



*MILLING MACHINE*  
**ACCESSORIES**

A1	HORIZONTAL / VERTICAL ROTARY TABLE	A53	MILLING VISE
A5~A6	TILTING ROTARY TABLE	A54~A55	FREE VISE / DRILL VISE QUICK / BENCH VISE
A7~A8	UNIVERSAL DIVIDING HEAD	A56~A57	UNIVERSAL WORK STOPPER / T SLOT CLAMP / UNIVERSAL VISE JAWS WITH WORK STOPPER / UNIVERSAL JAWS WITH SOFT STOPPER / PRISMA JAW
A9~A10	INDEXING SPACER		
A11	INDEX TABLE	A58	SCREW GUIDE BLOCK
A12	ECONOMICAL TYPE RAPID INDEX / SIMPLE ROTARY TABLE	A59~A64	52-PCS STEEL CLAMPING KIT / T SLOT NUT COUPLING NUT / FLANGE NUT CLAMPING STUDS STEP CLAMP / STEP BLOCK / C CLAMP CAST STEEL / SCREW JACK
A13	UNIVERSAL ANGLE CHUCK / ANGLE COLLET CHUCK		
A14	UNIVERSAL TILTING ROTARY TABLE	A65~A68	GROUND PARALLELS
A15~A18	HYDRAULIC MACHINE VISE	A69~A70	HEAVY DUTY TILTING PLATE / LIGHT DUTY TILTING PLATE
A19~A22	MILLING VISE / QUICK INDEX HOLDER / SUPER OPEN VISE	A71~A74	ANGLE PLATE / CROSS TABLE
A23~A24	TILTING VISE	A75~A78	U~CLAMP / PIVOT CLAMP / HAND DRIFT / EYE SHIELD / MILLING TABLE SLOT COVER / VEE BLOCKS / AUTO CENTER PUNCH / DRAW BAR / EXPANDABLE MACHINE GUARD COVER / COLLET RACK / TABLE SLOT PLATE / PARTS STORAGE
A25	SELF CENTERING VISE		
A26~A28	MODULAR PRECISION MACHINE VISE	A79	RIGHT ANGLE HEAD / HORIZONTAL MILLING ATTACHMENT
A29	LOCK~FIXED II PRECISION MACHINE VISE / FREE ANGLE VISE		
A30	DOUBLE CLAMP VISE / COMPOUND PRECISION VISE	A80~A82	POWER TABLE FEED / AIR POWER DRAWBAR / PRECISION SLOTTING HEAD
A31~42	MC POWER VISE	A83~A84	UNIVERSAL CUTTER GRINDER
A43	PRECISION MC POWER VISE	A85~A88	CHAMFERING & DEBURRING UNIT / EJECTOR PIN CUTTING~OFF UNIT / RODS PRECISION CUTTING~OFF AND END SURFACE GRINDING UNIT
A44	PRECISION COMPACT MC VISE		
A45~48	NC HYDRO MACHINE VISE	A89~A100	DUSTPROOF HALOGEN LAMP BEAM / CONCENTRATE LED LAMP
A49	SUPER~HIGH JAW MC VISE		
A50	PRECISION PNEUMATIC ANG~FIXED POWER VISE	A101~A102	WATER COOLANT PUMP
A51	CONVENIENCE TYPE MACHINE VISE / SUPER OPEN ANG-FIXED MACHINE VISE	A103~A104	HAND LUBRICATION PUMP
A52	QUICK SETTING VISE / HORIZONTAL MOVING QUICK VISE	A105~A106	SHOCK ABSORBER





# Horizontal / Vertical Rotary Table

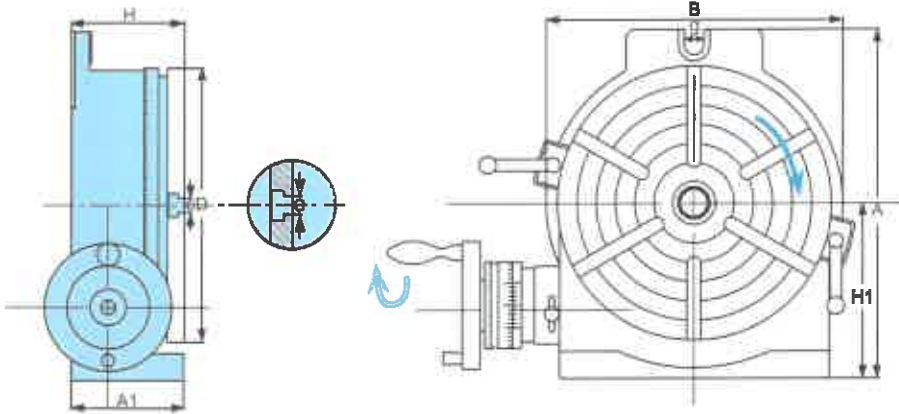


HV-4

HV-6, 8, 10, 12, 14, 16



New Model



SPECIFICATIONS	HV-4,6	HV-8, 10, 12, 14, 16
Degree per one handle rotation	4°	4°
Scale of micro collar	2'	1'
vernier reading	20"	10"
Gear ratio	1:90	1:90

## Specifications

ORDER NO.	Table			Base dimension		Width of T-slot	Bolt slots	The Load Capacity For Rotary Table	Center sleeve	Gross Weight(kg)		Meas. CFT	CODE NO.			
	Outer diameter	Height			Horizontal					Vertical	wooden case(W)			Carton(C)		
	A1	D	H	H1		A	B	e			Type			g	N.W.	G.W.
HV-4	58	110	72	80	138	118	11	⊕	35 KGS	18 KGS	MT-2	7KGS	7.5KGS (C)	0.3	1001-000	
HV-6	78	150	80	102	205	163	11	⊕	17	40 KGS	20 KGS	MT-2	12.1KGS	12.7KGS (C)	0.4	1001-001
HV-8	100	205	102	135	265	219	14	⊕	17	80 KGS	40 KGS	MT-3	24.7KGS	26.2KGS (C)	0.8	1001-002
HV-10	106	254	109	163	321	276	14	⊗	17	90 KGS	50 KGS	MT-3	35.5KGS	37.3KGS (C)	2	1001-003
HV-12	123	305	125	194	388	330	16	⊗	18	120 KGS	60 KGS	MT-4	58.7KGS	69.8KGS (W)	2.6	1001-004
HV-14	123	353	125	225	445	389	16	⊗	18	130 KGS	70 KGS	MT-4	76.61KGS	90.3KGS (W)	3.2	1001-005
HV-16	128	406	130	255	500	435	16	⊗	18	140 KGS	70 KGS	MT-4	106.4KGS	123.1KGS (W)	4.2	1001-006

## Optional Accessories (Details on page A3)



**Flange**



**Tallstock**



**Dividing Plate**



### EXAMPLE :



**W/O Flange**



**W/ Flange**



**W/ Dividing Plate**

## 3-Jaw Chuck For Rotary Table, Indexer

- Detail specification & Order NO. shown on page E7
- The Fixing Hole Is From Front



### ORDER NO.

- VSC-5A SUIT FOR BS-0 OR HV-6, VUT-6, VU-150
- VSC-6A SUIT FOR BS-1 OR HV-8, 10, VUT-6, VU-200
- VSC-7A, 8A SUIT FOR BS-2 OR HV-10, 12, 14, VUT-10, 12
- VSC-10A SUIT FOR HV-14, 16

## Reversible type

- For indexer, The fixing hole is from front.



### ORDER NO.

- VSK-6A SUIT FOR CS-6, CC-6
- VSK-8A SUIT FOR CS-8, CC-8
- VSK-12A SUIT FOR CC-12

- Our Tables are made of high density Meehanite inspect angle to assure the excellent quality and durability.
- Use excellent machining center to process. Spindle end be applied accuracy bearing. Can be assured to keep very steady under load cutting.
- Worm is hardened and ground. The ratio is 90:1. The work table is graduated a full 360° so that one turn of the handle moves the table through 4°. Micro collar is graduated in steps of 1' min. And vernier scale makes settings down to 10 seconds possible.
- These Rotary Tables are popular for their excellent performance, practical design and reasonable cost. They are widely used for circular cutting work, angle setting, boring, spot-facing and similar work.
- Indexing accuracy of direct Indexing mechanism Maximum cumulative spacing error 1 minute.
- Please choose Front-Lock 3 Jaw chuck only.

ITEM NO.	TESTING OBJECTIVE	VARIATION (PER 100mm) MAXIMUM TESTED
1	FLATNESS OF CLAMPING SURFACE (CONCAVE)	±0.015
2	PARALLELISM OF CLAMPING SURFACE TO BASE	±0.02
3	SQUARENESS OF CLAMPING SURFACE TO ANGLE FACE	±0.02
4	TRUE RUNNING OF CLAMPING SURFACE	±0.015
5	TRUE RUNNING OF CENTER HOLE MEASURED AT HOLE EDGE	±0.02

## A. DIVIDING PLATES

DP-2, 3, 4, 5



\*DP-2 set include index plate, crank handle, 3 pcs screw, sector, & U Washer.

1 carton with 1 set. Gross weight: 3.5kgs.

Meas.: 0.13 CFT.

Number of the holes of Dividing Plates

EXAMPLE :



ORDER NO.	SUIT FOR MODEL	WEIGHT kgs	CODE NO.
*DP-2	for HV-8, VU-200	4.5	1001-031
DP-3	for HV-10, 12, 14, 16, VUT-10, VUT-12	4.6	1001-032
DP-4	for CS-6, 8	4.6	1001-033
DP-5	for VU-300	4.6	1001-034

Holes Number

<b>A-Plate</b>	26, 30, 34, 38, 41, 44, 47, 51, 57 28, 32, 37, 39, 43, 46, 49, 53, 59
<b>B-Plate</b>	61, 67, 71, 77, 81, 87, 91, 97 63, 69, 73, 79, 83, 89, 93, 99

## A. DIVIDING PLATES

DP-1



Holes Number

A-Plate	15, 16, 17, 18, 19, 20
B-Plate	21, 23, 27, 29, 31, 33
C-Plate	37, 39, 41, 43, 47, 49

EXAMPLE :

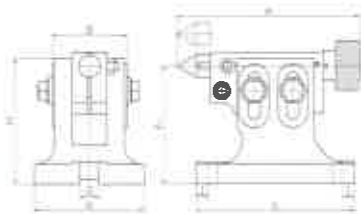


ORDER NO.	SUIT FOR MODEL	WEIGHT kgs	CODE NO.
*DP-1	for HV-4, HV-6, VUT-6, VU-100, 150	1.4	1001-030

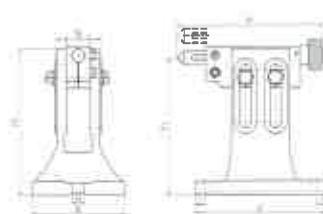
## B. TAILSTOCK



TS-1



TS-1



TS-2~TS-4



TS-3

Tailstock

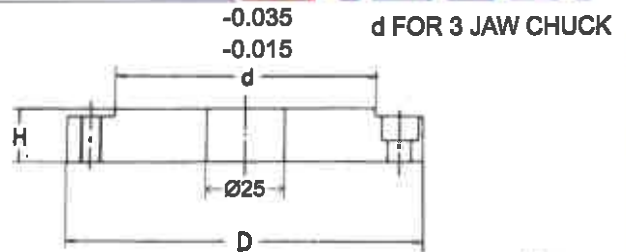
Unit:mm

ORDER NO.	adjustable		SUIT FOR MODEL	G.W. kgs	Meas. CFT	CODE NO.
	highest	lowest				
TS-1	108	80	HV-4, HV-6, VSI-4, VSI-5, BS-0, VUT-6, VU-100, VU-150	3.9	0.4	1001-022
TS-2	145	115	BS-1, CC-6 CS-6, HV-8	5.5	0.4	1001-023
TS-3	205	130	CS-8, HV-10, HV-12, CC-8, VUT-10, VUT-12, VU-200	8.1	0.4	1001-024
TS-4	260	182	HV-14, CC-12 HV-16	11.9	0.7	1001-025

# Optional For Rotary Table



## C. FLANGE



- FLange for VSC-A TYPE
- FLT-103 For VSC-3F
  - FLT-104 For VSC-4F
  - FLT-0 For VSC-5F
  - FLT-1 For VSC-6F
  - FLT-2 For VSC-7F
  - FLT-3 For VSC-8F
  - FLT-103A For VSC-3A
  - FLT-104A For VSC-4A
  - FLT-0A For VSC-5A
  - FLT-1A For VSC-6A
  - FLT-2A For VSC-7A
  - FLT-3A For VSC-8A

Flange Unit:mm

ORDER NO.	D	d	H	SUIT FOR MODEL	WEIGHT kgs	CODE NO.
FLT-103	90	60	20	HV-4 VU-100	0.71	1001-036
FLT-104	113	80	20	HV-6 VU-150, VUT-6	1.0	1001-037
FLT-0	138	100	20	HV-6, 8 VU-150, 200, VUT-6	1.9	1001-040
FLT-1	170	130	21	HV-8, 10 VU-200, VUT-10	3.3	1001-041
FLT-2	195	155	24	HV-10, 12, 14 VUT-10, 12	5.2	1001-042
FLT-3	210	160	24	HV-10, 12, 14, 16 VUT-12	4.9	1001-043

Unit:mm

ROTARY TABLE

ORDER NO.	D	d	H	SUIT FOR MODEL	T-NUT SIZE	BOLT	WEIGHT kgs	CODE NO.
FLT-103A	90	55	20	HV-4 VU-100	M8x10 3412M	M8x20L	0.71	1001-044
FLT-104A	113	72	20	HV-6 VU-150, VUT-6	M8x10 3412M	M8x20L	1.0	1001-045
FLT-0A	138	100	20	HV-6, 8 VU-150, 200, VUT-6	M8x10 3412M	M8x20L	1.9	1001-046
FLT-1A	170	130	21	HV-8, 10 VU-200, VUT-10	M10x14 SPECIAL SIZE	M10x25L	3.3	1001-047
FLT-2A	195	155	24	HV-10, 12, 14 VUT-10, 12	M10x14 SPECIAL SIZE	M10x25L	5.2	1001-048
FLT-3A	210	165	24	HV-10, 12, 14, 16 VUT-12	M10x16 SPECIAL SIZE	M10x30L	4.9	1001-049

## D. 3 JAW CHUCK

### 3-Jaw Chuck For Rotary Table, Indexer Economical Type

● Detail specification & Order NO. shown on page E7



- ORDER NO.**
- VSC-3A SUIT FOR HV-4, VU-100(FLT-103A)
  - VSC-5A SUIT FOR BS-0 OR HV-6, VUT-6, VU-150(FLT-0A)
  - VSC-6A SUIT FOR BS-1 OR HV-8, 10, VUT-6, VU-200(FLT-1A)
  - VSC-7A, 8A SUIT FOR BS-2 OR HV-10, 12, 14, VUT-10, 12(FLT-2A, FLT-3A)
  - VSC-10A SUIT FOR HV-14, 16



### Reversible type

For indexer, The fixing hole is from front.

- ORDER NO.**
- VSK-6A SUIT FOR CS-6, CC-6
  - VSK-8A SUIT FOR CS-8, CC-8
  - VSK-12A SUIT FOR CC-12

ORDER NO.	D-Size	d1	d2	THREAD	SUIT FOR MODEL
VSC-5A	130mm(5")	115	100	3-M8	BS-0, HV-6, VUT-6, VU-150
VSC-6A	160mm(6")	142	130	3-M8	HV-8, HV-10, VUT-6, VU-200
VSC-7A	190mm(7 1/2")	172	155	3-M10	BS-2, HV-10, 12, 14, VUT-10, 12
VSC-8A	200mm(8")	180	165	3-M10	
VSC-10A	250mm(10")	225	206	3-M12	HV-14, 16

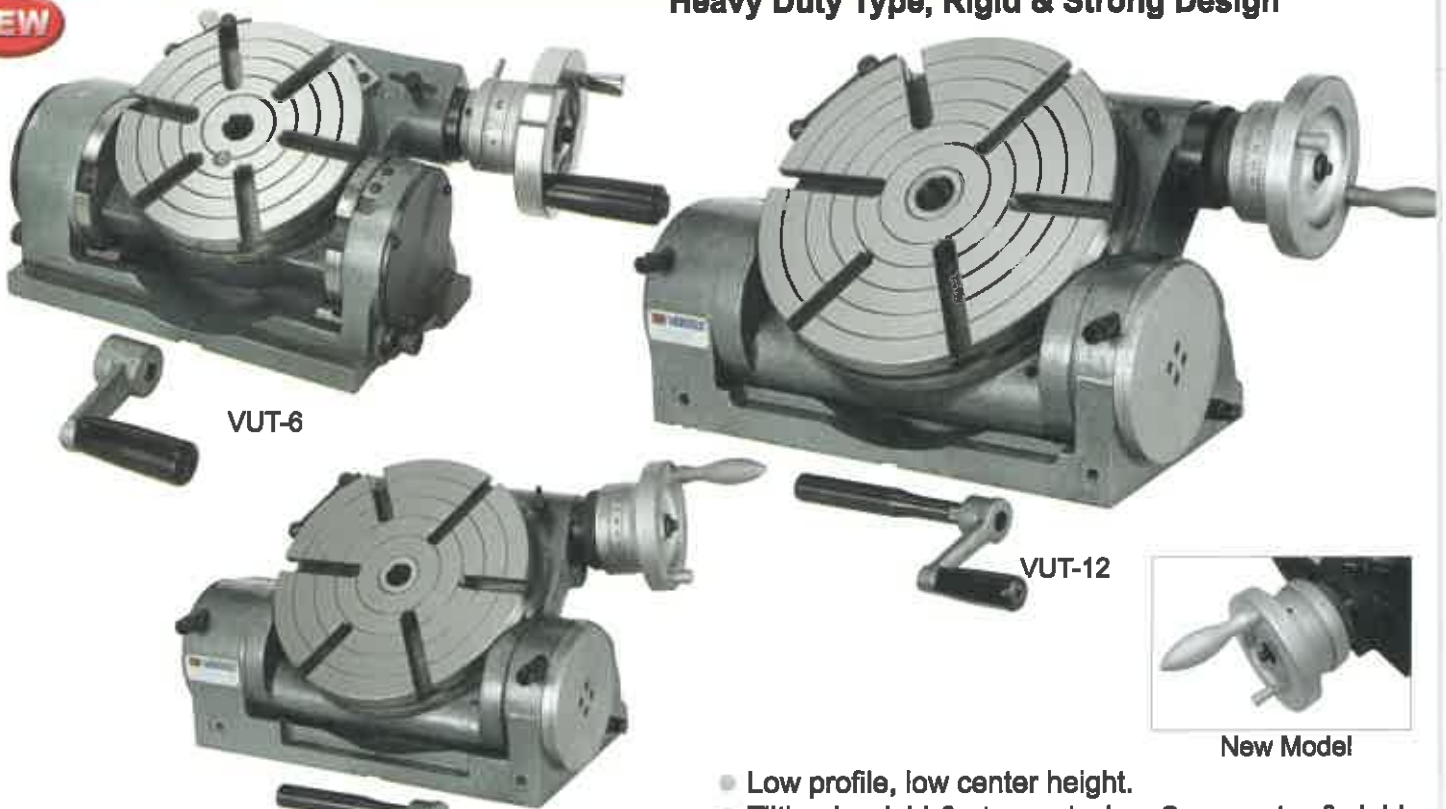
ORDER NO.	D-Size	d1	d2	THREAD	SUIT FOR MODEL
VSC-6A	160mm(6")	142	130	3-M8	CS-6, CC-6
VSC-8A	200mm(8")	180	165	3-M12	CS-8, CC-8
VSC-12A	315mm(10")	285	260	3-M16	CC-12

# Tilting Rotary Table



Heavy Duty Type, Rigid & Strong Design

NEW



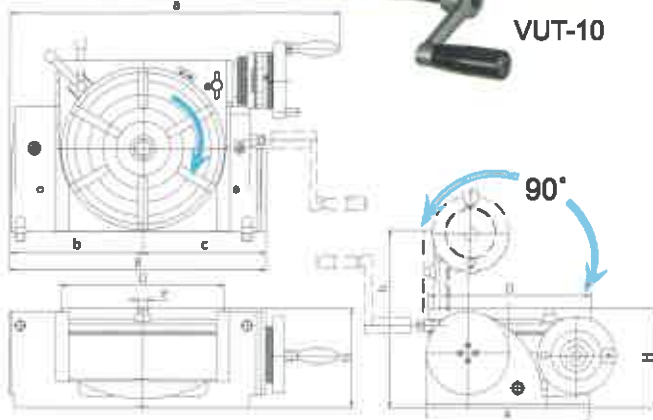
VUT-6

VUT-12

VUT-10



New Model



- Low profile, low center height.
  - Tilting by rigid & strong design, 2 supporter & rigid clamping system construction.
  - Minimum set-up time.
  - Tilting angle can adjusted by worm & worm gear system.
  - Accurate and built for use in milling, boring and other machines.
  - Indexing, facing and other operations can be done rapidly
  - with extreme precision.
  - Worm shafts are hardened and ground.
- Indexing can be done with optional dividing plates.

## Specifications

ORDER NO.	TABLE DIAMETER & TABLE HEIGHT			MOUNTING SURFACE		OVER ALL SIZE			T-SOLT WIDTH	CENTER HOLE	CENTER HEIGHT (Tilted at 90°)	WEIGHT (kgs)	CODE NO.
	D	H	h	A	B	a	b	c	e				
VUT-6	150	115	165	180	268	380	143	125	11	MT-2	90	23.5	1001-014
VUT-10	250	155	275	255	397	495	210	187	14	MT-3	150	75.5	1001-015
VUT-12	300	178	319	300	447	551	235	212	16	MT-4	169	108	1001-016

OPTIONAL : Detail see A3

FLANGE & DP-1, DP-3



## DIVIDING PLATES

ORDER NO.	SUIT FOR MODEL	WEIGHT (kgs)	CODE NO.
DP-1	for VUT-6	1.4	1001-030
DP-3	for VUT-10, VUT-12	4.6	1001-032

## TAILSTOCK



TS-3

ORDER NO.	Adjustable		SUIT FOR MODEL	G.W. (kgs)	MEAS CFT	CODE NO.
	highest	lowest				
TS-1	108	80	VUT-6	3.9	0.4	1001-022
TS-3	205	130	VUT-10, VUT-12	8.1	0.4	1001-024

Unit:mm

MAIN SPECIFICATIONS		VUT-6	VUT-10 VUT-12
TILTING	Degree per one handle rotation	6°	1°
	vernier reading	1'	2'
	Scale of micro collar	5'	1'
TABLE	Degree per one handle rotation	4°	4°
	Scale of micro collar	2'	1'
	vernier reading	20"	10"
	Gear ratio	1:90	1:90

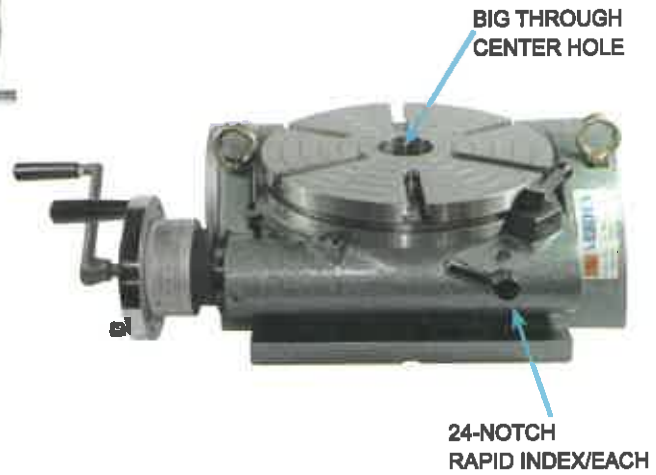


# Multiple Tilting Rotary Table

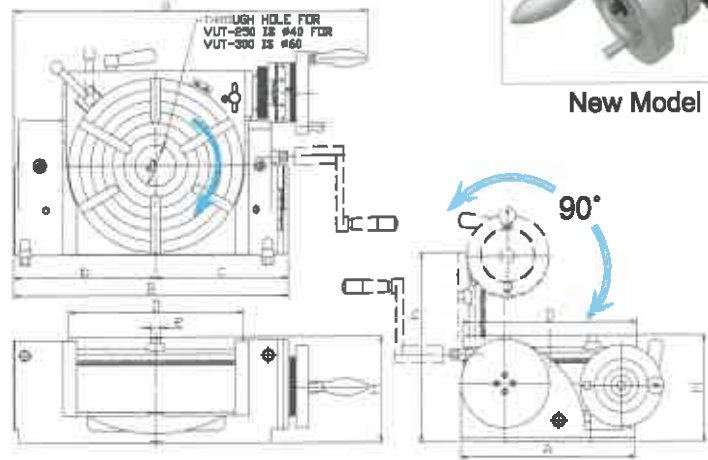


**NEW**

1. BIG THROUGH HOLE DESIGN TYPE 250 IS Ø40, TYPE 300 IS Ø60
2. WITH 15°, 24 DIVISION DIRECT INDEX.
3. HEAVY DUTY TYPE, RIGID & STRONG DESIGN.



New Model



- The Feature is same as VUT-6, 10, 12 type.
- For the long bar & other work piece need BIGGER BORE size.
- Multiple purpose.
- Fast dividing function : 15° division by handle x 24/360°
- Improve efficiency, save cost.
- Upgrade your millig machine to speed up production.

## Specifications

ORDER NO.	TABLE DIAMETER & TABLE HEIGHT			MOUNTING SURFACE		OVER ALL SIZE			T-SOLT WIDTH	CENTER HOLE	CENTER HEIGHT (Tilted at 90°)	WEIGHT (kgs)	CODE NO.
	D	H	h	A	B	a	b	c	e				
VUT-250	250	155	275	255	397	495	210	187	14	Ø45	150	75.5	1001-015A
VUT-300	300	178	319	300	447	551	235	212	16	Ø65	169	108	1001-016A

**OPTIONAL** : Detail see A3

## FLANGE & DP-3



TS-3



## DIVIDING PLATES

ORDER NO.	SUIT FOR MODEL	WEIGHT (kgs)	CODE NO.
DP-3	for VUT-250, VUT-300	4.6	1001-032

## TAILSTOCK

ORDER NO.	Adjustable		SUIT FOR MODEL	G.W. (kgs)	MEAS CFT	CODE NO.
	highest	lowest				
TS-3	205	130	VUT-250, VUT-300	8.1	0.4	1001-024

Unit:mm





# Semi-Universal Dividing Head



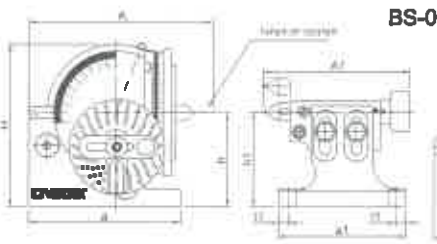
# VERTEX®

## Standard Accessories

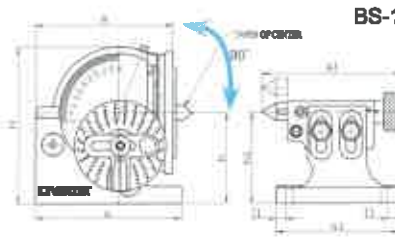
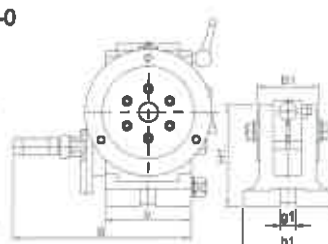


### Dividing Plate A, B, C

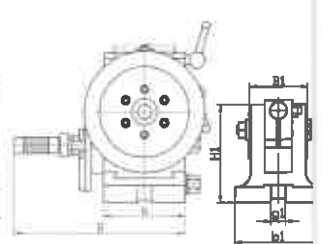
Plate A	15	16	17	18	19	20
Plate B	21	23	27	29	31	33
Plate C	37	39	41	43	47	49



BS-0



BS-1



### BS-0,1 (Head-stock):

Unit:mm

ORDER NO.	A	B	H	I	a	b	g	h	TAPER OF CENTER	SPINDLE THROUGH HOLE	CODE NO.
BS-0	177	188	173	13	160	91	16	100	MT-2	18	1001-050
BS-1	245	230	220	19	205	114	16	128	MT-3	20	1001-051

### BS-0,1 (Tail-Stock):

Unit:mm

ORDER NO.	A1	B1	H1	I1	a1	b1	h1	g1	N.W. (KG)
BS-0	155-180	64	107	11	134	94	80-108	16	4
BS-1	170-195	64	150	11	155	110	150-115	16	5.3

- Dividing Head can divide in any angle by the direct, indirect, or different methods. The ratio between the worm and the worm gear is 40:1. Indirect indexing of all numbers from 2 to 50 and many numbers up to 380 possible
- Hardened and ground spindle is rigidly held in a taper roller bearing. Worm is hardened and ground also.
- The swivel head can be locked of any angle from 10° below horizontal to 90° vertical-precision fitting to base assures smooth rotation.
- All models have threaded spindle nose and 24 hole dividing plate with easy conversion to fast direct indexing on numbers 2, 3, 4, 6, 8, 12, and 24.
- Accurate precision, little backlash, fine appearance and strong structure so can assure smooth rotation.

THE CHUCK FIXING HOLE IS FROM FRONT.



BS-0-J-5 is BS-0 fitted with 5" 3-Jaw Chuck

**OPTIONAL**  
The Chuck Fixing Hole Is From Front.  
F. TYPE



BS-0T 1 1/2 - 8TPI TYPE  
BS-0T 1 1/8 - 12TPI TYPE  
BS-1T 1 1/2 - 8TPI TYPE  
Call VERTEX to check old model's stock.

ORDER NO.	N.W. (kgs)	G.W. (kgs)	Meas. CFT	Applicable Chuck	CODE NO.
BS-0	19	(C)20	0.8	5" (Ø130mm)	1001-050
BS-1	32	(C)33	1.3	6" (Ø160mm)	1001-051
BS-0-J-5	24	(C)25	0.8	WITH 5" CHUCK	1001-053
BS-1-J-6	42	(C)45	1.3	WITH 6" CHUCK	1001-054

# Universal Dividing Head

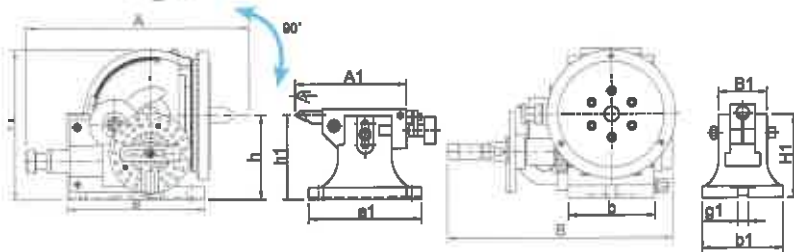


BS-2

## Standard Accessories



DIVIDING HEAD



**BS-2-J-8**  
THE CHUCK FIXING  
HOLE IS FROM FRONT.



**BS-2T TYPE**  
Thread Spindle: 2 1/4" - 8tpl  
Call To Check Old Model's Stock.

## BS-2, 2A (Head-stock)

Unit:mm

ORDER NO.	A	B	H	I	a	b	g	h	Taper of center	SPINDLE THROUGH HOLE	CODE NO.
BS-2	359	340	235	20	212	135	16	134	MT-4	25	1001-052
BS-2A	285	202	237	20	213	134	16	134	MT-4	25	1001-057

ORDER NO.	WITH CHUCK	WEIGHT (kgs)	CODE NO.
BS-2		65	1001-052
BS-2-J-6	6"	78.5	1001-055
BS-2-J-8	8"	80	1001-056
BS-2A		47.5	1001-057
BS-2A-J-6	6"	57	1001-058
BS-2A-J-8	8"	63	1001-059

## BS-2, 2A (Tail-stock)

Unit:mm

ORDER NO.	A1	B1	H1	I1	a1	b1	h1	g1	N.W. (KG)
BS-2	135-175	75	130	15	175	125	120-145	16	10
BS-2A	218	74	139	15	175	124	134	16	10

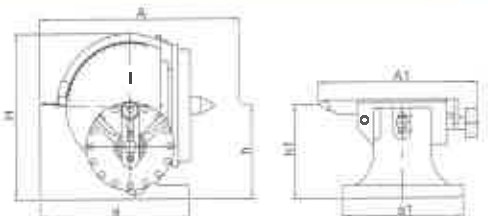
ORDER NO.	Gross Weight kg	Meas. CFT	Applicable Chuck
BS-2	(C)65	3.4	6" OR 8" F TYPE
BS-2A	(C)47.5	1.24	6" OR 8" F TYPE

# Semi-Universal Dividing Head BS-2A

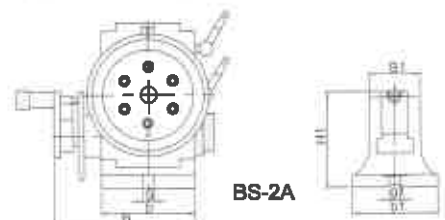
**BS-2A**  
Semi-UNIVERSAL DIVIDING HEAD W/O CHANGE GEAR TYPE

**NEW**

## Standard Accessories



BS-2A COMES WITH A TAIL STOCK, A SET OF DIVIDING PLATE, A SET OF CARRIER CLAMP, A 3 JAW PLATE, A CENTER  
BS-2A BODY STRUCTURE IS SAME AS BS-2 WITHOUT CHANGING GEAR ARBOR OR BRACKET. OTHER ACCESSORIES ARE SAME AS BS-2.



BS-2A

**BS-2A**



### Standard Accessories



Masking Plate



Face Plate

### Optional Accessories

The same as Rotary table  
Please see page A3

TS-2 for CS-6  
TS-3 for CS-8

## CS-8 with VSK-8A 3-JAW CHUCK MASKING PLATE & FACE PLATE

This product combines the advantages of the Super Index with those of a worm-gear index. When mounted on a milling, boring or other machine tool it can carry out single-purpose indexing and indirect indexing using the worm-drive mechanism. Disengaging the worm drive the 24-notch master plate permits 2, 3, 4, 6, 8, 12 and 24 dividing in the same manner as the Simple Index. When the chuck is removed, the unit can be used as a horizontal and vertical type rotary table. The operating handle to rotary table worm gear reduction ratio is 1:90. The operating handle collar is graduated in one minute, and readings down to ten seconds can be set on the vernier.

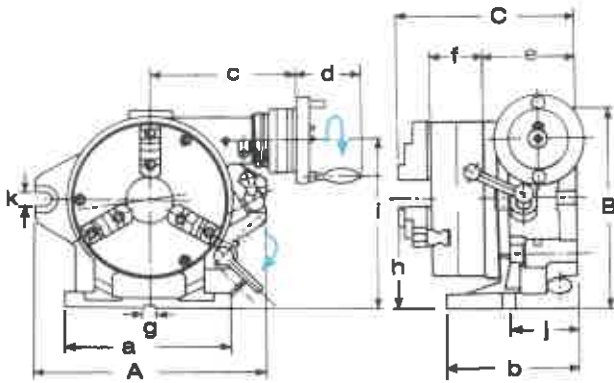
- Super spacer index include 3 jaw chuck, 10"/250mm face plate, masking plates 2, 3, 4, 6, 8, 12.



DP-4



The state of CS-8 fitted with Face Plate & Dividing Plate



### Specifications

SPECIFICATIONS	CS-6 CC-6	CS-8 CC-8
Degree per one handle rotation	4°	4°
Scale of micro collar	2'	1'
vernier reading	20"	10"
Gear ratio	1:90	1:90

Unit:mm

ORDER NO.	Numbers of dividing	Chuck Through Hole				Face plate		A	B	C	a
		Outer diameter	Inner jaw	Outer jaw	Inner dia	Outer dia	Thickness				
CS-6	2, 3, 4, 6, 8, 12, 24	167 VSK-6A	4~42	10~156	44	203	50	250	235	221	220
CS-8		210 VSK-8A	4~62	10~180	63	254	58	310	285	243	225

Unit:mm

ORDER NO.	b	c	d	e	f	g	h	i	j	k	Gross Weight kgs	Meas. CFT	CODE NO.
CS-6	150	184	82	112	66	16	123	186	80	18	(C)43.6	1.2	1001-060
CS-8	160	201	82	125	75	16	155	232	90	18	(W)78.3	3.1	1001-061

(W)Wooden Case (C)Carton Case



**CC-12, Ø105**  
**BIG THROUGH HOLE DESIGN**



**CC-8**



**Masking Plate**

- The center through hole is big to be suitable for the large and long workpiece.
- Hardened and ground 24 position master plate, can index the special angle of 15 with excellent accuracy.
- CS-Type can be used with 2 pcs type 3-Jaw Chuck. Especially, it does similar work. as rotary table when it match with face plate.
- Rapid indexing and easy operation. It's a sharp equipment for mass-production.
- Simple index include 3-jaw chuck, Masking Plates 2, 3, 4, 6, 8, 12
- Used the key guide block, the center can be corrected quickly and accurately.
- CC-6 with VSK-6A chuck front fixing hole type.
- CC-8 with VSK-8A chuck front fixing hole type.
- CC-12 with VSK-12A chuck front fixing hole type.
- CC-12A with VSK-12A chuck economical chuck.

CS-6 with VSK-6A chuck front fixing hole type.  
CS-8 with VSK-8A chuck front fixing hole type.

FIG. (I) CC-6, 8

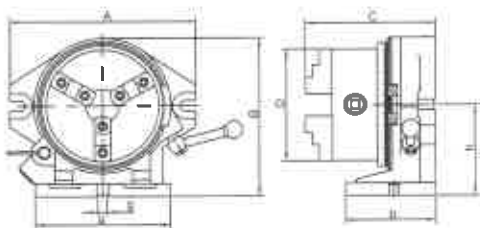
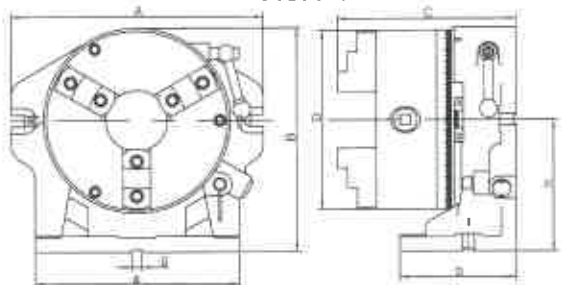


FIG. (II) CC-12



STANDARDS OF ACCURACY for Simple Index for Super-Dax.		
NO.	Testing Objective	Tolerances Per 100mm Permitted Max.
1	Parallelism of table surface to base	0.02
2	True running of axial movement of table surface	0.03
3	True running of center boss	0.02
4	Squareness of base to angle face	0.02

### Optional Accessories

#### Tailstock

- TS-2 FOR CC-6
  - TS-3 FOR CC-8
  - TS-4 FOR CC-12
- please see page A3



### Specifications

Unit:mm

ORDER NO.	Fig.	Dividual number	A	B	C	D	a	b	h	Inner jaw	g	Outer jaw	Diameter of hole (turret)	Diameter of hole (chuck)	Gross weight kgs	Meas. CFT	CODE NO.
CC-6	I	2, 3, 4, 6	253	225	179	160	187	115	130	Ø55~Ø145	16	Ø3~Ø160	44	44	(C)29.5	0.9	1001-062
CC-8	II	8, 12, 24	318	274	209	200	230	155	157	Ø65~Ø200	16	Ø4~Ø200	63	58	(C)51.5	1.3	1001-063
CC-12	II	2, 3, 4, 6	432	388	293	315	350	200	228	Ø100~Ø315	16	Ø10~Ø315	106	105	(W)163	3.6	1001-066
CC-12A		8, 12, 16, 24, 48															1001-066A



2 PCS HIRTH Coupling

## VIT-450~1200 PICTURE

ORDER NO.	VIT-300-15	VIT-450-1	VIT-600-1	VIT-700-1			
		VIT-450-5	VIT-600-5	VIT-700-5	VIT-800-5	VIT-1000-5	VIT-1200-5
Table size LxW (mm)	300x300	450x450	600x600	700x700	800x800	1000x1000	1200x1200
Height (mm)	160	170	200	220	280	300	340
Spindle hole (mm)	-	ø30	ø40	ø40	ø60	ø60	ø80
T-slot (mm)	14	18	20	20	22	22	22
Table rotating	Clockwise and counterclockwise						
Table Lifting up & Clamp down stroke (mm)	5	5	5	5	5	8	8
Driving	Longitudinal	Manual					
	Revolving	Air Pressure 5~8kgs/cm <sup>2</sup>					
Number of division (degree)	15°			1° or 5°			
Division (sec.) Accuracy	±3						
Max. load weight in theory (kgs)	1200	2400	3400	3400	4500	6000	7000
Allowable load weight (kgs)	500	1000	2000	2000	3000	5000	6000
Clamping capacity (kgs)	-	2200	3200	3200	5400	5400	8100
N.W. (kgs)	94	205	400	600	900	1200	2000
CODE NO. 1°	1001-070(15)	1001-071	1001-072	1001-073			
CODE NO. 5°		1001-081	1001-082	1001-083	1001-084	1001-085	1001-086

- The body is FC-35 cast iron, durable and will last longer without deformation.
- Clamping/Unclamping by pneumatic, easy operation.
- Powerful clamping design, allow heavy cutting and boring.

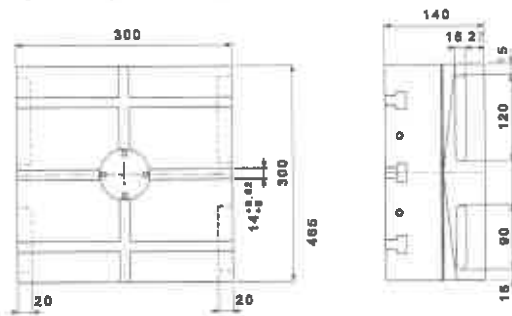
- Build-in 2 pieces hirth coupling for positioning, indexing accuracy +/-3 sec, ensure a long-term operation.
- Suitable for the high accuracy machining such as Boring-Milling, Grinding-Machine.

## DIMENSION

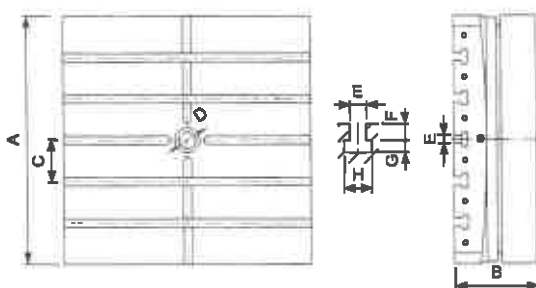
### VIT-300 (PICTURE)



VIT-300



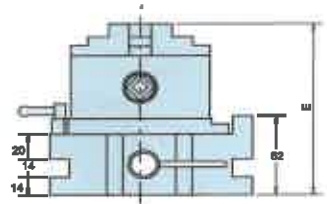
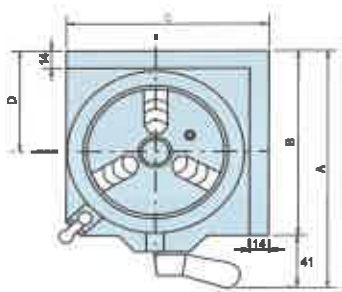
### VIT-450~1200



	VIT-450	VIT-600	VIT-700	VIT-800	VIT-1000	VIT-1200
<b>A</b>	450	600	700	800	1000	1200
<b>B</b>	170	200	220	280	300	340
<b>C</b>	100	100	125	100	150	200
<b>D</b>	30	40	40	60	60	80
<b>E</b>	18	20	20	22	22	22
<b>F</b>	16	20	20	23	23	23
<b>G</b>	12	14	14	15	15	15
<b>H</b>	28	35	35	38	38	38



COLLET INDEXER NON ECONOMICAL

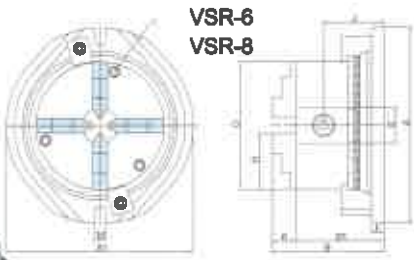


- 3 JAW CHUCK VSC-4A, for VSI-4 / VSC-5A for VSI-5, the big range clamping capacity  $\varnothing 3 - \varnothing 100$ , it's better than collet fixing type.
- Simple & rapid operation.
- Dividual number 24-notch ( $15^\circ$  each)
- Table scale  $1^\circ$ , for angular indexing.
- Table bore 30mm.
- Horizontal / vertical & 2 direction
- Suit for milling & drilling machine using.
- Optional: tailstock TS-1, Please see page A2

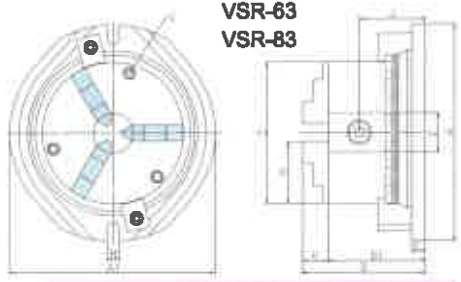
ORDER NO.	A	B	C	D	E	Through Hole	kgs	CODE NO.
VSI-4	187	146	146	80	135	$\varnothing 30$	10.5	1001-064
VSI-5	202	161	161	87	142	$\varnothing 30$	14.5	1001-065

**Simple Rotary Chuck**

NEW



VSR-6 + VPS-6A 4JAW CHUCK  
VSR-8 + VPS-8A 4JAW CHUCK







VSR-63 + VSC-6A 3JAW CHUCK  
VSR-83 + VSC-8A 3JAW CHUCK



VSR-63

- 4-jaw chuck (include reversable and removable jaw) is designed with swivel base for multifunctional purpose.
- VERTEX simple rotary chuck can be placed and fixed on your desired position.
- $360^\circ$  vernier scale: smooth swival motion and easy locking by screws.
- Both horizontal and vertical position could be used on milling and machining center.

ORDER NO.	FOR SHAPE	A	A1	B	B1	D	E	F	H	I	J	K	M	kgs	CODE NO.
VSR-6		245	233	139	110	160	45	15	70	3-M8	69	29	14	18	1001-068
VSR-8		305	270	159	125	200	65	20	86	3-M10	75	34	18	30.5	1001-067
VSR-63		245	233	139	110	160	45	15	70	3-M8	69	29	14	18	1001-068A
VSR-83		305	270	159	125	200	65	20	86	3-M10	75	34	18	30.5	1001-067A



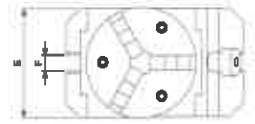
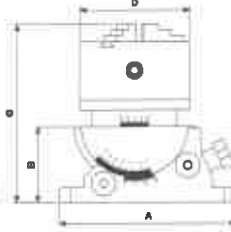
# Precision Universal Angle Chuck



# VERTEX®

With VSC-4 Chuck

**NEW**



- With VSC-4 3-Jaw chuck.
- O.D. clamping  $\varnothing 3-90$  mm,
- I.D. clamping  $\varnothing 32-84$  mm.
- Tolerance  $\pm 0.01$ mm/100mm.
- 2 axis with angle scale
- For angle setting
- Chuck indexing / Rotating setting by scale.
- Tilting Features same as VUA series, Page B6.
- Load Capacity :25Kgs



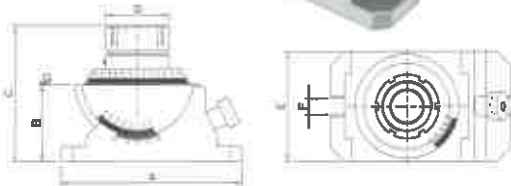
ORDER NO.	A	B	C	D	E	F	G.W (kgs)	CODE NO.
VUA-100J	180	77	181	112	110	16	14	2003-080



# Precision Universal Angle Collet Chuck

Capacity  $\varnothing 3-\varnothing 30$

**NEW**



- Tolerance  $\pm 0.01$ mm/100mm.
- 360° horizontal swivel, 45° vertical tilting.
- Suit for multi - angle cutting.
- Simple way for mass production.
- Hardness : HRC52 $\pm 2$ '
- Load Capacity :25Kgs



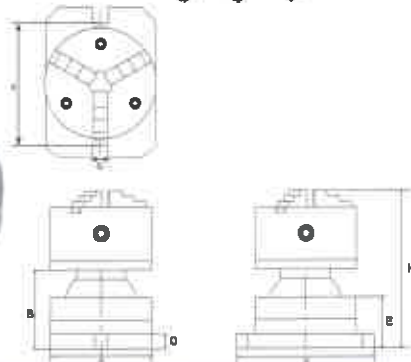
Standard Accessories: With 15pcs ER-40 Collet (4, 5, 6, 8, 10, 12, 13, 15, 16, 18, 20, 21, 22, 25, 26)

ORDER NO.	A	B	C	D	E	F	G.W (kgs)	CODE NO.
VUA-ER40	180	77	136	63	110	16	12	2003-065



# Free Angle Rotary Chuck

**NEW**



- With VSC-4, VSC-5, 3-JAW Chuck.
- O.D. Clamping  $\varnothing 3-90$  mm (VSC-4)
- O.D. Clamping  $\varnothing 3-110$  mm (VSC-5)
- I.D. Clamping  $\varnothing 32-84$  mm (VSC-4)
- I.D. Clamping  $\varnothing 35-100$  mm (VSC-5)

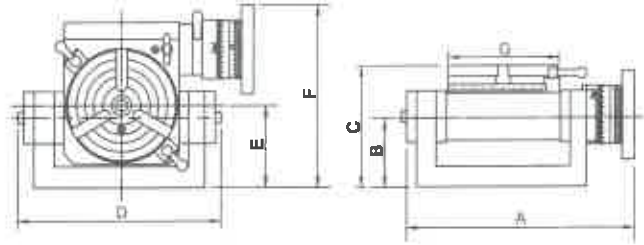
### Features:

- Quick setting
- Operating is very quick and easy, can increase so much working efficiency than you can image.
- 360° Rotation, Tilting 30°
- For non-normal angle setting.
- Its swivelling and tilting features with chuck clamping make this unit for round & square, angular drilling machining on various machine tools or for bench work table.



ORDER NO.	A	B	C	D	E	F	G	H	Weight (kgs)	CODE NO.
VAV-4J	140	120	20	190	72	158	17	203	16	1002-217
VAV-5J	140	120	20	190	72	158	17	203	17	1002-218

# Universal Tilting Rotary Table



TILTING ROTARY TABLE

## OPTIONAL:

Please see page A3

### 1. TAILSTOCK      2. DIVIDING PLATE

ORDER NO.	CODE NO.	ORDER NO.	CODE NO.
TS-1	1001-022	*DP-1 for VU-100, 150	1001-030
TS-3	1001-024	*DP-2 for VU-200	1001-031

- Tilting range 0°-90° degrees from horizontal to vertical position, It is high rigidity.
- Minimum Set-up time: It has two screws to lock setting. Low profile body for bigger capability.
- Worm is hardened and ground. The ratio is 90:1. The work table is graduated a full 360° so that of the handle moves the table through 4°. Micro collar is graduated in steps of 2' min.
- The tailstock & Dividing plates are optional. The sizes is same as the rotary table, please see page A2.
- For arc or index cutting at milling machine, Grinding machine or drill Machine.....

ORDER NO.	A	B	C	D	E	F	G	SUITABLE TAILSTOCK	SUITABLE DIVIDING PLATE	WEIGHT kgs/cuft	CODE NO.
VU-100	228	68	117	202	80	177	110	TS-1	DP-1	13.5 / 1.5	1001-011
VU-150	266	75	140	246	90	216	150	TS-1	DP-1	21.5 / 2.0	1001-012
VU-200	429	111	177	432	141	283	205	TS-3	DP-2	46 / 2.5	1001-013

# Big Through Hole / Fast Indexing Rotary Table

**NEW**




### Feature:

- Center Bore =  $\varnothing 65\text{mm}$
- For the long bar & other work piece need BIGGER BORE size.
- Multiple purpose.
- Fast dividing function : 15° division by handle x 24/360°
- Improve efficiency, save cost.
- Upgrade your millig machine to speed up production.

SPECIFICATIONS	HVD-400
Degree per one handle rotation	4°
Scale of micro collar	1'
vernier reading	10"
Gear ratio	1:90

### specifications

ORDER NO.	Through Center hole	Numbers of dividing	Table			Base dimension			Width of T-slot		Bolt slots	The load capacity for rotary table		Weight (kg)		CODE NO.	
			Outer diameter		Height	H1	A	B	e	TYPE		g	Horizontal	Vertical	N.W.		G.W
			A1	D													
HVD-400	$\varnothing 65$	15°	128	406	130	255	500	435	16		18	140kgs	70kgs	122	1001-110		



# Hydraulic Machine Vise



PATENT

- New design: Adjustable pressure device.
- Jam proof system.
- Hydro limit proof.
- Screw shaft broken proof



VH-6

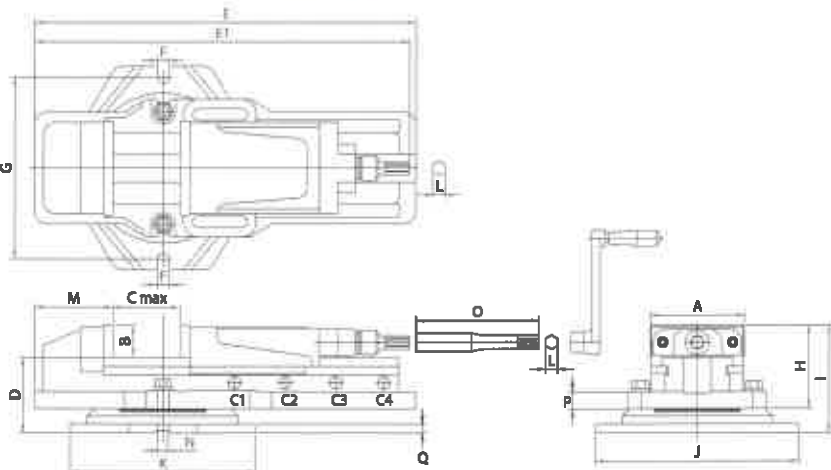


VH-12



Hydraulic controller: provide stable pressure, Hydro indexer. Protect the hydro system. Hydro limit proof reference scale.

- New design: jam proof system: prevent wrong clamping force sticks the vise.
- Constructed for milling, drilling, shaping, grinding and many other machine shop applications.
- Sliding bed ways flame hardened and ground.
- Concealed spindle for protection against chips and dirt.
- Hydraulic-booster system for maximum clamping pressure with minimum force.
- Quick of clamping & locking and easy of operation.
- Accuracy within 0.02mm.
- Furnished with or without swivel base.
- Hydraulic-booster system is guaranteed for using 1 years limited.
- The hydraulic oil number is #68.
- Hydro line - one scale indicate about 1/3 of the max. clamp force.
- In order to ensure the accuracy when using it' better that don't put swivel base together



## Order No. & Dimensions



ORDER NO.	A	B	C max	Opening Size For Capacity				D	E	E1	F	G	H	I	J	K	L	M	N	O	P	Max. Clamp Force (kgf)	G.W. (kgs)	CFT (cm)	CODE NO.
				C1	C2	C3	C4																		
VH-4	108	36	175	0-63	61-120	118-175		98	443	583	14	235	95	135	270	240	14	110	16	156	22	2500	28	45x25x16	1002-001
VH-5	132	48	210	0-75	73-150	148-210		113	550	703	17	253	118	161	290	263	19	124	16	165	22	4500	47	56x28x18	1002-002
VH-6	151	52	300	0-100	98-200	198-300		124	620	800	19	298	135	176	332	300	19	126	16	200	30	4500	63	65x34x22	1002-003
VH-6L	151	52	300	0-100	98-200	198-300	298-355	124	620	800	19	298	135	176	332	300	19	126	16	200	30	4500	63	65x34x22	1002-007
VH-8	204	62	300	0-100	98-200	198-300		144	680	857	17	342	162	206	375	350	19	155	16	200	30	7500	110	71x38x25	1002-004
VH-8L	204	62	400	0-100	98-200	198-300	298-400	144	795	950	17	342	162	206	375	350	19	155	16	200	30	7500	108	84x42x30	1002-005
VH-12	305	72	375	0-75	73-175	173-275	273-375	144	795	950	17	342	162	206	375	350	19	170	16	200	30	7500	138	84x35x27	1002-006

# Tilting Hydraulic Machine Vise **VERTEX**

PATENT

## New Design

- Jam proof system
- Great smooth operation
- Hydro limit proof.
- Screw shaft broken proof



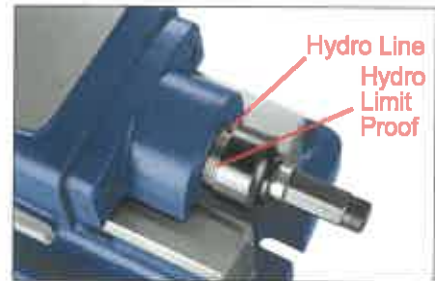
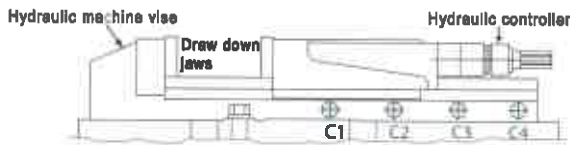
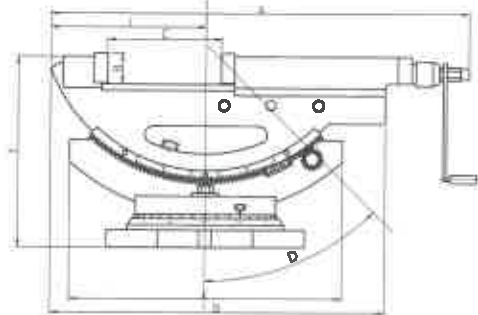
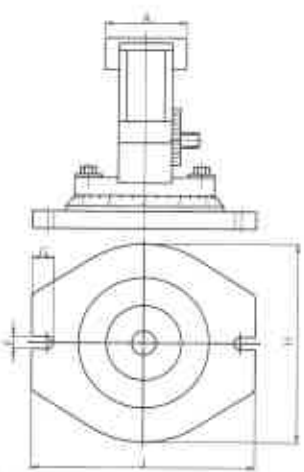
VHT-4



VHT-6

TILTING ADJUSTABLE BY GEAR SYSTEM

50°



Hydraulic controller: provide stable pressure, hydro indexer. Protect the hydro system.

- The same as characters of VH type. Swivel base same as VH type.
- Tilting seat set by two locking screws, works in high stability.
- Angle setting ranges from 0°~50°. Tilting degrees graduated for easy reading.
- Swivel base graduated to 360° and fixable in any position.
- THE (3 STEPS CLAMPING POSITION) SAME AS VH TYPE.
- Accuracy within 0.02mm
- Hydraulic-booster system is guaranteed for using 1 years limited.



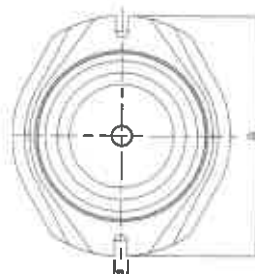
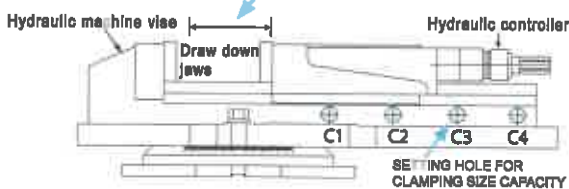
ORDER NO.	A	B	C OPEN	D	E	F	G	H	J	a	b	c	f	Max. Clamp Force (kgf)	G.W. (kgs)	Meas CFT	CODE NO.
VHT-4	110	36	170	50°	15	15	28	240	270	500	404	335	230	2500	(W)33.3	1.2	1002-020
VHT-6	154	54	300	50°	20	19	28	300	330	800	585	415	290	4500	(W)88	4.4	1002-021

## Swivel base

## Swivel base

Unit:mm

## CLAMPING CAPACITY (3 STEPS CLAMPING POSITION FIG)



ORDER NO.	a	b	c	n	Q	G.W. (kg)	CODE NO.
HS-4	280	210	30	16	15	4	1002-010
HS-5	297	267	43	16	20	7	1002-011
HS-6	335	310	40	16	20	10	1002-012
HS-8	373	355	45	16	22	16	1002-013



# Universal Tilting Hydraulic Machine Vise

**NEW**

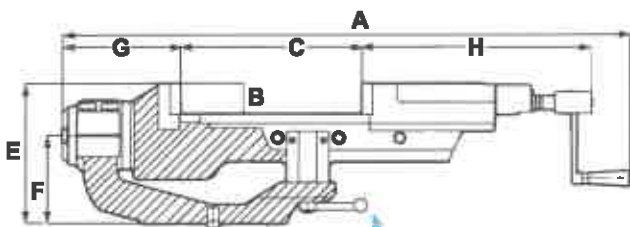
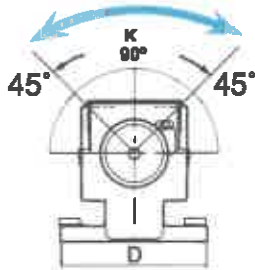
**PATENT**

- **JAM PROOF**
- **HYDRO LIMIT PROOF.**
- **SCREW SHAFT BROKEN PROOF**



Hydraulic controller:  
provide stable pressure,  
hydro indexer. Protect  
the hydro system.

LEFT      RIGHT

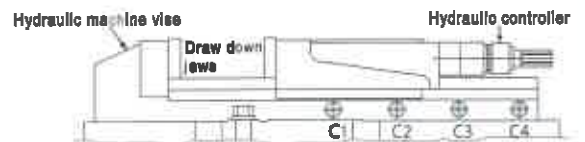


CLAMPING HANDLE



CLAMPING HANDLE  
FOR TILTING

- New design: adjustable pressure device.
- Suit for processing of brass, AL, plastic, steel.
- New design: super open jaw size, smallest open jaw size.
- Lock proof system: prevent wrong clamping force sticks the vise.
- 45 Degree tilting function by hand, allow 90 degree processing!
- Tilting function has more work free allowance will not block or hit machine!
- Lower overall height provides more space for heavy cutting stability and bigger workpiece!
- Tilting structure has strong tightening design.
- All function same as VH series. Except the tilting Structure.





HYDRO-BOOSTER



ACCURACY GUARANTEE



TABLE HARDNESS



TILTING



patent  
**PAT.**

ORDER NO	A	B	C OPEN	D	E	F	G	H	i	j	Max. Clamp Force (kgf)	K Max. Degree	G.W. (kgs)	CODE NO.
VHT-4U	653	36	170	∅162	165	104	169	263	141	80	3750	90°	37.39	1002-025
VHT-6U	942	51	300	∅242	231	145	196	380	199	125	5250	90°	93.96	1002-026



# Hydraulic Machine Vise



HYDRO + MECHANICAL

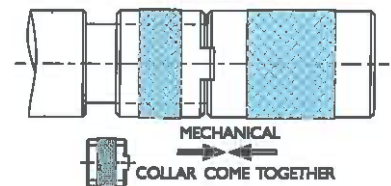
PAT.

Power Build Out Type

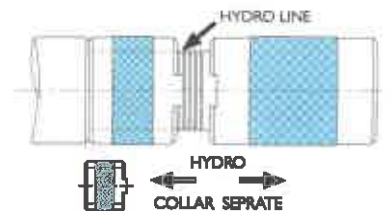
HYDRAULIC MACHINE VISE



HYDRO FORCE INDICATOR  
A→H



MECHANICAL  
COLLAR COME TOGETHER

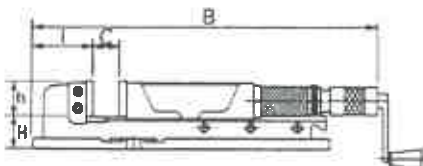
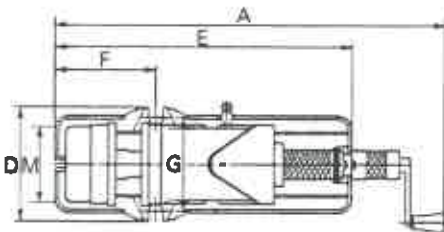


HYDRO LINE  
COLLAR SEPRATE

SUIT FOR PROCESSING OF  
BRASS, AL, PLASTIC, STEEL,  
CASTING

## Features

- Hydro : move the spindle ring until see the hydro line to work vise.
- Mechanical : move the spindle ring toward the end until the bushing close the hydro line.
- Heavy duty cutting.
- Hardness > HRC 45° : vise sliding bed.
- High durability & high precision.
- Tolerance : 0.01/100mm
- Lift proof : press down design.
- FCD 60 with 60 kgs/mm<sup>2</sup> or 80,000 psi high quality ductile cast iron - body material - reduce the cutting vibration.

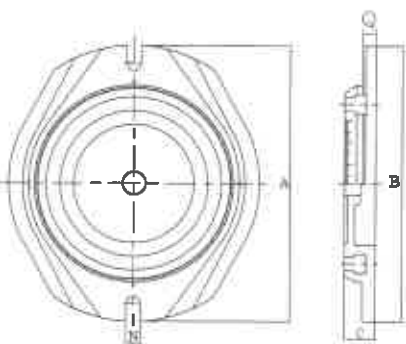


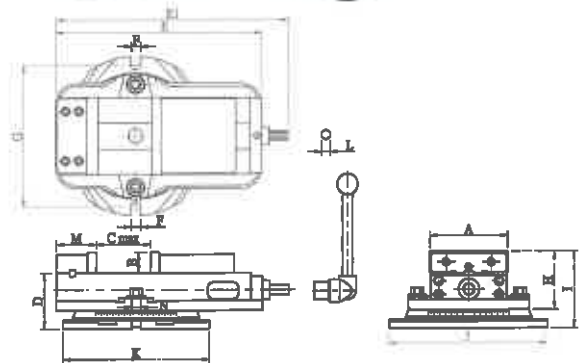
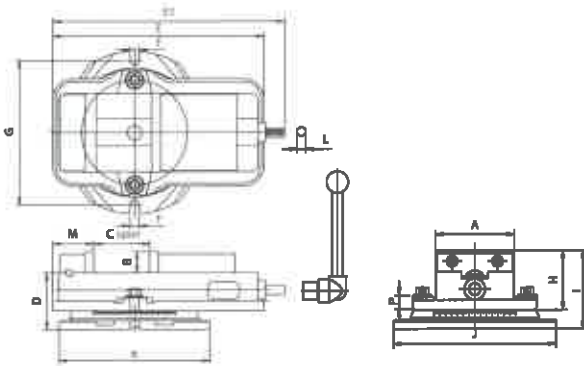
## VHO-VISE

ORDER NO.	A	B	C OPEN	D	E	F	G	H	I	M	h	Jaw w	Max. Clamp Force (kgf)	N.W. (kgs)	CODE NO.
VHO-5	695 920	545 775	0-220	190	505	180	160	74	105	130	55	130	3500	36.5	1002-220
VHO-6	750 1060	600 915	0-300	240	625	208	196	80	125	160	58	160	4000	59.1	1002-221
VHO-8	830 1140	700 1015	0-310	280	700	265	240	100	165	200	63	200	5000	94.3	1002-228

## Optional : Swivel Base

ORDER NO.	A	B	C	N	N.W. (kgs)	CODE NO.
HSO-5	285	263	35	16	12.5	1002-222
HSO-6	330	320	40	18	16.5	1002-223
HSO-8	415	413	50	21	35	1002-229





- The enclosed lead screw and sliding surface are harden and ground.
- Highest clamping power. It's very accurate and durable.
- This Vise is so designed that the horizontal Force generated by tightening the handle pushes the semisphere within the movable jaw and thus thrusts the movable jaw downward - angle lock feature.
- There fore, the workpiece does not lift, even if it is held at the top of the jaw plates.
- Four setting positions of the jaw plates are available, widening the jaw plates opening.
- ACCURACY WITHIN 0.02mm
- Mini order quantity : 3 sets for same height by request.
- In order to ensure the accurrence when using it' better that don't put swivel base together



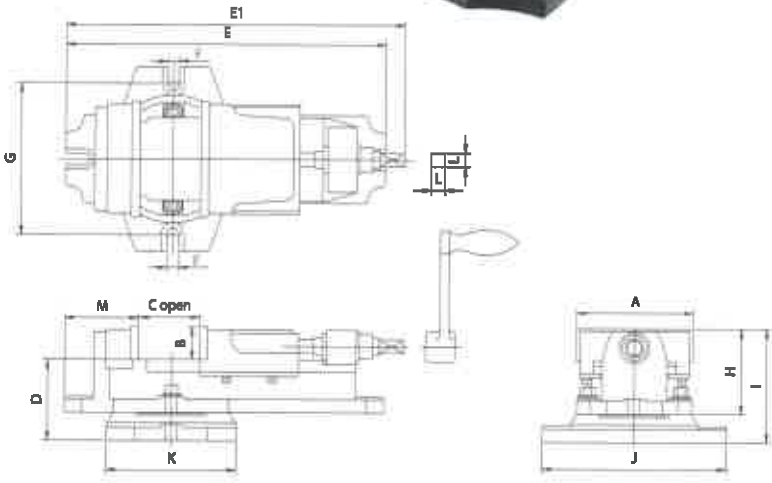
## Order No. & Dimensions

ORDER NO.	A	B	C OPEN	D	E	E1	F	G	H	I	J	K	L	M	N	P	MAX. Clamp Force (kgf)	G.W. (KG)	C.F.T. (CM)	CODE NO.
VA-4	106	36	103	90	324	351	13	211	96	126	242	228	14.5	75	16	15	1500	20	35x24x15	1002-030
VA-5	135	36	110	97	359	394	17	246	101	133	277	255	14.5	85	16	15	2000	30	41x31x17	1002-031
VA-6	155	46	150	110	422	452	20	288	118	158	326	302	19	95	16	17	2500	42	49x35x20	1002-032
VA-8	210	60	197	129	553	583	19	355	145	190	395	366	19	105	16	19	3000	80	63x41x24	1002-033
VD-675	160	49	190	110	445	478	19	296	121	160	333	305	19	80	16	17	2500	42	52x35x21	1002-034
NEW VD-690	155	46	230	110	450	480	20	288	118	158	326	302	19	67	16	17	2300	43	49x35x20	1002-034B
NEW VD-810	205	62	275	129	555	615	19	378	147	191	420	377	19	79	16	17	3000	76	63x41x24	1002-035B

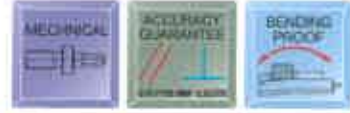
# K-Type Milling Vise



K-TYPE MILLING VISE



- It's a practical piece of equipment with excellent precision and a high quality finished.
- Body, movable jaw and swivel base made of closes-grained high tensile iron castings. Built for machining and retained accuracy.
- Jaw plates were made of hardened and grounded tool steel.
- It's the most suitable for the Milling, Grinding and Drilling.
- ACCURACY WITHIN 0.02mm
- In order to ensure the accuracy when using it' better that don't put swivel base together.



## Order No. & Dimensions

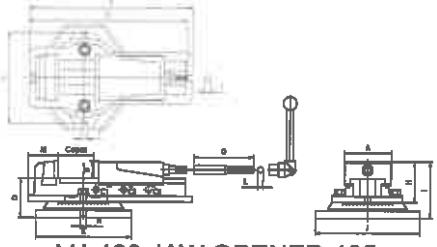
ORDER NO.	A	B	C OPEN	D	E	E1	F	G	H	I	J	K	L	M	Max. Clamp Force (kgf)	G.W. (kgs)	C.F.T. (cm)	CODE NO.
VK-4	104	36	62	76	293	310	13	145	83	113	176	122	15	65	900	10	33x13x13	1002-040
VK-5	132	37	80	92	362	384	13	172	97	129	209	147	15	84	900	16	40x16x15	1002.041
VK-6	154	43	112	105	442	473	15	209	108	148	260	181	16.5	90	1000	27	51x22x19	1002-042
VK-8	204	63	148	127	579	609	18	312	148	190	350	234	21	122	1400	59	65x27x25	1002-043

# Super Open Vise

MECHANICAL TYPE



VJ-600  
EXCEPT THE HYDRAULIC SYSTEM, THE FEATURE IS SAME AS VH-TYPE  
ACCURACY WITHIN 0.02mm



VJ-400 JAW OPENED 185mm  
VJ-500 JAW OPENED 245mm  
VJ-600 JAW OPENED 305mm

- In order to ensure the accuracy when using it' better that don't put swivel base together



## Order No. & Dimensions

ORDER NO.	A	B	C OPEN	Opening Size For Capacity			D	E	E1	F	G	H	I	J	K	L	M	N	O	Max. Clamp Force (kgf)	G.W. (kgs)	CFT (cm)	CODE NO.
				C1	C2	C3																	
VJ-400	110	38	185	0-65	52-129	116-185	97	386	516	15	240	96	135	270	238	14.5	90	16	156	1500	25	46x26x16	1002-050
VJ-500	132	48	245	0-78	70-158	150-245	110	455	580	17	255	113	158	290	265	19	85	16	166	1500	34	48x28x18	1002-051
VJ-600	154	56	305	0-111	97-211	197-305	118	546	722	17	255	131	175	290	265	19	111	16	200	1500	46	57x30x22	1002-052



# 2-Way Angle Milling Vise



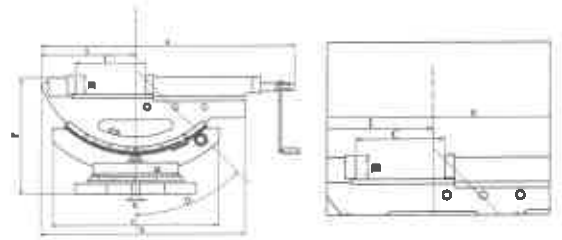
TW PAT.

MECHANICAL TYPE

NEW



SUPER OPEN CAPACITY:  
VWT-4B JAW OPENED 220mm  
VWT-6B JAW OPENED 350mm



- Tilting seat set by two locking screws, works in high stability.
- Angle setting ranges from 0°~50°. Tilting degrees graduated for easy reading. Swivel base graduated to 360° and fixable in any position.

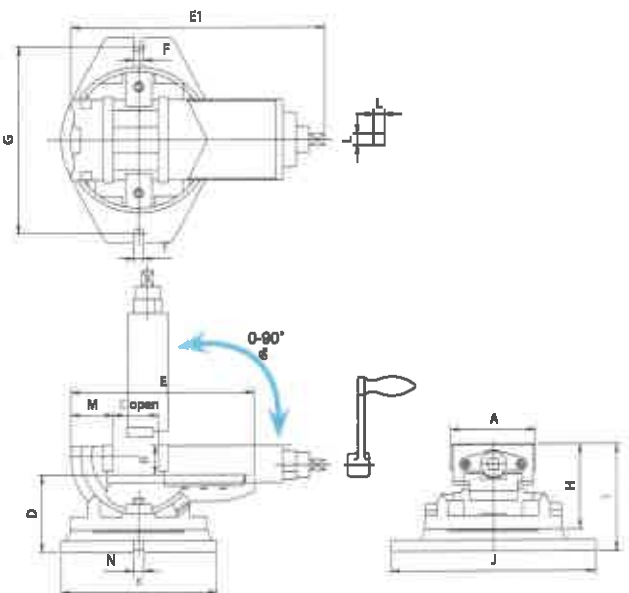


## Order No. & Dimensions

ORDER NO.	A	B	C OPEN	D	E	F	G	H	I	J	a	b	c	f	Max. Clamp Force (kgf)	G.W. (kgs)	Meas CFT	CODE NO.
VWT-4B	110	36	220	50°	15	15	26	240	185	270	500	404	335	230	1200	(C) 33.3	1.2	1002-060B
VWT-6B	152	54	350	50°	20	19	28	300	246	330	800	585	415	290	1600	(W) 79.7	4.4	1002-061B



# 2-Way Machine Vise



- Heavy cast iron structure
- Scales in both axis
- 360°swivel around Z-axis
- 90° vertical and horizontal swivel



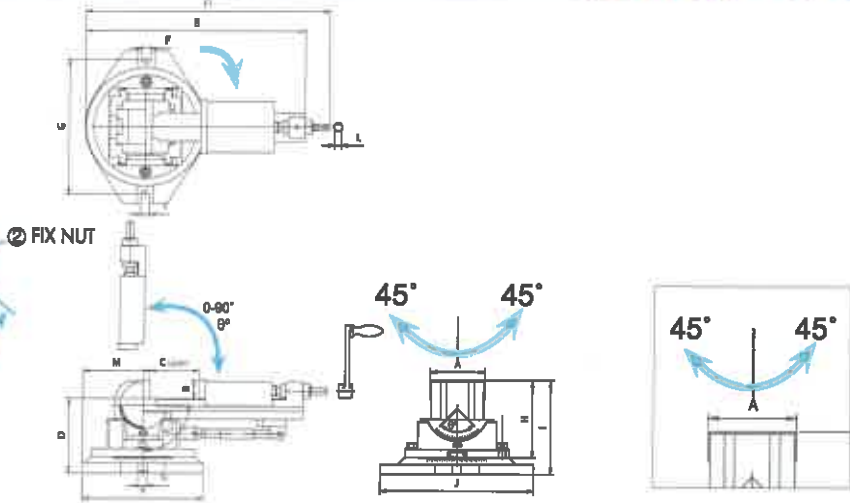
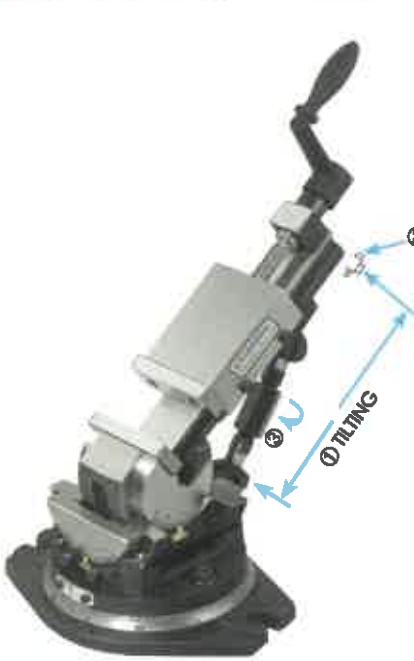
## Order No. & Dimensions

ORDER NO.	A	B	C OPEN	D	E	E1	F	G	H	I	J	K	L	M	N	θ	Clamp Force(kgf)	Meas CFT	CODE NO.
VWT-6A	160	51	120	140	360	510	17	293	150	191	328	252	17	83	16	0°~90°	1600	47	1002-091

# 3-Way Angle Milling Vise



ANGLE MILLING VISE



- Angles can be set in 3 dimensions. Swivels 360° around base. The vise can be elevated through 90° from the horizontal to vertical. And also can be tilted on its lower angle base up to 45° in both right and left.
- Tilting of any angle all keep the workpiece steady, smooth.
- Particularly the clamping part of screw is strengthened by a bush made of gunmetal.
- Turn ① to adjust tilting angle. fix ② to lock.



## Specifications

ORDER NO.	A	B	C OPEN	D	E	E1	F	G	H	I	J	K	L	M	N	□	□	MAX. Clamp Force (kgf)	G.W. (kgs)	Meas CFT	CODE NO.
VW-3	80	31	85	126	335	370	15	210	127	157	240	185	10	95	16	-45°~45°	-0°~90°	800	16.7	40x21x19	1002-080
VW-4	110	38	116	152	448	497	17	276	157	190	311	245	13	135	16	-45°~45°	-0°~90°	1000	32.7	56x27x23	1002-081
VW-5	135	40	145	170	530	580	17	310	173	210	358	271	13	140	16	-45°~45°	-0°~90°	1600	49.4	66x31x25	1002-082

# Quick Index Holder

VFV-40H

- SHANK HEX. TYPE
- FOR CUTTING 6 DIVISION TYPE
- EACH 60° FOR 1 DIVISION
- ※ FOR CUTTING HEX. & SQUARE SHAPE ON ROUND BAR & ROD
- ※ THROUGH HOLE

VFV-41S

- SHANK SQUARE TYPE
- FOR CUTTING 4 DIVISION
- EACH 90° FOR 1 DIVISION



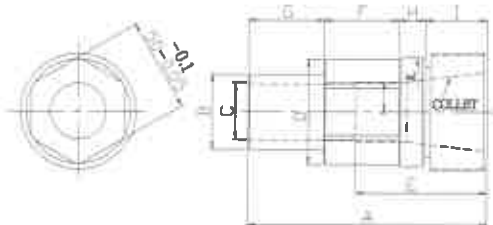
NEW



60° DIVIDING FOR PUT ON THE VISE



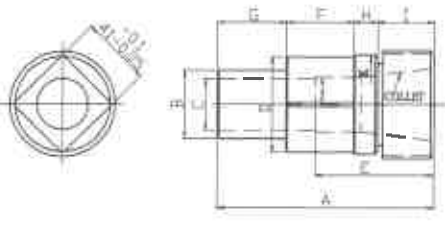
HORIZONTAL



90° DIVIDING FOR PUT ON THE VISE



VERTICAL

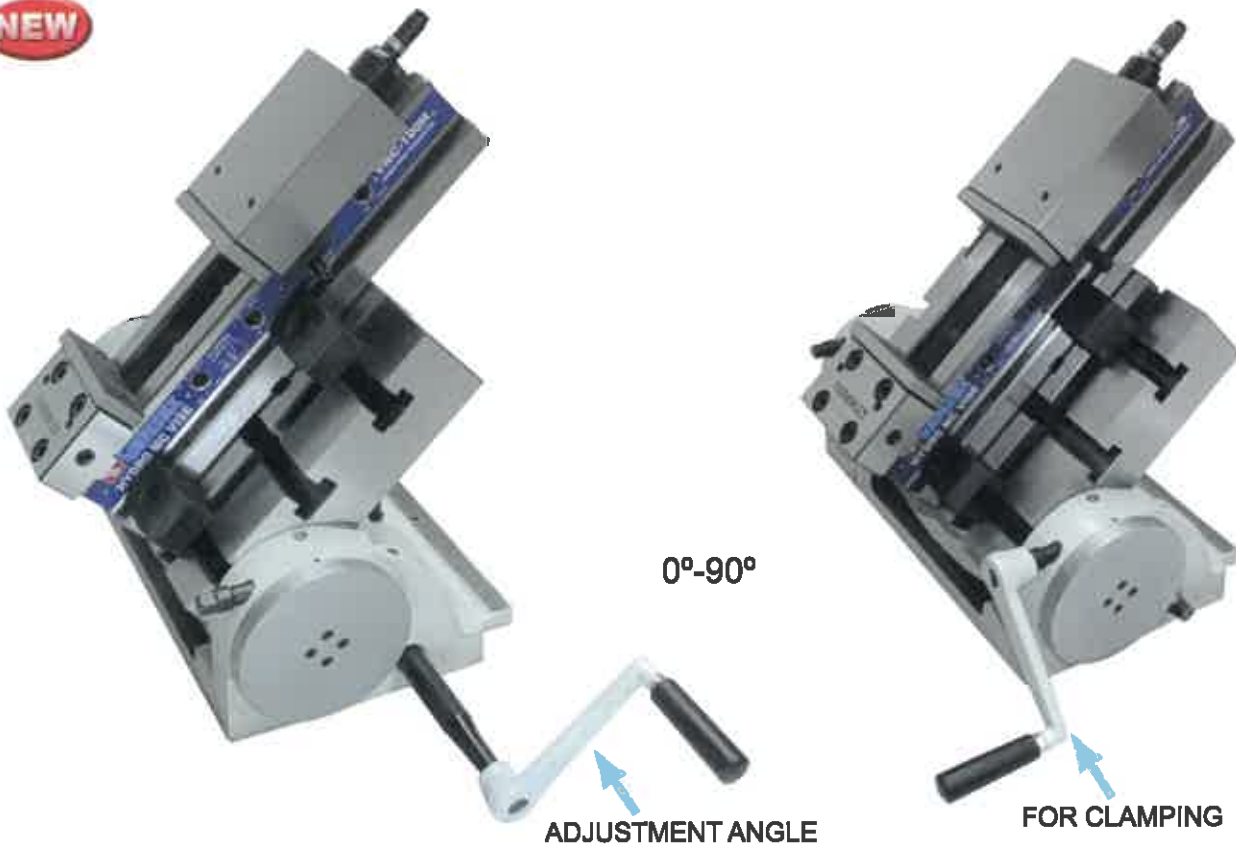


mm

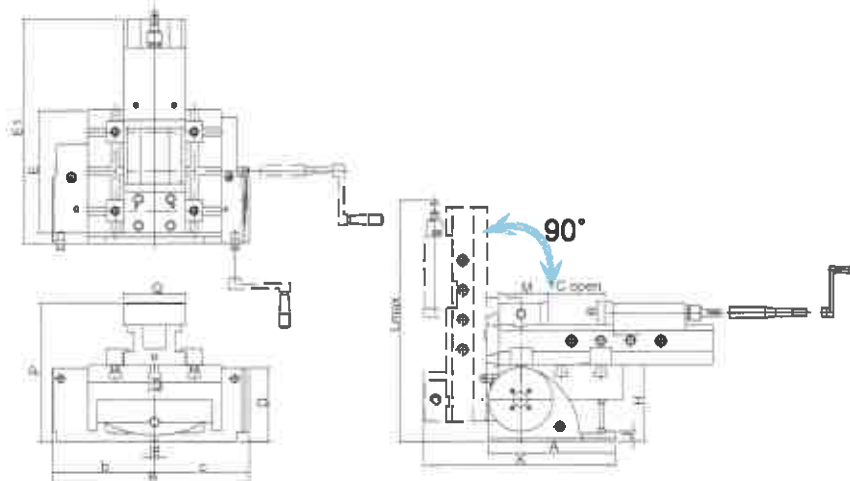
ORDER NO.	A	B	C	D	E	F	G	H	I	J	K	COLLET SIZE	WEIGHT KGS	CODE NO.
VFV-40H	127	40	30	56	70	40	40	14	33	32	58	ER-40 7 PCS/SET	4.8	1001-101
VFV-41S	127	40	30	56	70	40	40	14	33	32	58	ER-40 7 PCS/SET	5.2	1001-102



**NEW**



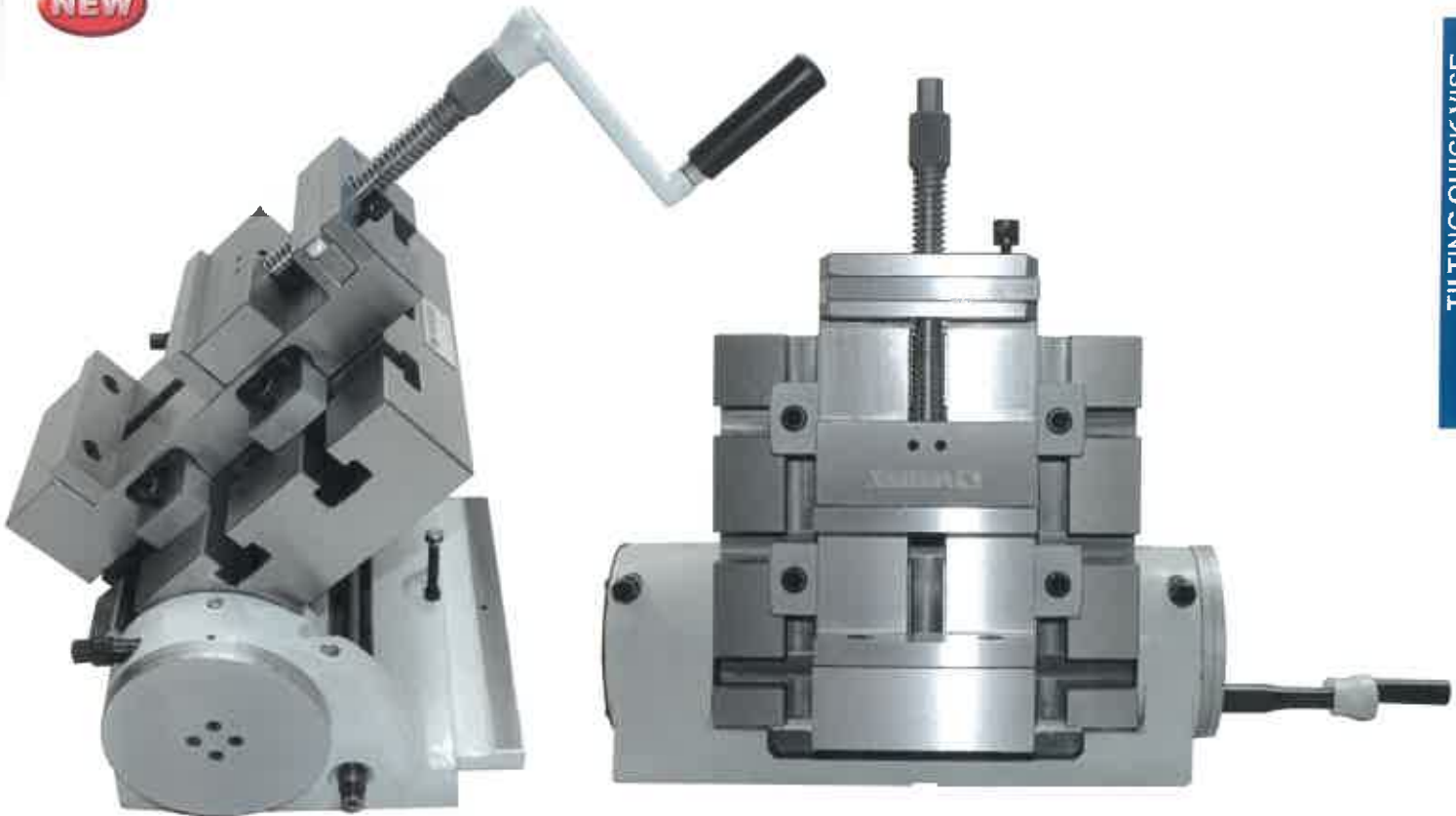
- Tilting by rigid & strong design, 2 supporter & rigid clamping system construction.
- Minimum set-up time.
- Tilting angle can adjusted by worm & worm gear system.
- Accurate and built for use in milling, boring and other machines.
- Worm shafts are hardened and ground.
- Tilting plate with slots enable Multi-position work fixing.
- Strong structure.
- Hydro-booster system for maximum clamping pressure with minimum force.
- Sliding bed ways flame hardened and ground.
- Compact design. Great clamping capacity. Light & smooth operation.
- Body is made of FCD60 ductile cast iron, High deflection/bending resistant.
- Constructed for machining center, milling, drilling, grinding and many other machine shop applications.



ORDER NO.	A	B	C open	D	E	E1	F	G	H	J	K	L max.	M	P	Q	b	C	CODE NO.
<b>VUT-4NC</b>	180	285	205	156	150	390	16	20	115	16	292	502	80	264	100	143	125	1002-251
<b>VUT-5NC</b>	255	399	225	270	258	442	16	22	155	20	386	619	100	397	124	210	187	1002-252
<b>VUT-6NC</b>	300	449	310	320	298	580	16	26	169	25	453	757	120	489	159	235	212	1002-253

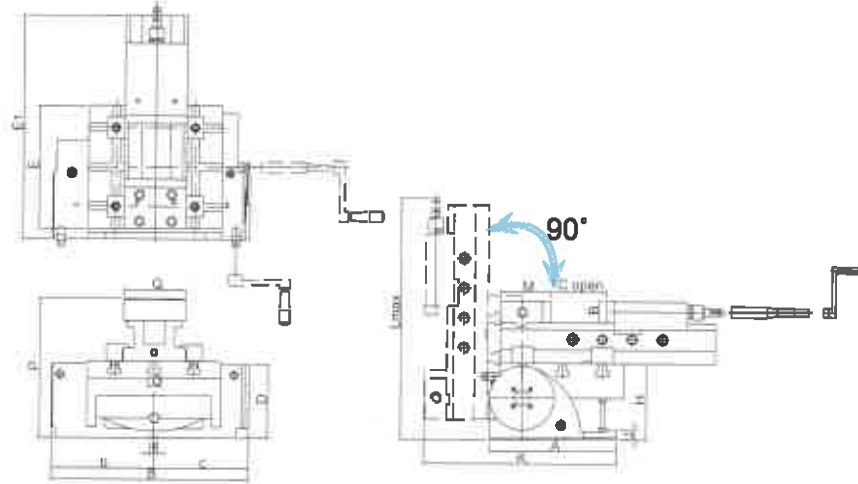
**NEW**

TILTING QUICK VISE



0°-90°

- THE FEATURE IS SAME AS VUT-4NC
- Special design for quick clamping. (From the acme thread shaft stationly)
- Quick setting by sliding movement. Big clamping capability.
- Operating very quick and easy, can increase so much working efficiency than you can image.
- Good for short term and massive production or proto type work.
- Suit for milling machine, grinding machine, precision drilling machine.
- Accurate grounded and assembled.
- Precision cut acme thread.
- Horizontal & vertical



ORDER NO.	A	B	C open	D	E	E1	F	G	H	J	K	L max.	M	P	Q	b	c	CODE NO.
VUT-3QS	180	34	85	113	150	240	16	20	115	16	255	412	28	185	81	143	125	1002-258
VUT-4QS	255	36	104	150	258	266	16	22	155	20	332	485	55	227	105	210	187	1002-259
VUT-5QS	300	36	125	169	298	307	16	26	169	25	379	563	60	243	131	235	212	1002-260



# Self Centering Vise 5 AXIS VISE



PAT.

SAME HEIGHT GUARANTEE

INTER-CHANGEABLE JAW

**NEW**



VCV-1090

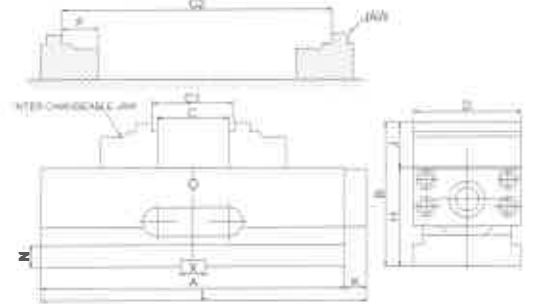
Reversible Jaw : Remove 4 Fixed Screw to Re-install Jaws.



VCV-0611



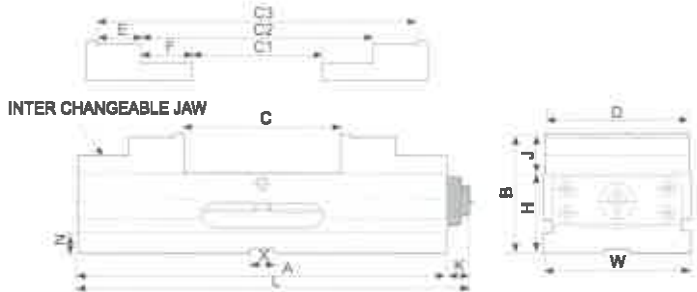
C CLAMPING CAPACITY



VCV-0611



- Sult for 4/5 axis CNC machine
- Repeat clamping tolerance  $\pm 0.01\text{mm}$
- Material: FCD60, high tension cast iron
- Slide way hardness: HRC 45°
- Inter changeable jaw: heat treatment HRC 55°
- Lock down-drawing force: keep work piece from lifting

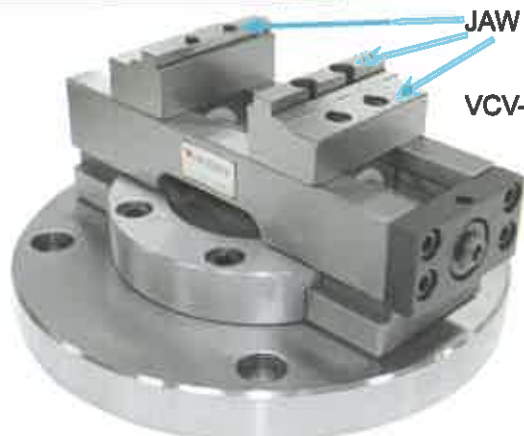


VCV-1090

## Specifications

ORDER NO.	A	B	C OPEN	CLAMPING CAPACITY			D	F	H	J	K	N	X	L	MAX. Clamp Force (kgf)	kg $\pm$	CODE NO.
				C1	C2	C3											
VCV-0611	170	80	106	112	45-140	/	60	20	55	25	15	14	14	185	/	5	1002-107
VCV-10130	240	120	130	140	62-190	/	100	30	80	40	16	21	16	256	/		1002-109
VCV-1090	240	120	90	90	70-160	134-222	100	35	80	40	20	22	18	260	200	17	1002-108

## With Swivel Base Type



JAW CLAMPING SCREWS (EACH JAW 4 PCS)

VCV-0611S FOR CNC ROTARY TABLE

ORDER NO.	BASE SIZE	kg $\pm$	CODE NO.
VCV-0611S	$\varnothing 200 \times 22$ Thickness	11.1	1002-107S
VCV-10130S			1002-109S
VCV-1090S	$\varnothing 250 \times 22$ Thickness	27.5	1002-108S

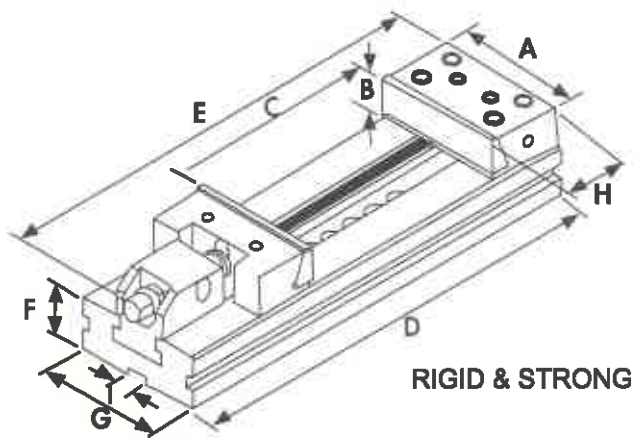


# Modular Precision Machine Vise



**SAME HEIGHT GUARANTEE**

MACHINE VISE



**RIGID & STRONG**

### Features

- High Accuracy 0.01/100 mm
- Unlimited Clamping Range
- High Quality Alloy Steel with HRC 59
- High Clamping Pressure
- EACH ONE IS SAME AS HEIGHT.
- CAN BE USED IN MULTIPLE STYLE.
- No Length of Height Limitation
- No Jaw Lift
- Low Profile
- All Vises are Matched parallelism  $\pm 0.01/100$  mm
- Optional : Swivel base



ORDER NO.	VMP -4	VMP -5	VMP -6	VMP -6B	VMP -6C	VMP -7A	VMP -7B	VMP -7C	VMP -8A	VMP -8B	VMP -8C	VMP -8D
A	100	125	150	150	150	175	175	175	200	200	200	200
B	30	40	50	50	50	60	60	60	65	65	65	65
C OPEN	100	150	200	300	400	200	300	400	200	300	400	500
D	270	345	420	520	620	455	555	655	573	595	695	795
E	325	360	530	600	700	620	620	620	718	718	718	880
F	35	40	50	50	50	58	58	58	70	70	70	70
G	75	96	125	125	125	145	145	145	170	170	170	170
H	78	78	90	89.4	89.4	97	97	97	114	114	114	113.4
I	16	16	16	16	16	16	16	16	16	16	16	16
Max. Clamp Force (kgf)	900	1300	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
KGS	9.2	16	28.5	34.8	38.1	43.7	48.3	53.5	66.3	73.2	81.3	87.2
CODE NO.	1002-190	1002-191	1002-192	1002-201	1002-202	1002-193	1002-194	1002-195	1002-196	1002-197	1002-198	1002-203



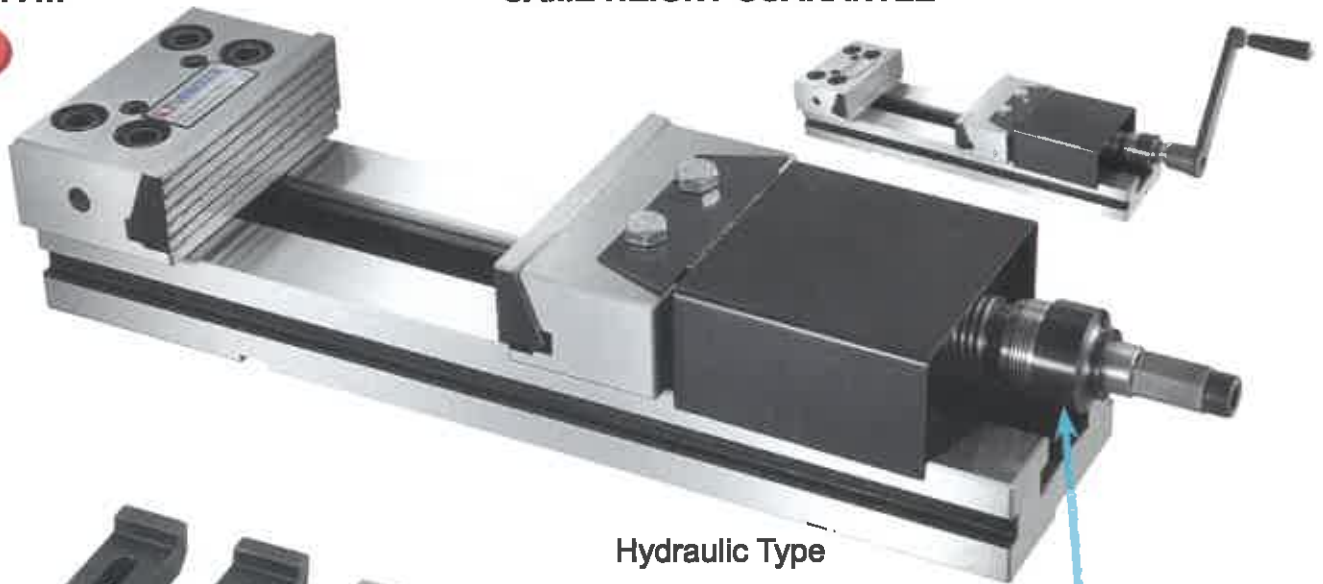
# Modular Precision Hydraulic Machine Vise



PAT.

SAME HEIGHT GUARANTEE

NEW



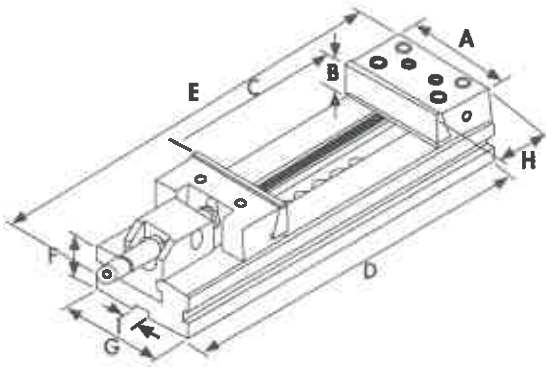
Hydraulic Type

Hydraulic Control Unit



### Features

- New design: Adjustable pressure device.
- Suit for processing of brass, AL, plastic, steel.
- New design: super open jaw size, smallest open jaw size. lock proof system: prevent wrong clamping force sticks the vise.
- Hydraulic clamping force 4500kg for heavy duty cutting. The screw mechanism type clamping force is 2200 kgs
- Smooth & light operation for the handle.
- High accuracy 0.01/100 mm
- Unlimited clamping range
- High quality alloy steel with HRC 59
- High clamping pressure
- Each one is same as height.
- Can be used in multiple style.
- No length of height limitation
- No jaw lift
- Low profile, strong & rigid.
- All vises are matched parallelism  $\pm 0.01/100$  mm



ORDER NO.	VMP -6BH	VMP -6CH	VMP -7AH	VMP -7BH	VMP -7CH	VMP -8AH	VMP -8BH	VMP -8CH	VMP -8DH
A	150	150	175	175	175	200	200	200	200
B	50	50	60	60	60	65	65	65	65
C OPEN	300	400	200	300	400	200	300	400	500
D	520	620	455	555	655	573	595	695	795
E	660	760	680	680	680	778	778	778	940
F	50	50	58	58	58	70	70	70	70
G	125	125	145	145	145	170	170	170	170
H	89.4	89.4	97	97	97	114	114	114	113.4
I	16	16	16	16	16	16	16	16	16
Max. Clamp Force (kgf)	4500	4500	4500	4500	4500	4500	4500	4500	4500
KGS	29	33	38	43	48	65	69	74	90
CODE NO.	1002-201H	1002-202H	1002-193H	1002-194H	1002-195H	1002-196H	1002-197H	1002-198H	1002-203H



# Modular Machine Free Vise

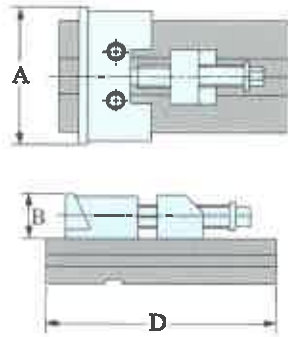
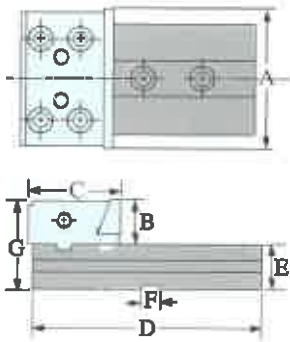
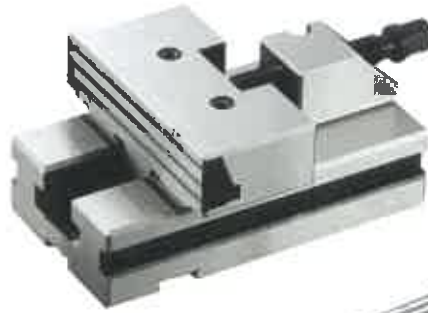


MODULAR VISES are manufactured under rigid quality control. Only the most suitable materials are used, and the accuracy of even the smallest components is assured. As a result of the high standard construction MODULAR VISES can be depended upon to maintain their accuracy under the most severe operating conditions.

MACHINE FREE VISE

## L TYPE VISE

VMP-4L, 5L, 6L, 7L



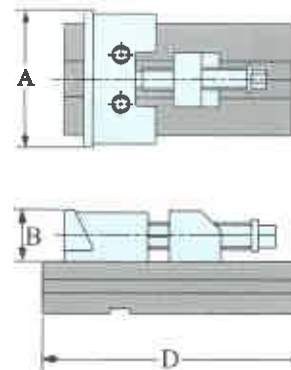
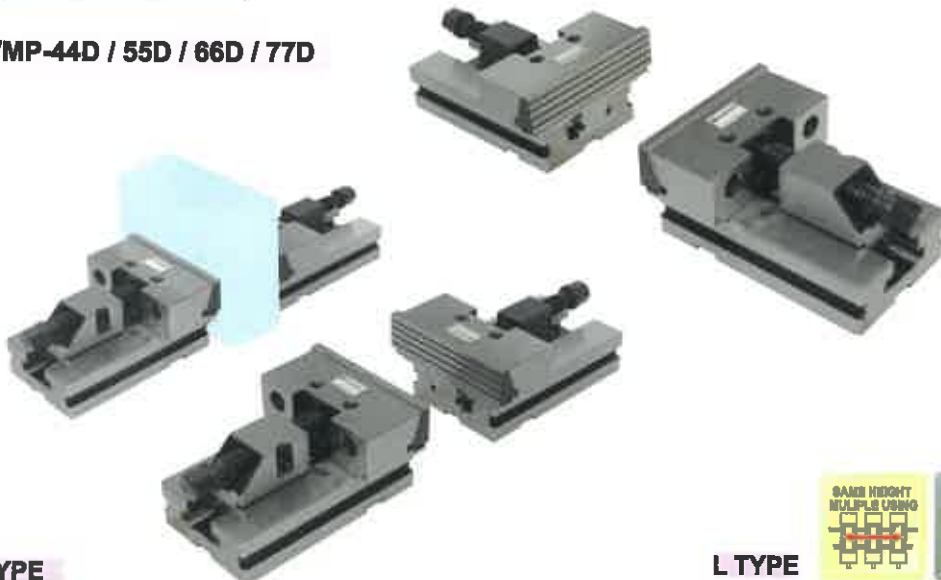
VMP-4L, 5L, 6L, 7L



Free head stock & fixed stock can for large wider workpiece use.

## D TYPE VISE

VMP-44D / 55D / 66D / 77D



D TYPE

L TYPE



ORDER NO.	VMP-44D	VMP-55D	VMP-66D	VMP-77D
A	100	125	150	175
B	30	40	50	60
C	78	78	90	97
D	140	160	230	240
E	35	40	50	58
F	16	16	16	16
G	65	80	100	118
KGS	8.5	14.5	30.1	42.4
CODE NO.	1002-206D	1002-207D	1002-208D	1002-209D

ORDER NO.	VMP-4L	VMP-5L	VMP-6L	VMP-7L
A	100	125	150	175
B	30	40	50	60
C	78	78	90	97
D	140	160	230	240
E	35	40	50	58
F	16	16	16	16
G	65	80	100	118
KGS	8.5	14.5	30.1	42.4
CODE NO.	1002-206	1002-207	1002-208	1002-209



# Free Angle Vise



ANY TILTING ANGLE

NEW



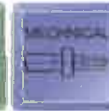
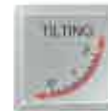
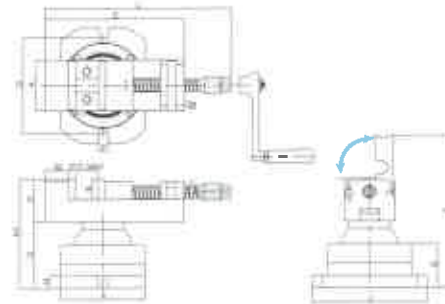
### Features

- Special design for quick clamping. (From the acme thread shaft stationly)
- Quick setting by sliding movement. Big clamping capability.
- Operating very quick and easy, can increase so much working efficiency than you can image.
- 360° Rotation, Tilting 30°
- Most free angle vise
- For non-normal angle setting.
- Its swivelling and tilting features with clamping make this unit for straight or inclined surface, angular drilling machining on various machine tools or for bench work table.

30°

CLAMPING BOLT

360°



ORDER NO.	A	B	C OPEN	D	E	F	G	H	H1	J	K	L	M	N	P	Q	R	MAX. Clamp Force (kgf)	Weight (kgs)	CODE NO.
VAV-3	82	34	85	110	230	17	158	70	194	190	140	374	38	20	12	72	268	700	17.6	1002-214
VAV-4	106	36	104	120	256	17	158	72	206	190	140	422	38	20	16	72	280	800	21.4	1002-215



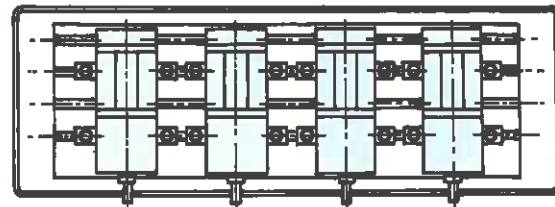
# Lock-Fixed II Precision Machine Vise

ORDER NO. VMC-4  
VMC-6

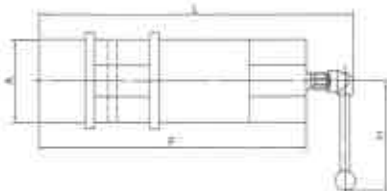


Performed sided vertically.

- With the ability of lock-fixed III 2, 3, 4, 5.
- Use the semi-sphere segment principle.
- When operate several vises (in a row) put on one machine bed, the operating situation is as shown.



Aligned Performance

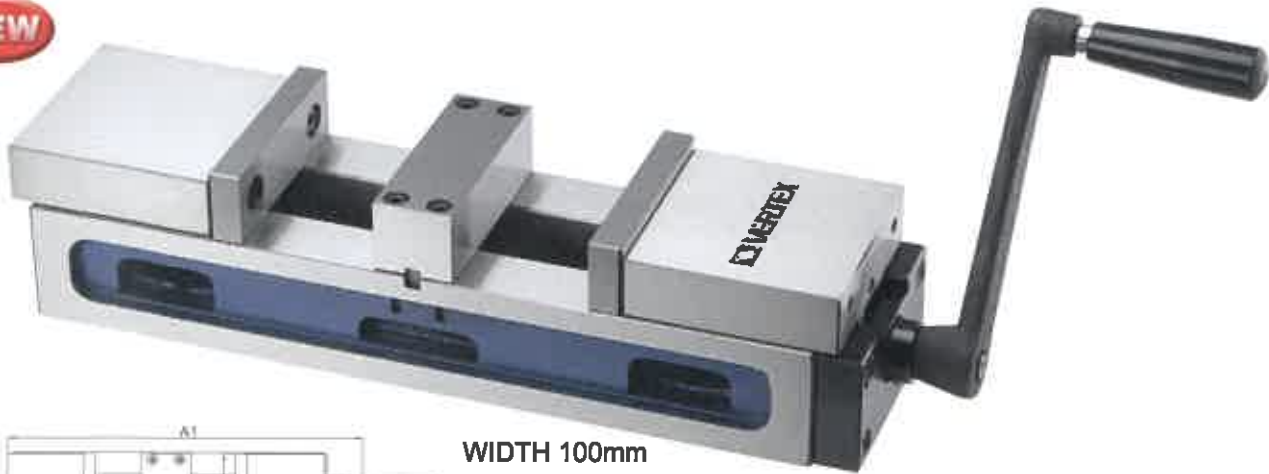


ORDER NO.	A	B	C OPEN	D	E	F	G	L	H	Max. Clamp Force (kgf)	Meas CUFT	Weight (kgs)	CODE NO.
VMC-4	108	100	103	36	63	283	16	374	202	1500	0.4	14.2	1002-185
VMC-6	156	120	142	46	74	370	16	472	221	2500	1.1	29.8	1002-186

# Double Clamp Vise

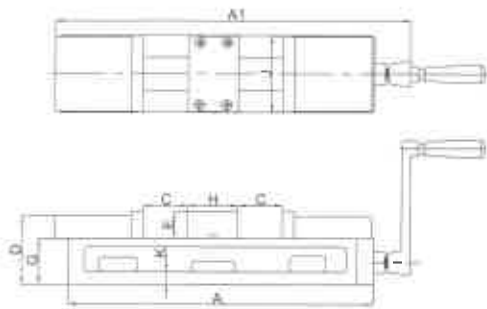


NEW



DOUBLE CLAMP VISE

WIDTH 100mm



- Opened 50mm each side.
- Accept 3mm workpiece different length.
- The slide ways are hardened.
- Precision made.
- One handle can operate two movable jaws and clamps 2 pieces of workpiece of similar size, for 3mm space.
- Lift Proof : Press down design.



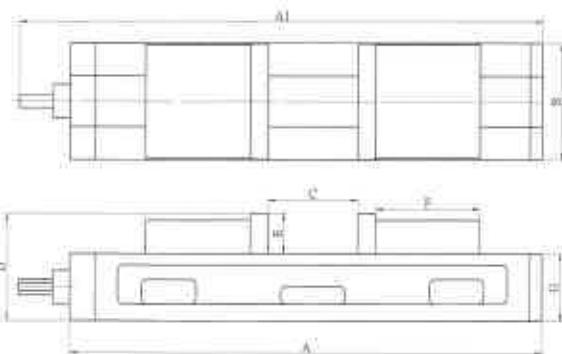
Unit:mm

ORDER NO.	A	A1	B	C OPEN	D	E	G	H	J	K	MAX. Clamp Force (kgf)	Weight kgs	CODE NO.	
VCV-4D	410	469	108	0~50	0~50	92	36	62	68	107	16	450	18.2	1002-236

# Compound Precision Vise

NEW

SELF-CENTERING



- Self centering. Suit for rough or irregular workpiece.
- Compact design, 185mm super opened.
- High Accuracy
- Super open capacity=190mm
- Rapid and convenient centralizing.
- Lift Proof : Press down design.



ORDER NO.	A	A1	B	C OPEN	D	E	F	G	MAX. Clamp Force (kgf)	Weight (kgs)	CODE NO.
VCV-44	420	469	108	185	98	36	102	62	450	17.7	1002-240



GERMAN TYPE  
JAPAN TYPE

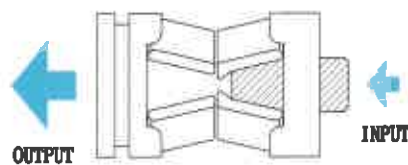
NEW

● **Great Capacity, Wide Clamping Range  
Constant Full Length**

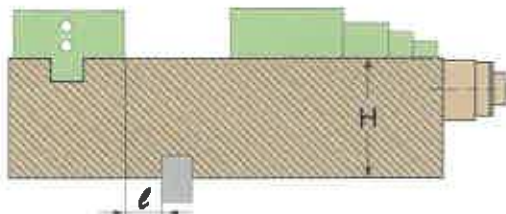
- Ultra clamping length more than other VMC-vise
- Big jaw opening.
- Easy operation, compact design.
- Even if the jaw is opened, it does not interfere with the cover of the mounting machine.
- Quick set up, time saving.
- When jaw is opened, it is not affect mounting machine's cover.



**HEAVY DUTY  
EURO STYLE**



Driving device  
Toggle joint device mechanism



H-Accurance  $\pm 0.01\text{mm}$   
L-Accurance  $\pm 0.01\text{mm}$

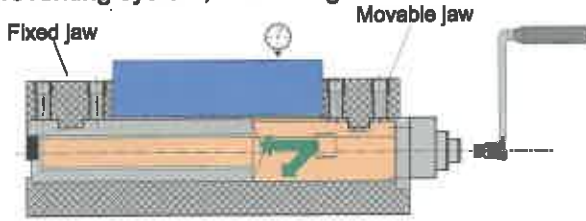
**SAME HEIGHT GUARANTEE**

● **Flexible Clamp System**

- High precision system keep the dimension tolerance within 0.01/100mm.
- Vise clamps long size workpieces securely & steady.
- High Accurate System: tolerance within 0.01/100mm.
- VQC Vise can hold long workpiece tight and fixed.

**MC Power vises guarantee the lifting of workpiece is within of 0.02/100mm.**

- Adapt a blinding beam system with workpiece lift Prevention mechanism. Pull-in effect.
- Adapt a lift preventing system, best design.



**LOCK DOWN DESIGN**



**High power & fine balanced body structure stable clamping force**

- The clamping force can be easily adjusted due to the preset mechanism.
- Mechanical type toggle enhancement mechanism.
- Clamping force can adjust to suit for different material, such as steel, brass and aluminum.
- Clamping force can be adjusted for customer's requirement.
- Adjustable clamping force device.



**GREAT SMOOTH OPERATION**  
**CLAMPING FORCE ADJUSTABLE DESIGN**  
 From 1800 kgf to 6000 Kgf

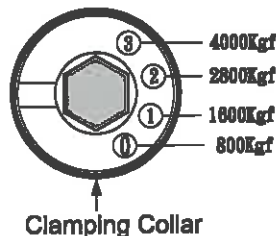


How to adjust the clamping force

- Adjustable clamping force device
- ADJUSTING METHOD**
1. FIXED COLLAR
  2. TURN BY WRENCH TO GET NO. 0, 1, 2, 3, 4. TO HAVE CLAMPING FORCE

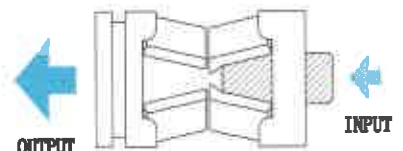
**Toggle joint device mechanism. One of the best vise mechanism design**

- After the moveble jaw touch,turning the handle, only the drive shaft is transmitted to the enhancement process of toggle joint device mechanism unit and the movable jaw clamps the work through the clamp spindle at the preset force.
- Clamp work piece, keep turning the handle, until the motion stop which means VQC mechanism has lock workpiece in the pre-set force.



Clamping Collar

**HEAVY DUTY EURO STYLE**



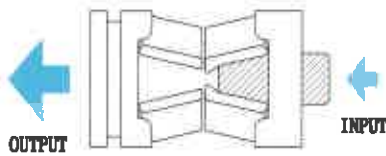
Driving device  
Toggle joint device mechanism

GERMAN TYPE  
JAPAN TYPE

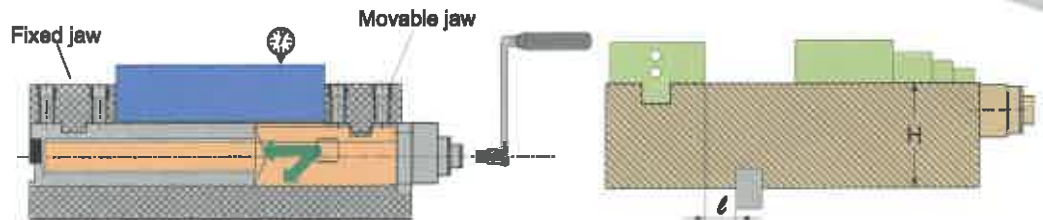


**TOGGLE JOINT MECHANISM  
DESIGN FOR HEAVY DUTY  
WORKING**

**HEAVY DUTY  
EURO STYLE**



Driving device  
Toggle joint device mechanism



**LOCK DOWN DESIGN**

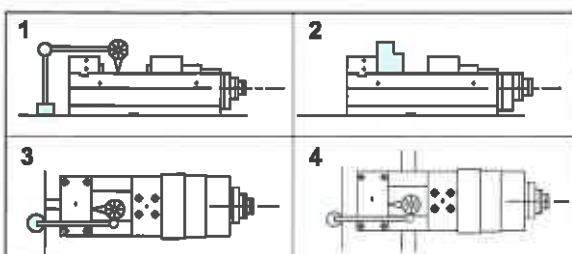
H-Accuracy  $\pm 0.01\text{mm}$   
L-Accuracy  $\pm 0.01\text{mm}$

**SAME HEIGHT GUARANTEE**

## Features

- Compact design. Great clamping capacity & rigid.
- "Toggle joint mechanism". Provides a steady clamping force against shocks and vibrations during the operations, since it clamps the workpiece resiliently with an aid of the "disc-springs" mounted inside.
- Strong clamping force.
- Large jaw stroke range.
- Exclusive Power Vise provide same height same position for horizontal and vertical MC, NC, Machine.
- Body is made of FCD60 high quality ductile cast iron, resists deflection or bending.
- Sliding bed ways flame hardened and ground.
- Concealed spindle for protection against chips and dirt.
- Quick of clamping & locking and easy of operation.

## INSPECTION SPECIFICATION



NO.	Inspection Item	Per (100mm)	Guaranteed
1	Parallelism: table face to bottom of bed.		0.01/100mm
2	Squareness :between table face and jaw plate.		0.02/100mm
3	Squareness: keyways on bottom of table face to jaw plate.		0.02/100mm
4	Parallelism: table face of the block to bottom of bed.		0.02/100mm



- ADJUSTING METHOD**
1. FIXED COLLAR
  2. TURN BY WRENCH TO GET NO.  
0, 1, 2, 3, 4. TO HAVE CLAMPING FORCE
  3. NO.2 IS MOST SUIT FOR WORKING

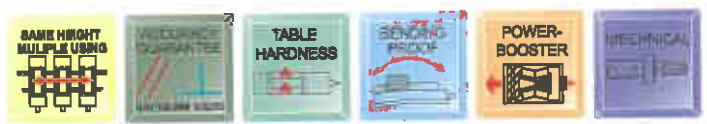
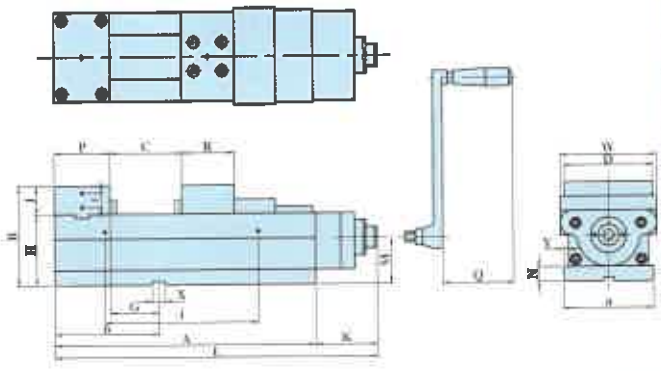
**CLAMPING FORCE CHART**

ORDER NO.	SCALE				
	4	3	2	1	0
VQC-100	-	30KN	21KN	12KN	6KN
VQC-125	-	40KN	28KN	16KN	8KN
VQC-160	60KN	46KN	32KN	18KN	10KN
VQC-160L	60KN	46KN	32KN	18KN	10KN
VQC-200L	60KN	46KN	32KN	18KN	10KN

**GREAT SMOOTH OPERATION**

**CLAMPING CAPACITY**

ORDER NO.	JAW J	JAW Open C	B	MAX. Clamping Force (KN)	N.W. kg	G.W. kg
VQC-100	35	128	120	30	23.2	26.2
VQC-125	40	205	140	40	36.5	40.4
VQC-160	45	275	165	60	67.0	72.3
VQC-160L	45	355	165	60	72.5	78.6
VQC-200L	70	405	190	60	99.5	108

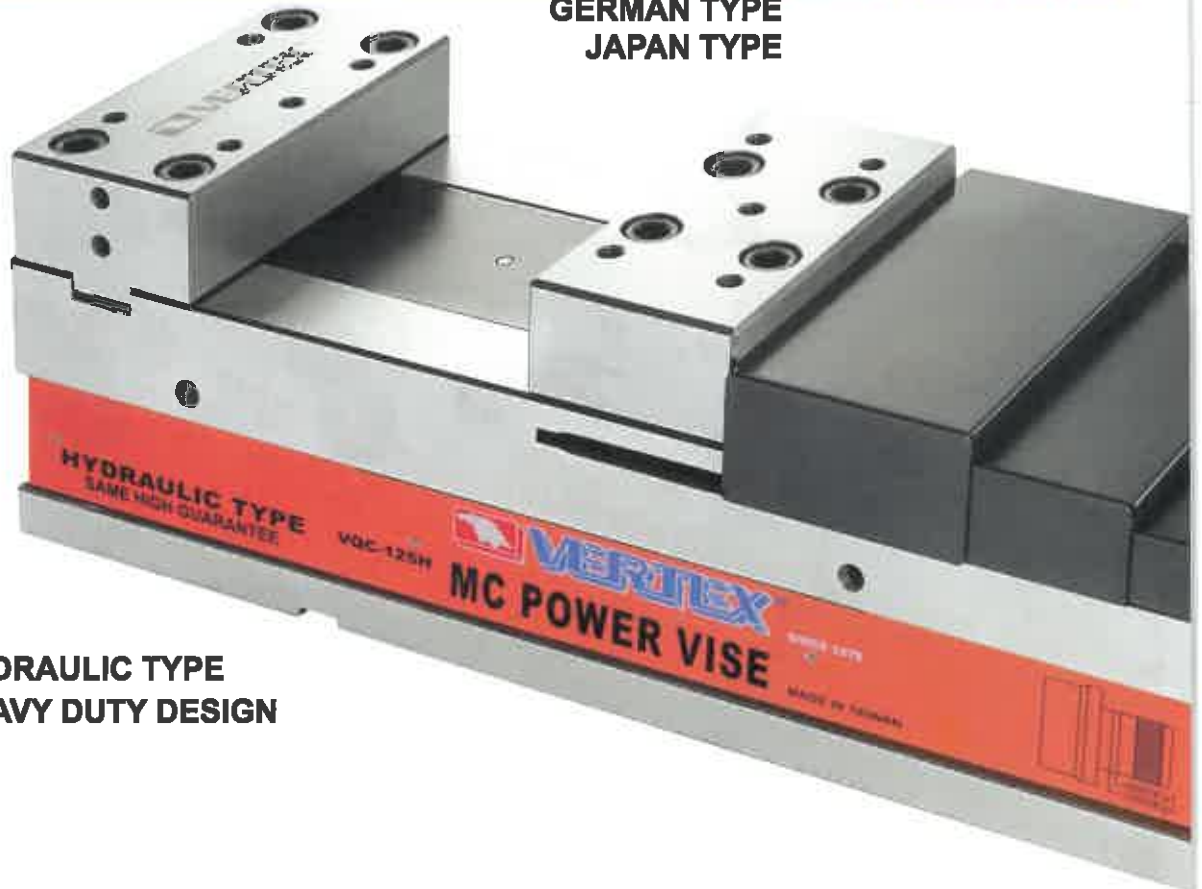


ORDER NO.	A	B	a	D	P	R	G	H	J	K	L
VQC-100	273	120	105	99	73	64	39	85	35	82.5	356.5
VQC-125	366	140	126	124.5	78	74	66	100	40	86	452
VQC-160	456	165	161	159.5	86	86	58	120	45	98	554
VQC-160L	536	165	162	160	86	86	58	120	45	98	634
VQC-200L	616	180	202	200	102	98	74	120	70	95	711

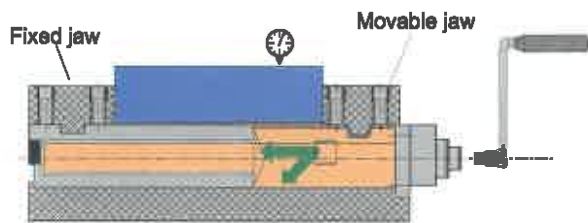
ORDER NO.	M	N	Q	W	X	Y	C OPEN	f	J	n	CODE NO.
VQC-100	50	15	74	110	14	6.5	128	20	105	112	4005-004
VQC-125	65	21	74	135	18	7	205	20	216	145	4005-005
VQC-160	78	21	94	170	18	7	275	20	286	145	4005-006
VQC-160L	78	21	94	174	18	7	355	20	286	145	4005-007
VQC-200L	75	21	96	217	18	7	405	20	386	177	4005-008

GERMAN TYPE  
JAPAN TYPE

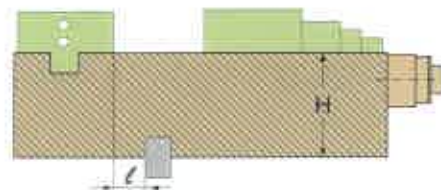
NEW



**HYDRAULIC TYPE  
HEAVY DUTY DESIGN**



**LOCK DOWN DESIGN**



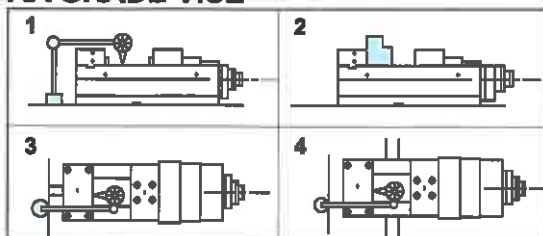
H-Accurance  $\pm 0.01\text{mm}$   
L-Accurance  $\pm 0.01\text{mm}$

**SAME HEIGHT GUARANTEE**

## Features

- Compact design. Great clamping capacity & rigid. Light & smooth operation.
- Constructed for milling, drilling, machining center, grinding and many other machine shop applications.
- Body is made of FCD60 ductile cast iron, HIGH deflection/bending resistant.
- Sliding bed ways flame hardened and ground.
- Concealed spindle for protection against chips and dirt.
- Hydro-booster system for maximum clamping pressure with minimum force.
- Quick of clamping & locking and easy of operation.
- Accuracy within 0.01/100mm.
- Hydro-booster system is guaranteed for using 2 years limited.
- The hydraulic oil number is 68#
- Hydro line - one scale indicate about 1/3 of the max. clamp force.

## AA GRADE VISE



## INSPECTION SPECIFICATION

NO.	Inspection Item	Per (100mm)	Guaranteed
1	Parallelism: table face to bottom of bed.		0.01/100mm
2	Squareness :between table face and jaw plate.		0.02/100mm
3	Squareness: keyways on bottom of table face to jaw plate.		0.02/100mm
4	Parallelism: table face of the table face block to bottom of bed.		0.02/100mm

# MC Power Vise Hydraulic Type VERTEX®

PATENT

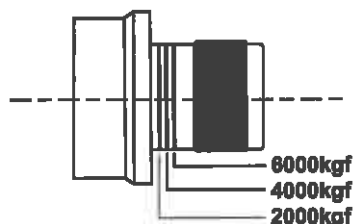
SAME HEIGHT GUARANTEE

MC POWER VISE

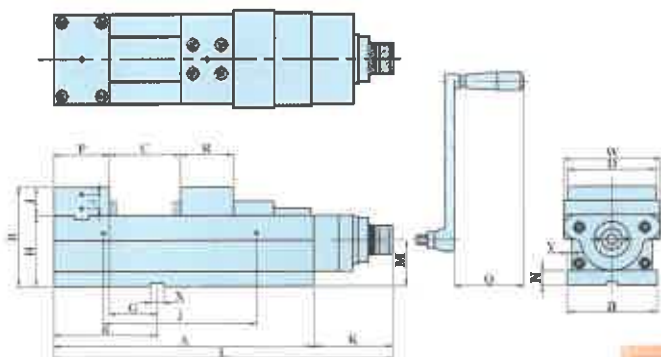
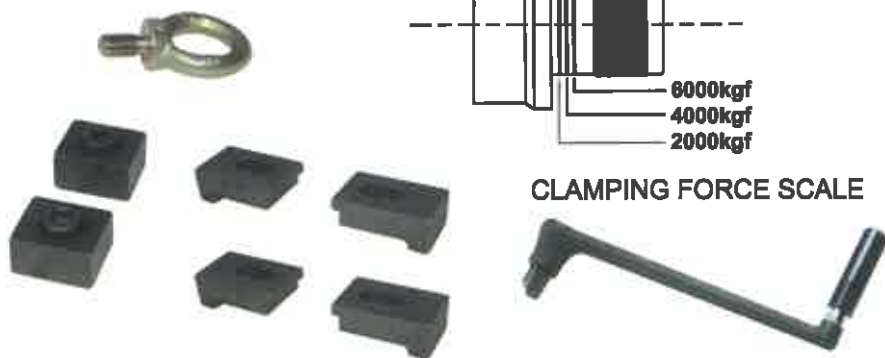


LIMIT HYDRO LINE

COMPACT DESIGN-  
SMALL LENGTH BODY BUT  
SUPER OPEN CAPACITY



CLAMPING FORCE SCALE



ORDER NO.	JAW J	JAW Open C	B	MAX. Clamping Force (KN)	G.W. kg
VQC-100H	35	128	120	30	26.2
VQC-125H	40	205	140	40	42.5
VQC-160H	45	275	165	60	66
VQC-160LH	45	355	165	60	78.79
VQC-200LH	70	405	190	60	108

HYDRO-BOOSTER

SAME HEIGHT MULTIPLE USING

ACCURACY GUARANTEE

TABLE HARDNESS

BENDING PROOF

MEDICAL

patent  
**PAT.**

ORDER NO.	A	B	a	D	P	R	G	H	J	K	L
VQC-100H	273	120	105	99	73	64	39	85	35	110	383
VQC-125H	365	140	126	124.5	78	74	66	100	40	113.5	478.5
VQC-160H	455	165	161	159.5	86	86	58	120	45	125.5	580.5
VQC-160LH	535	165	162	160	86	86	58	120	45	125.5	660.5
VQC-200LH	615	180	202	200	102	98	74	120	70	122	737

ORDER NO.	M	N	Q	W	X	Y	C OPEN	f	J	n	CODE NO.
VQC-100H	50	15	74	110	14	6.5	128	20	105	112	4005-004H
VQC-125H	65	21	73	135	18	7	205	20	215	145	4005-005H
VQC-160H	78	21	93	170	18	7	275	20	285	145	4005-006H
VQC-160LH	78	21	93	174	18	7	355	20	285	145	4005-007H
VQC-200LH	75	21	95	217	18	7	405	20	385	177	4005-007AH

**NEW**



**ADJUSTING METHOD**

1. FIXED COLLAR
2. TURN BY WRENCH TO GET NO.  
0, 1, 2, 3, 4. TO HAVE CLAMPING FORCE

**CLAMPING FORCE CHART**

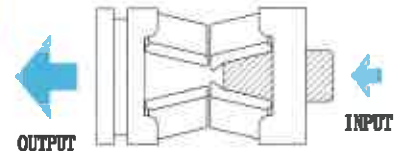
ORDER NO	SCALE				
	4	3	2	1	0
VQC-100	-	30KN	21KN	12KN	6KN
VQC-125	-	40KN	28KN	16KN	8KN
VQC-160	60KN	46KN	32KN	18KN	10KN
VQC-160L	60KN	46KN	32KN	18KN	10KN
VQC-200L	60KN	46KN	32KN	18KN	10KN



VICE JAWS CAN TURN 180° FOR YOUR REQUIREMENT.

**DRIVING**  
TOGGLE JOINT MECHANISM  
DESIGN FOR HEAVY DUTY  
WORKING

**HEAVY DUTY  
EURO STYLE**



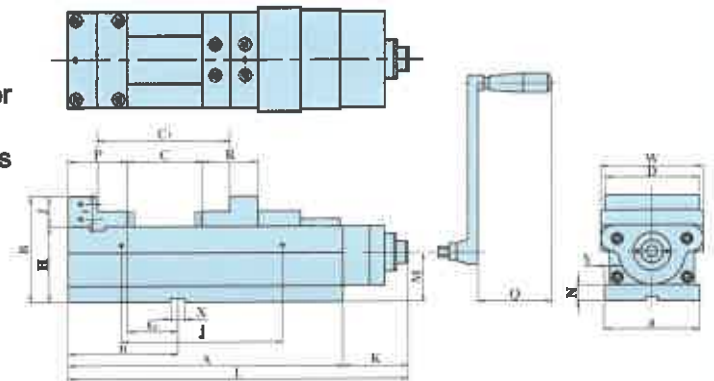
Driving device  
Toggle joint device mechanism

**Features**

- Compact design. Great clamping capacity & rigid.
- "Toggle joint mechanism". Provides a steady clamping force against shocks and vibrations during the operations, since it clamps the workpiece resiliently with an aid of the "disc-springs" mounted inside.
- Strong clamping force.
- Large jaw stroke range.
- Exclusive Power Vise provide same height same position for horizontal and vertical MC, NC, Machine.
- Body is made of FCD60 high quality ductile cast iron, resists deflection or bending.
- Sliding bed ways flame hardened and ground.
- Concealed spindle for protection against chips and dirt.
- Quick of clamping & locking and easy of operation.

**L TYPE IS ULTRA OPEN TYPE**

ORDER NO.	JAW		B	MAX. Clamping Force (KN)	G.W. kg
	J	Open C C1			
VQC-100LC	35	128 196	120	30	26.34
VQC-125LC	40	205 283	140	40	40.4
VQC-160LC	50	275 361	165	60	72.3
VQC-1602LC	50	355 455	165	60	78.58
VQC-2002LC	70	405 505	190	60	108



ORDER NO.	A	B	a	D	P	R	G	H	J	K	L	M	N	Q	W	X	Y	C OPEN	C1 OPEN	f	j	n	CODE NO.
VQC-100LC	273	120	105	99	73	64	38.5	85	35	82.5	356.5	50	15	74	110	14	6.5	128	196	20	105	112	4005-004LC
VQC-125LC	365	140	126	124.5	78	74	66	100	40	86.5	451.5	65	21	73	135	18	7	205	283	20	215	145	4005-005LC
VQC-160LC	455	165	161	159.5	86	86	58	120	50	98.5	553.5	78	21	93	170	18	7	275	361	20	285	145	4005-006LC
VQC-1602LC	535	165	162	160	86	86	58	120	50	98.5	633.5	78	21	93	174	18	7	355	455	20	285	145	4005-007LC
VQC-2002LC	615	180	202	200	102	98	74	120	70	95	710	75	21	95	217	18	7	405	505	20	385	177	4005-008LC

# MC Power Vise Hydraulic Type VERTEX®

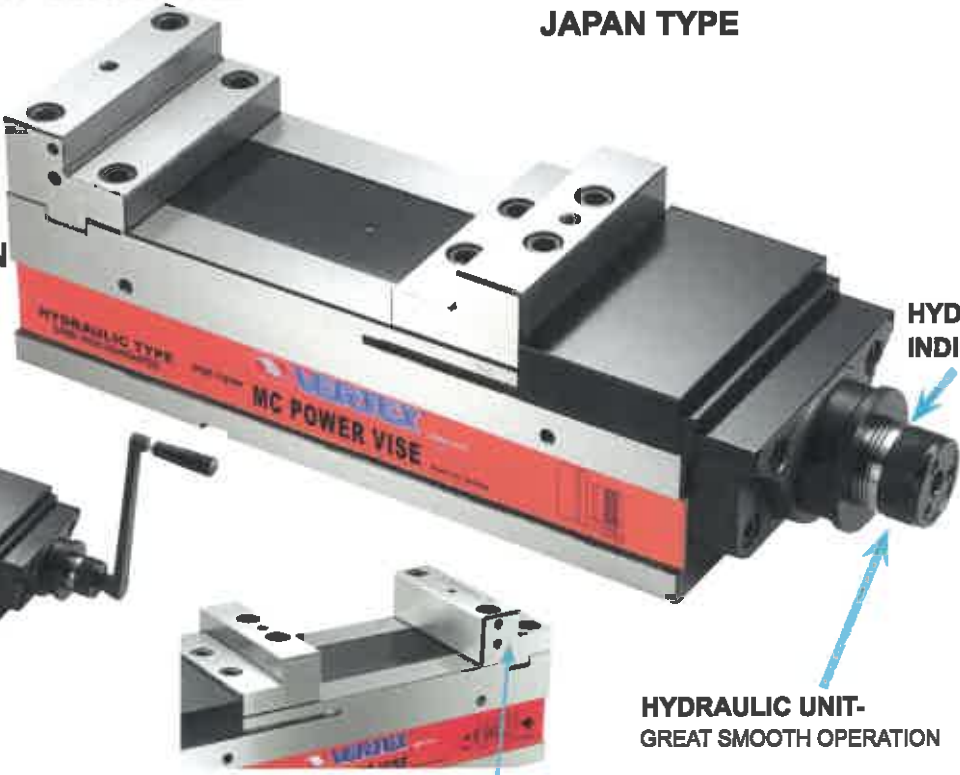
**SAME HEIGHT GUARANTEE**

**GERMAN TYPE  
JAPAN TYPE**

**NEW**

MC POWER VISE

**HYDRAULIC TYPE  
HEAVY DUTY DESIGN**



**HYDRO FORCE  
INDICATOR A→H**



**COMPACT DESIGN-  
SMALL LENGTH BODY BUT  
SUPER OPEN CAPACITY**

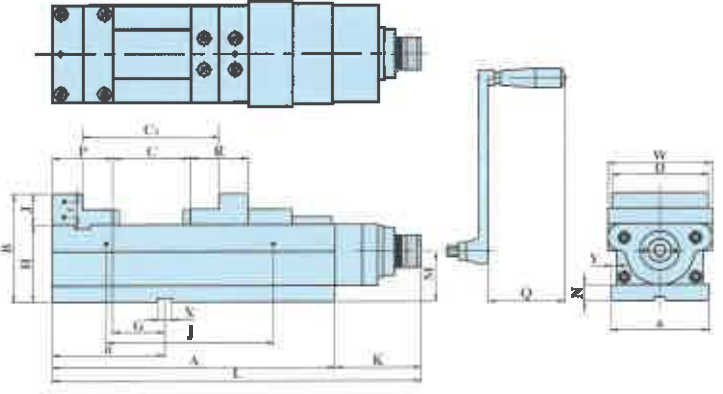


**VICE JAWS CAN TURN 180°  
FOR YOUR REQUIREMENT.**

**HYDRAULIC UNIT-  
GREAT SMOOTH OPERATION**

**Features**

- Compact design. Great clamping capacity & rigid. Light & smooth operation.
- Constructed for milling, drilling, machining center, grinding and many other machine shop applications.
- Body is made of FCD60 ductile cast iron, HIGH deflection/bending resistant.
- Sliding bed ways flame hardened and ground.
- Concealed spindle for protection against chips and dirt.
- Hydro-booster system for maximum clamping pressure with minimum force.
- Quick of clamping & locking and easy of operation.
- Accuracy within 0.01/100mm.
- Hydro-booster system is guaranteed for using 2 years limited.
- The hydraulic oil number is 68#
- Hydro line - one scale indicate about 1/3 of the max. clamp force.



ORDER NO.	JAW J	JAW Open		B	MAX. Clamping Force (KN)	G.W. kg
		C	C1			
VQC-100HC	35	128	196	120	30	26.34
VQC-125HC	40	205	283	140	40	42.5
VQC-160HC	50	275	361	165	60	66
VQC-160LHC	50	355	455	165	60	78.79
VQC-200LHC	70	405	505	190	60	108



ORDER NO.	A	B	a	D	P	R	G	H	J	K	L	M	N	Q	W	X	Y	C OPEN	C1 OPEN	f	i	n	CODE NO.
VQC-100HC	273	120	105	99	73	84	38.5	85	35	110	383	50	15	74	110	14	6.5	128	196	20	105	112	4005-004HC
VQC-125HC	365	140	126	124.5	78	74	66	100	40	113.5	478.5	65	21	73	135	18	7	205	283	20	215	145	4005-005HC
VQC-160HC	455	165	161	159.5	86	86	58	120	50	125.5	580.5	78	21	93	170	18	7	275	361	20	285	145	4005-006HC
VQC-160LHC	535	165	162	160	86	86	58	120	50	125.5	660.5	78	21	93	174	18	7	355	455	20	285	145	4005-007HC
VQC-200LHC	615	180	202	200	102	98	74	120	70	122	737	75	21	95	217	18	7	405	505	20	385	177	4005-008HC





PATENT

NEW



VQCV-125H-L

NEW

A GOOD POWERFUL CLAMPING WAY FOR SIDELOCK & STANDING POSITION & HEAVY CUTTING.



VQCV-125H-R

SIDE LOCK POSITION

### Features

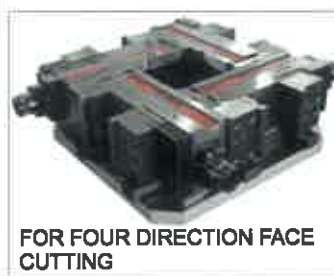
- Multiple purpose.
- Fast & Horizontal & Side setting. Heavy Duty.
- Firm & Rigid & Accurate.
- Unique design allows processing being easier.
- Fast : 2 location setting slots for locating key.
- Dust-proof : concealed spindle.
- Engraved cross shaped jaw for flat & round workpiece.
- All Parts are inter - changeable with VQC-series.
- Hydro line - one scale indicate about 1/3 of the max. clamp force.



VERTICAL SETTING



SIDE LOCK POSITION SETTING



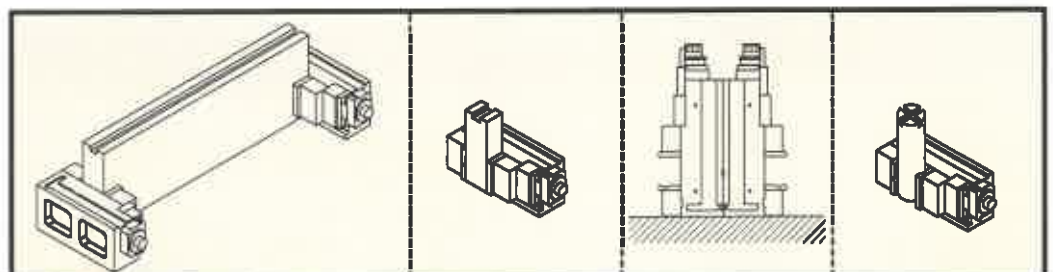
FOR FOUR DIRECTION FACE CUTTING

### BACK TO BACK ALIGNMENT

- Strong & Stable
- Fast Setting



### NEW DESIGN FOR BETTER CLAMPING WAY

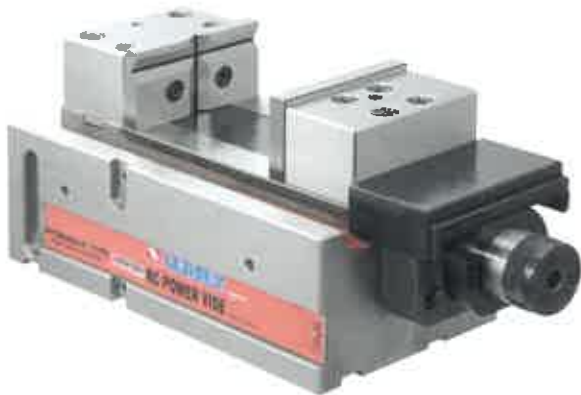


PATENT

NEW

BEST FOR VERTICAL SETTING

MC POWER VISE



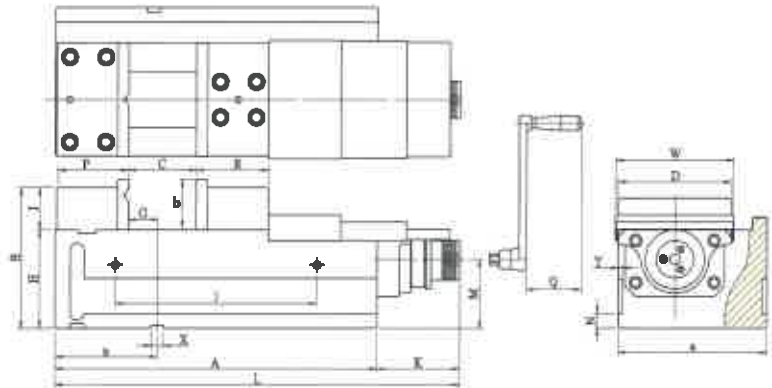
VQCV-125H-R



VQCV-125H-L



**DIMENSION DIAGRAM**



**HORIZONTAL VERTICAL POSITION**



- Strong Vertical Clamping



**L LEFT HAND , R IS RIGHT HAND**

ORDER NO.	CODE NO.
VQCV-125H - L	4005-091
VQCV-125H - R	4005-092
VQCV-160H - L	4005-093
VQCV-160H - R	4005-094

ORDER NO.	JAW b	JAW Open C	B	MAX. Clamping Force(8#KN)	G.W. kg
VQCV-125H- $\frac{L}{R}$	72	165	180	40	53
VQCV-160H- $\frac{L}{R}$	72	235	200	60	85

ORDER NO.	A	B	a	D	P	R	G	H	J	K
VQCV-125H- $\frac{L}{R}$	364	180	177	125	94	90	43	120	60	113.5
VQCV-160H- $\frac{L}{R}$	455	200	212	160	102	102	42	140	60	125.5

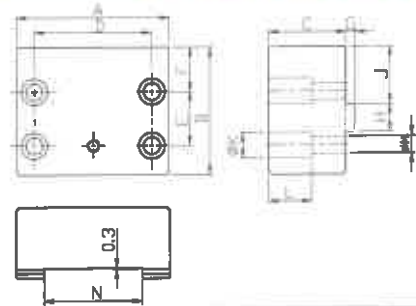
ORDER NO.	L	M	N	Q	W	X	Y	C OPEN	J	n
VQCV-125H- $\frac{L}{R}$	477.5	85	21	73	135	18	7	162	215	139
VQCV-160H- $\frac{L}{R}$	580.5	98	21	93	170	18	7	235	285	145

**OPTIONAL:** Soft jaw for different shape workpiece FJ & MJ can for cutting

FJ



Fixed side



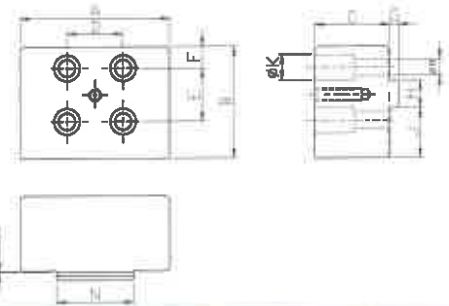
## SOFT FIXED JAW

ORDER NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	WEIGHT	CODE NO.
VQC-100FJ	99.5	73	50	76	35	19	6	18	27.5	17	26	11	55	2.97	4005-013C
VQC-125FJ	124.5	91	60	88	45	29.5	8	24	40	19	33.5	13	63	4.96	4005-014
VQC-160FJ	159.5	102	60	124	50	34	9	28	45	22	30	15	84	7.2	4005-015
VQC-160L-FJ	159.5	102	60	124	50	34	9	28	45	22	30	15	84	7.2	4005-016
VQC-200L-FJ	200	122	75	140	62	40	9	28	57	25	37	17	100	3.61	4005-016A

MJ



Movable side



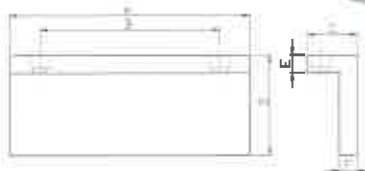
## SOFT MOVEABLE JAW

ORDER NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	WEIGHT	CODE NO.
VQC-100MJ	99.5	64	50	37	35	14.5	6	18	23	17	26	11	51.5	2.65	4005-017A
VQC-125MJ	124.5	87	60	35	42	29	8	24	38	19	33.5	13	59.5	4.73	4005-017
VQC-160MJ	159.5	102	60	56	50	34	9	28	45	22	30	15	80.5	7.25	4005-018
VQC-160L-MJ	159.5	102	60	56	50	34	9	28	45	22	30	15	80.5	7.25	4005-019
VQC-200L-MJ	200	117	75	62	59	39	9	28	54.5	25	37	17	95	13.08	4005-019A

# Soft Jaws

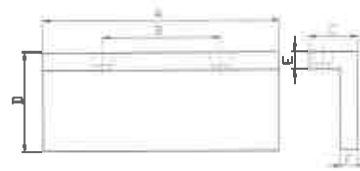


Suit for VQC & VQC-H type



## L TYPE FOR FIXED JAW

ORDER NO.	A	B	C	D	E	F	WEIGHT	CODE NO.
VQC-100FPF	100	70	37	49	15	15	0.81	4005-040
VQC-125FPF	125	80	37	54	15	15	1.06	4005-041
VQC-160FPF	160	100	42	59	15	15	1.55	4005-042
VQC-200FPF	201	150	42	84	15	15	2.56	4005-043



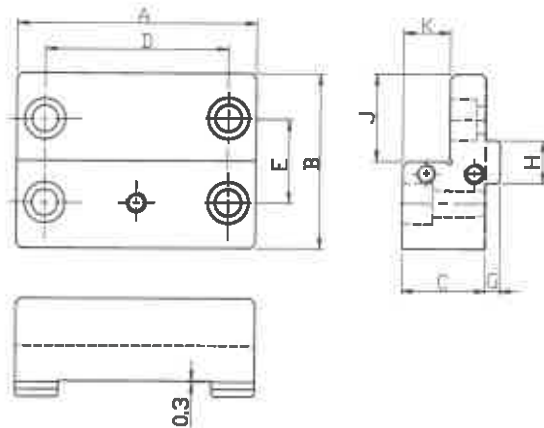
## L TYPE FOR MOVEABLE JAW

ORDER NO.	A	B	C	D	E	F	WEIGHT	CODE NO.
VQC-100FPM	100	40	37	49	15	15	0.81	4005-046
VQC-125FPM	125	50	37	54	15	15	1.06	4005-047
VQC-160FPM	160	80	42	59	15	15	1.55	4005-048
VQC-200FPM	201	100	42	84	15	15	2.56	4005-049



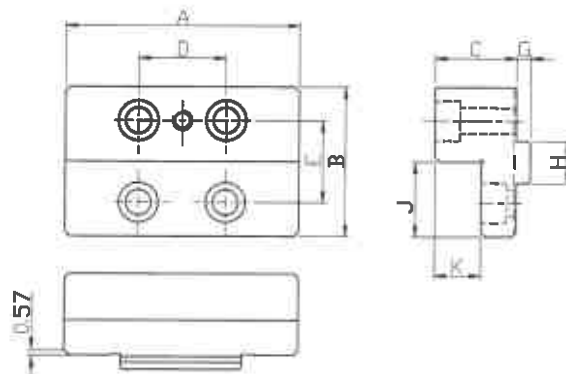
**OPTIONAL:** Hard jaw for thin type workpiece

VICE JAWS CAN TURN 180° FOR YOUR REQUIREMENT.



## L TYPE FIXED JAW

ORDER NO.	A	B	C	D	E	G	H	J	K	WEIGHT	CODE NO.
VQC-100FJL	99.5	73	35	76	35	6	18	36.5	20	1.27	4005-010B
VQC-125FJL	124.5	78	40	88	45	8	24	39	20	2.09	4005-008A
VQC-160FJL	159.5	86	50	124	50	9	28	43	25	3.78	4005-009
VQC-160L-FJL	159.5	86	50	124	50	9	28	43	25	3.78	4005-010
VQC-200L-FJL	200	102	70	140	62	9	28	51	35	7.92	4005-010A



## L TYPE MOVEABLE JAW

ORDER NO.	A	B	C	D	E	G	H	J	K	WEIGHT	CODE NO.
VQC-100MJL	99.5	64	35	37	35	6	18	32	20	1.15	4005-013B
VQC-125MJL	124.5	74	40	35	42	8	24	37	20	2.02	4005-011
VQC-160MJL	159.5	86	50	56	50	9	28	43	25	3.86	4005-012
VQC-160L-MJL	159.5	86	50	56	50	9	28	43	25	3.86	4005-013
VQC-200L-MJL	200	98	70	62	59	9	28	49	35	7.69	4005-013A



# Precision MC power Vise

PATENT

New Design For Hydro Booster  
1 Year Guarantee



for machining center

HYDRO & MECHANICAL TYPE  
GREAT SMOOTH OPERATION  
SAME HEIGHT GUARANTEE

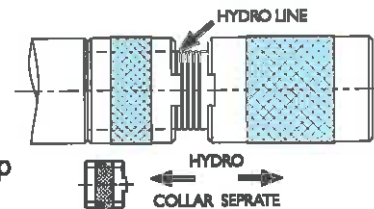
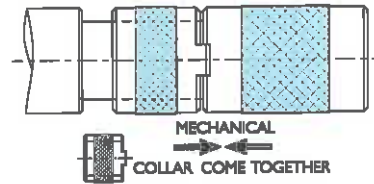


FOR THIN  
WORKPIECE

HYDRO FORCE  
INDICATOR A→H

HYDRO BOOSTER

HYDRO LINE

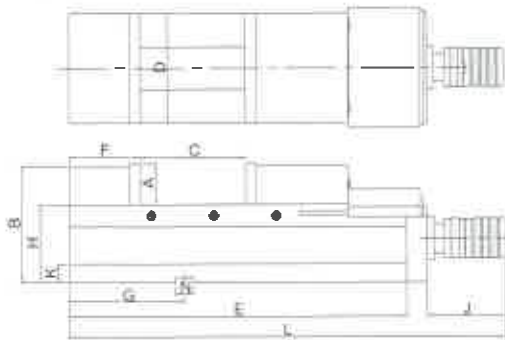


## Features

- FCD 60 with 60kgs/mm<sup>2</sup> or 80,000 psi high quality ductile cast iron - body material - reduce the cutting vibration.
- Angle-fixed design : for vertical & horizontal cutting & processing machine.
- Everlasting clamping power : choices of 2 - Hydro & MC.
- Hydro : move the handle ring to word vise.
- Mechanical : move the handle ring toward the hex. hole.
- Heavy cutting.
- Hardness > HRC 45° : vise sliding bed.
- High durebility & high precision.
- Tolerance : 0.01/100mm
- Lift proof : press down design.
- Bending resistance : rigid & strong.
- Dust proof : concealed spindle.
- Fast & easy operation.
- Hydro Ilne - one scale indicate about 1/3 of the max. clamp force.

## INSPECTION SPECIFICATION

NO.	Inspection Item	Per (100mm)	Guaranteed
1	Parallelism: running face to bottom of bed.		0.01/100mm
2	Squareness :between running face and jaw plate.		0.02/100mm
3	Squareness: keway on bottom of bed to jaw plate.		0.02/100mm
4	Parallelism: running face of the test block to bottom of bed.		0.02/100mm



## Hydraulic Type

ORDER NO.	A	B	C OPEN	D	E	F	G	H	J	K	L	M	N	Clamping Force (kgf)	Weight Body	CODE NO.
VMC-100HV	48	130	125	100	340	80	125	85	110	15	470	101	16	3000	27 kgs	4005-060
VMC-130HV	55	147	180	130	405	85	150	95	110	21	535	131	18	4000	40 kgs	4005-061
VMC-160HV	58	168	240	160	495	100	165	105	110	21	625	161	18	5000	58 kgs	4005-062
VMC-200HV	61	170	280	200	570	118	190	110	110	21	700	201	18	6000	87 kgs	4005-063
VMC-160HVL	58	168	350	160	610	100	165	105	110	21	740	161	18	5000	75 kgs	4005-059



# Precision Compact MC Vise



**SAME HEIGHT GUARANTEE**

**for machining center**

**Mechanical Type**  
**Great Smooth Operation**

**DESIGN FOR THIN WORKPIECE**



MC POWER VISE

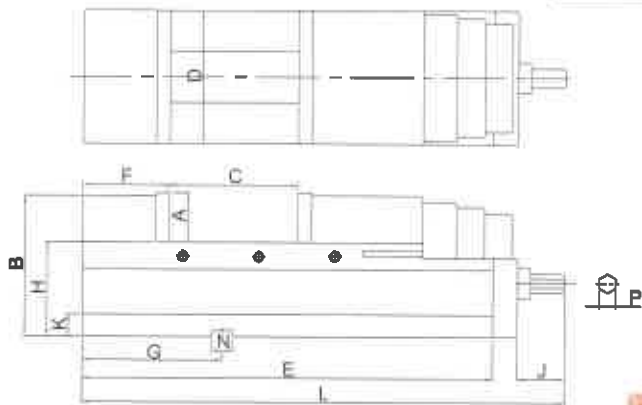
## Features

- FCD 60 high quality ductile cast iron - body material - reduce the cutting vibration.
- Angle-fixed design : for vertical & horizontal cutting & processing machine.
- Everlasting clamping power.
- Heavy cutting.
- Hardness > HRC 45° : vise sliding bed.
- High durability & high precision.
- Tolerance : 0.01/100mm
- Lift proof : press down design.
- Bending resistance : rigid & strong.
- Dust proof : concealed spindle.
- Fast & easy operation.

**EXP.**



**EXP.**



## Mechanical Type

ORDER NO.	A	B	C OPEN	D	E	F	G	H	J	K	L	M	N	P	Clamping Force (kgf)	Weight Body	CODE NO.
<b>VMC-100M</b>	48	130	125	100	340	80	125	85	55	15	425	101	16	19	3000	26 kgs	4005-064
<b>VMC-130M</b>	55	147	180	130	405	85	150	96	55	21	490	131	18	19	3000	39 kgs	4005-065
<b>VMC-160M</b>	58	168	240	160	495	100	165	105	55	21	580	161	18	19	3000	57 kgs	4005-066
<b>VMC-200M</b>	61	170	280	200	570	118	190	110	55	21	655	201	18	19	3000	86 kgs	4005-067
<b>VMC-160ML</b>	58	168	340	160	595	100	165	105	55	21	680	161	18	19	3000	67 kgs	4005-058



NEW



**COMPARE WITH SAME WIDTH VISE JAW, VNC TYPE HAS THE BIGGEST OPENING CAPACITY.**

## Features

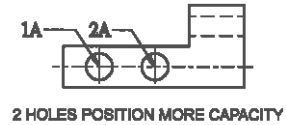
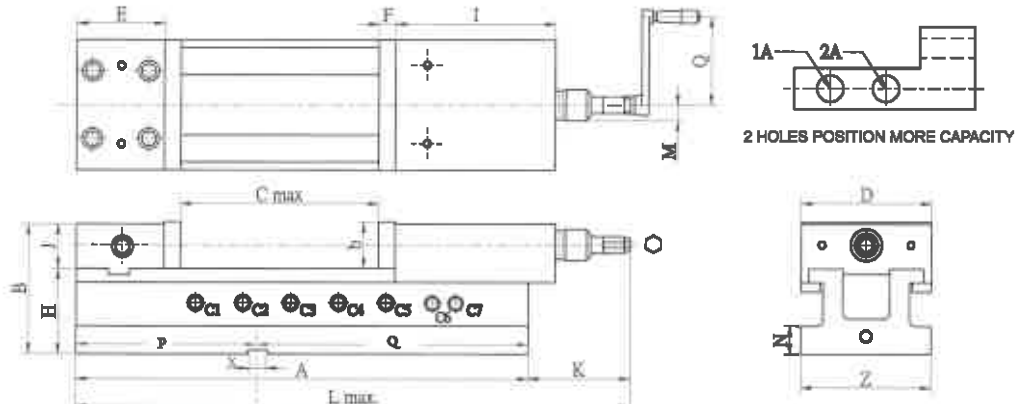
- Hydro-booster system for maximum clamping pressure with minimum force.
- Sliding bed ways flame hardened and ground.
- Compact design. Great clamping capacity. Light & smooth operation.
- Body is made of FCD60 ductile cast iron, High deflection/bending resistant.
- Constructed for machining center, milling, drilling, grinding and many other machine shop applications.
- Hydro line - one scale indicate about 1/3 of the max. clamp force.



Hydraulic controller:  
provide stable pressure,  
Hydro indexer. Protect the hydro system.  
Hydro limit proof reference scale.



**Accessories:**



ORDER NO.	C MAX. Open	MAX. Clamping Force KN	L MAX. mm	Opening Size For Capacity							
					C1	C2	C3	C4	C5	C6	C7
VNC-100H	205	25	464	1A	2-30	57-90	115-146	173-205	-	-	-
				2A	0-3	28-60	86-116	145-175	-	-	-
VNC-125H	225	40	556	1A	10-46	70-106	130-166	190-226	-	-	-
				2A	0-12	38-72	98-132	158-192	-	-	-
VNC-160H	310	50	684	1A	13-70	93-150	173-230	253-310	-	-	-
				2A	0-30	53-110	133-190	213-270	-	-	-
VNC-160LH	509	50	884	1A	13-70	93-150	173-230	253-310	333-390	410-470	450-510
				2A	0-30	53-110	133-190	213-270	293-350	370-430	410-470

ORDER NO.	A	B	D	E	F	b	H	J	N	I	Z	X	P	Q	Weight (kgs)	CODE NO.
VNC-100H	380	107	100	67	13	38	70	37	24	133	100	14	152	228	23	4005-100
VNC-125H	432	126	124	85	15	45	82	44	27	147	125	18	174	258	37	4005-101
VNC-160H	550	148	159	102	18	54	95	53	27	189	160	18	219	331	63	4005-102
VNC-160LH	750	148	159	102	18	54	95	53	27	189	160	18	219	531	77	4005-103



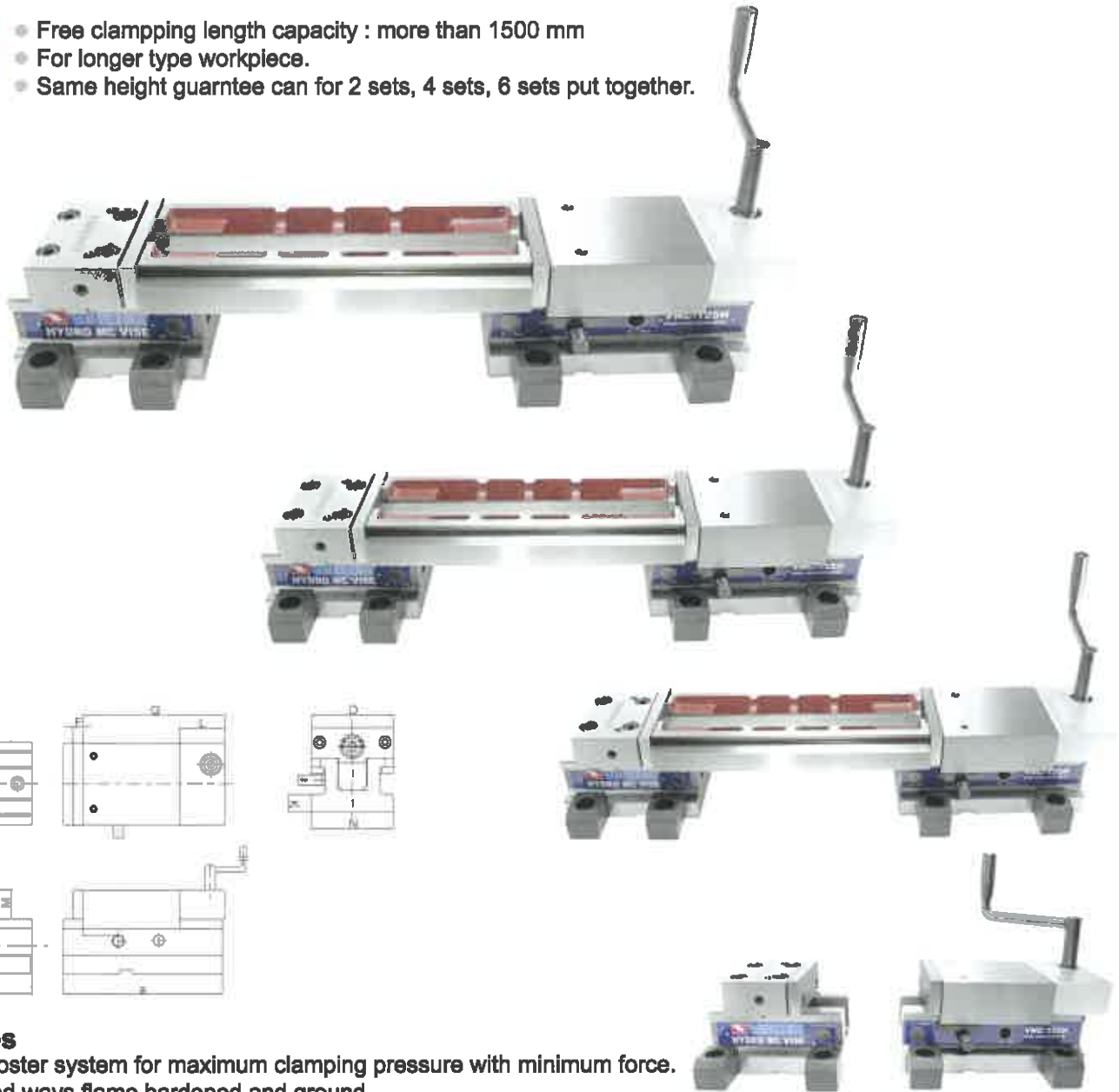


# Combination MC Power Free Vise



**NEW**

- Free clamping length capacity : more than 1500 mm
- For longer type workpiece.
- Same height guarantee can for 2 sets, 4 sets, 6 sets put together.



## Features

- Hydro-booster system for maximum clamping pressure with minimum force.
- Sliding bed ways flame hardened and ground.
- Compact design. Great clamping capacity. Light & smooth operation.
- Body is made of FCD60 ductile cast iron, High deflection/bending resistant.
- Constructed for machining center, milling, drilling, grinding and many other machine shop applications.
- Free setting style.
- Handle : horizontal & vertical.
- Allow to clamp longer workpiece.



ORDER NO.	A	a	B	C	D	E	F	G	H	J	K	L	M	N	Weight kgs
VNC-100FV	150	228	103	14	99	67	13	133	70	33	24	76	34	100	19
VNC-125FV	180	250	126	18	124	85	15	147	82	44	27	78	45	125	37
VNC-160FV	200	280	148	18	159	102	18	189	95	53	27	90	54	160	63

ORDER NO.	JAW WIDTH	JAW HEIGHT	BASE HEIGHT	GUIDE BLOCK	JAW STROKE	MAX CLAMPING FORCE(KN)	CODE NO.
VNC-100FV	100	38	70	14	90	20	4005-106
VNC-125FV	125	45	82	18	106	30	4005-107
VNC-160FV	160	54	95	18	150	40	4005-108

**NEW**

**OPTIONAL :**

Accessories For VNC Only

**AXIAL DRIVE:**



INSTALL EXAMPLE

\*Vise does not included

- No more blocking.
- Better flexibility.
- Transfer to vertical drive.
- Extend functions.
- Compact design.
- Provide better escape while clamping.
- 90° horizontal to vertical drive.
- Light Weight & easy to install & take off.

NC HYDRO MACHINE VISE



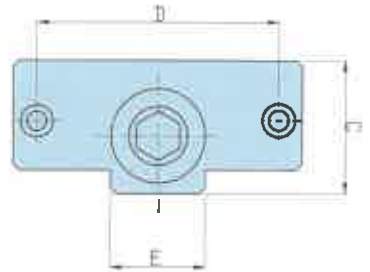
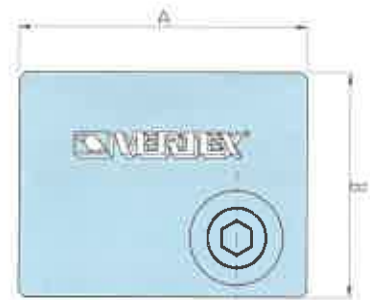
VNC-4AD



VNC-5AD



VNC-6AD



**OPTIONAL : AXIAL DRIVE**

ORDER NO.	A	B	C	D	E	G.W. (KG)	CODE NO.
VNC-4AD	98	76	45	82	32	1.57	4005-111
VNC-5AD	124	78	52	96	40	2.08	4005-112
VNC-6AD	158	90	61.5	126	46	2.97	4005-113

**PLAIN JAW:**

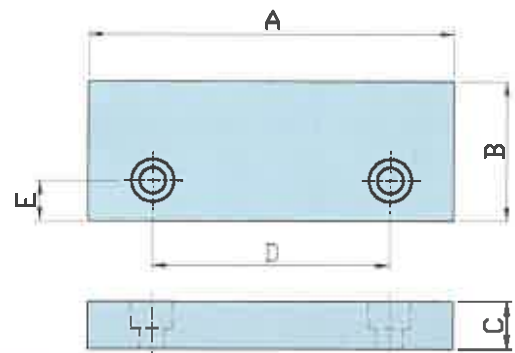


PLAIN JAW



INSTALL EXAMPLE

- Spare jaw (2 piece per set)
- Accurate Hardened, Ground



**OPTIONAL : PLAIN JAW** 2pcs / set

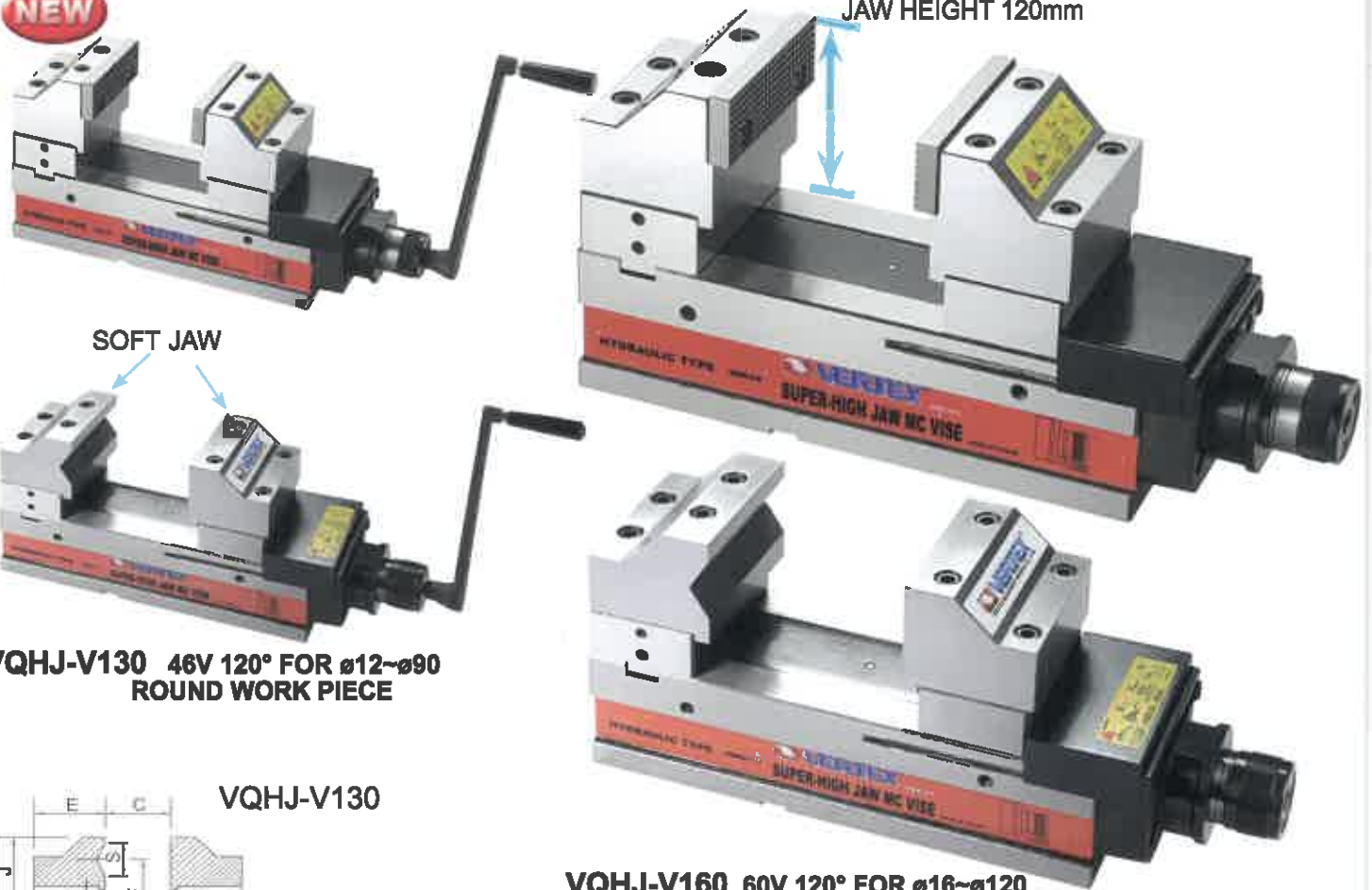
ORDER NO.	A	B	C	D	E	G.W. (KG)	CODE NO.
VNC-4PJ	100	38	13	65	11	1.3	4005-121
VNC-5PJ	125	45	15	80	14	1.5	4005-122
VNC-6PJ	160	54	18	100	17	2.6	4005-123



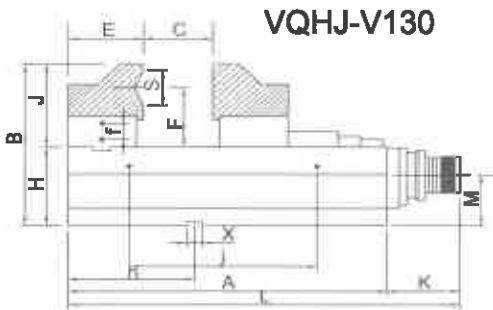
# Super-High Jaw MC Vise



**NEW**

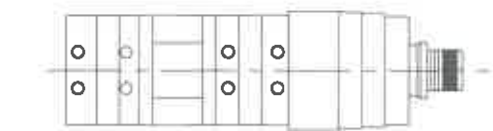


**VQJH-V130 46V 120° FOR  $\phi 12 \sim \phi 90$  ROUND WORK PIECE**

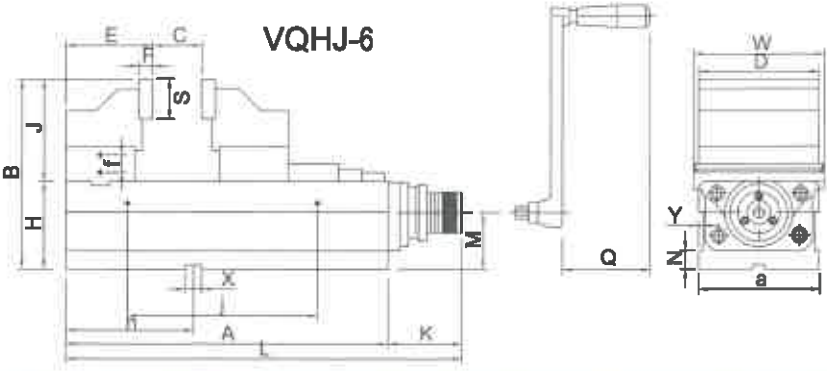


**VQJH-V130**

**VQJH-V160 60V 120° FOR  $\phi 16 \sim \phi 120$  ROUND WORK PIECE**



**VQJH-6**



**MAX. CLAMPING FORCE**

ORDER NO.	FORCE (KN)
VQJH-5	24
VQJH-6	36
VQJH-V130	24
VQJH-V160	36

**VQJH-V130 / V160**

- V SHAPE HIGH JAW FOR ROUND WORKPIECE.
- CLAMPING POWER WILL REDUCE WHEN CLAMPING ROUND WORKPIECE.
- ALWAYS REMOVE HANDLE AFTER WORKPIECE IS TIGHTENED.

**Features**

- High jaw allows bigger clamping capacity.
- Strong clamping jaw plates.
- Compact design. Great clamping capacity & rigid.
- Large jaw stroke range.
- Exclusive Power Vise provide same height same position for horizontal and vertical MC, NC, achine.
- Body is made of FCD60 high quality ductile cast iron, resists deflection or bending.
- Sliding bed ways flame hardened and ground.
- Concealed spindle for protection against chips and dirt.
- Quick of clamping & locking and easy of operation.
- Clamping power will reduce 20% while clamping at higher position.
- Hydro line-one scale indicate 1/3 of the max. clamp force.

ORDER NO.	A	B	C open	a	D	E	F	H	J	K	L	M	N	Q	W	X	S	Y	f	j	n	WEIGHT (kgs)	CODE NO.
VQJH-5	365	223	160	126	124.5	103	15	100	123	113.5	478.5	65	21	73	135	18	45	7	20	215	145	51.8	4005-201
VQJH-6	455	249	225	161	159.5	108	18	120	129	125.5	580.5	78	21	93	170	18	54	7	20	285	145	85.8	4005-202
VQJH-V130	365	220	180	126	124.5	90	80	100	120	113.5	478.5	65	21	73	135	18	46	7	20	215	145	51.8	4005-203
VQJH-V160	455	225	250	161	159.5	98	85	120	125	125.5	580.5	78	21	93	170	18	60	7	20	285	145	85.8	4005-204

# Precision Pneumatic Ang-Fixed Power Vise

**SAME HEIGHT GUARANTEE**

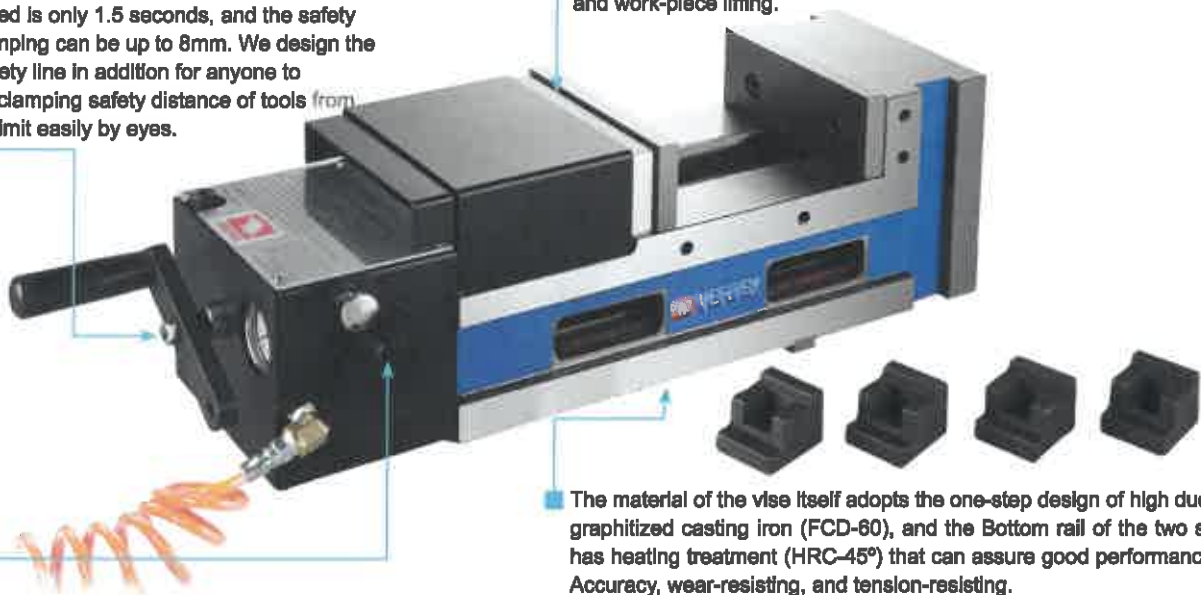
Suitable for Mass production and to be used on machine centers, milling machines, drilling machines and special purpose machines.

ANG-FIXED POWER VISE

The greatest safety distance of clamping:

The switch speed is only 1.5 seconds, and the safety distance of clamping can be up to 8mm. We design the hand wheel safety line in addition for anyone to distinguish the clamping safety distance of tools from exceeding the limit easily by eyes.

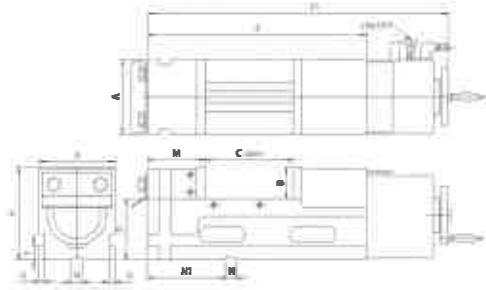
Down trust "semi-spherical segment" mechanism eliminates jaw lifting and work-piece lifting.



The material of the vise itself adopts the one-step design of high ductility graphitized casting iron (FCD-60), and the Bottom rail of the two sides has heating treatment (HRC-45°) that can assure good performance on Accuracy, wear-resisting, and tension-resisting.

Regulator: If the air pressure is low, 8 kgf/cm<sup>2</sup>, it can still achieve the super strong clamping capacity of 9000 kg/cm<sup>2</sup>. The clamping capacity from 0~9000 kg/cm<sup>2</sup> can be set freely and adjust via pressure regulator.

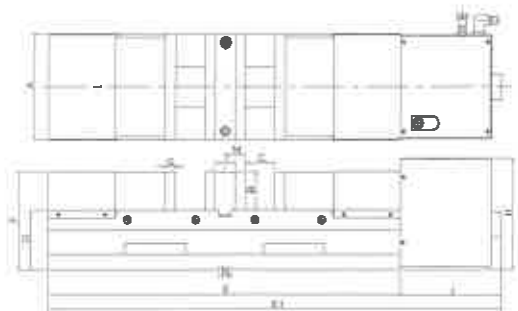
Automatically seeking the highest source of air pressure: When the required pressure was set, it will not loose under low air pressure.



ORDER NO.	A	B	C OPEN	D	E	E1	F	G	H	M	N	N1	Max. Clamp Force (kgf)	N.W. (kgs)	CODE NO.
VMC-5P	130	55	150	105	380	520	25	9	160	100	18	136	6000	38	4005-070
VMC-6P	160	58	160	105	400	540	25	9	163	100	18	136	6000	48	4005-071
VMC-6PL	160	58	250	105	490	630	25	9	163	100	18	136	6000	51	4005-072
VMC-7P	180	63	200	110	460	600	25	12	173	108	18	171	9000	65	4005-073
VMC-8P	200	63	200	110	470	610	25	12	173	108	18	171	9000	70	4005-074
VMC-8PL	200	63	300	110	570	710	25	12	173	108	18	171	9000	79	4005-075



**Feature:**  
Double clamp function for massive production.



## Double Clamp TYPE

Unit:mm

ORDER NO.	A	B	C OPEN	D	E	E1	F	G	H	I	J	N	Max. Clamp Force (kgf)	N.W. (KG)	G.W. (KG)	CODE NO.
VMC-6PD	160	58	0-100	90	530	682	148	15	168	30	152	18	4000	63	66	4005-085



# Convenient Type Machine Vise

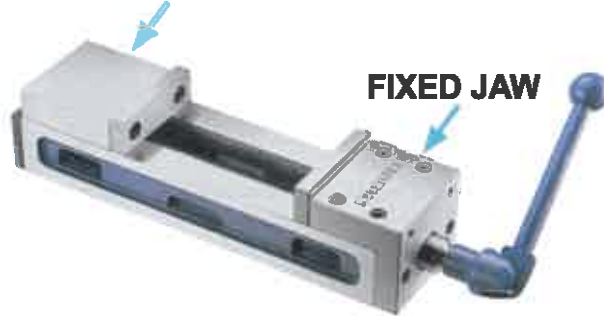


**NEW**

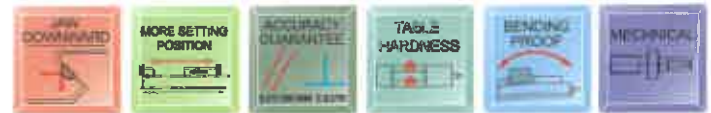
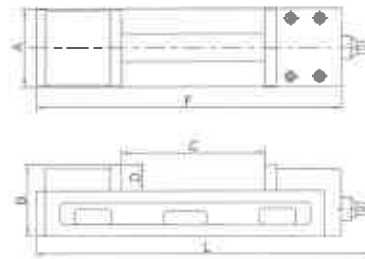


**MOVEABLE JAW**

**FIXED JAW**



- Moveable jaw located at outer end and align surface for workpiece is in front of operator. It is convenient for loading or unloading workpiece on such design of vise.
- The overall length of this vise is shorter than other similar vises, but keep the more jaw opening. Save space on work table.
- Extra opened
- Semi-spherical segment eliminates jaw lifting and workpiece tilting.
- Time & energy saving
- Width 100 mm opened 180 mm.



ORDER NO.	A	B	C OPEN	D	E	F	L	Max. Clamp Force (kgf)	Weas (kgs)	CODE NO.
<b>VCM-47</b>	108	98	180	36	62	420	470	450	17.7	4005-080

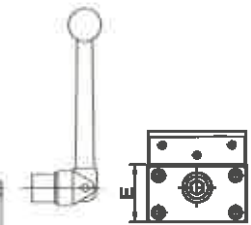
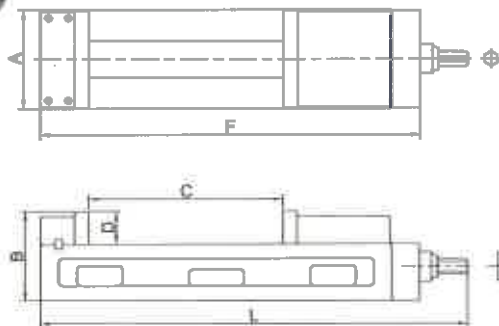


# Super Open Ang-Fixed Machine Vise

**NEW**



- The overall length of this vise is shorter than other similar vises, but keep the more jaw opening. Save space on work table.
- Semi-spherical segment eliminates jaw lifting and workpiece tilting.
- Vise bed frame hardend to HRC up is capable to obtain low weariness and last the high accuracy for long.
- Chip covers is applied on this vise to prevent from chips falling to leadscrew and inside of vise.
- Width 100 mm opened 210 mm super open.



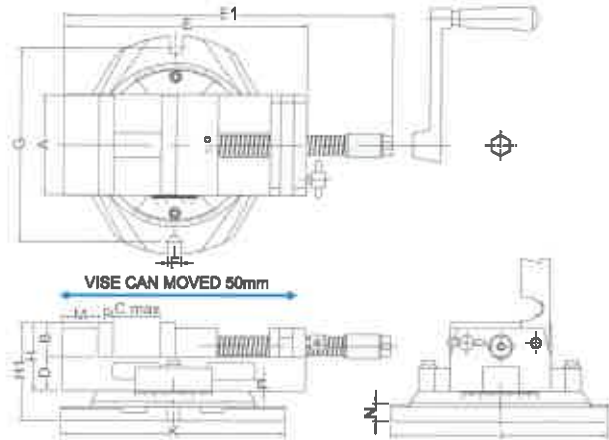
ORDER NO.	A	B	C OPEN	D	E	F	L	Max. Clamp Force (kgf)	Weas (kgs)	CODE NO.
<b>VMC-4L</b>	108	98	203	36	62	420	470	450	17.3	4005-095

# Horizontal Moving Quick Vise **VERTEX**

## 2 WAY MOVING

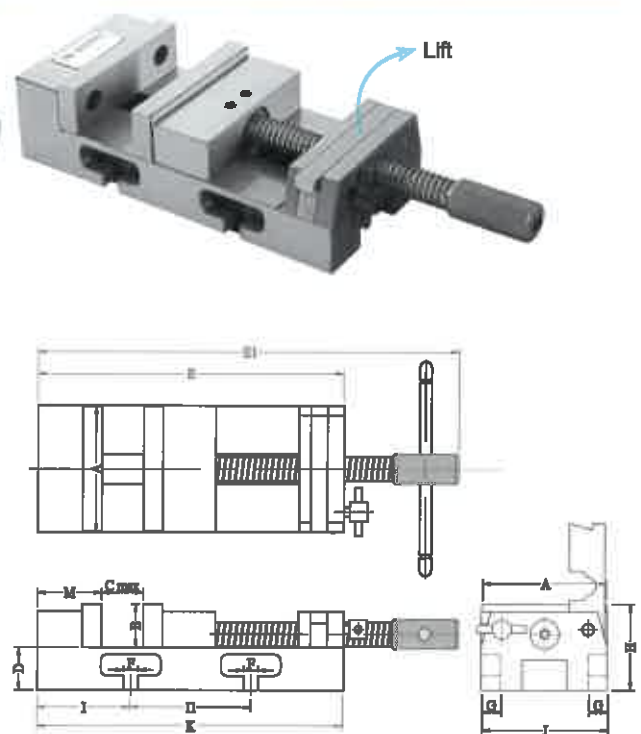
- Special design, for milling M/C, drilling M/C.
- Easy & quick to find process position.
- For round table drilling machine. If it don't have cross table.
- 360° rotation

QUICK VISE



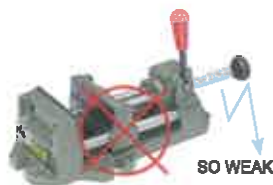
ORDER NO.	A	B	C max.	D	E	E1	F	G	H	H1	J	K	M	N	P	MAX.Clamp Force kgf	G.W.	CODE NO.
<b>VQW-80</b>	81	34	85	36	230	374	14	214	70	100	242	230	28	30	12	700	13.5	1002-245
<b>VQW-100</b>	105	36	104	36	256	422	16	264	72	106	303	272	37	34	16	800	15.8	1002-246
<b>VQW-130</b>	131	36	125	38	297	490	16	264	74	108	303	272	38	34	29	800	22.7	1002-247

# Quick Setting Vise



## Features

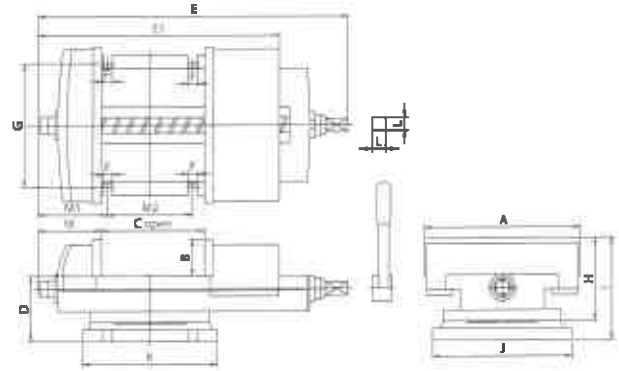
- Special design for quick clamping. (From the acme thread shaft stationly)
- Quick setting by sliding movement. Big clamping capability.
- Operating very quick and easy, can increase so much working efficiency than you can image.
- Good for short term and massive production or proto type work.
- Suit for milling machine, grinder machine, precision drilling machine using.
- Accurate grounded and assembled.
- Precision cut acme thread, it can get 800kgs high clamping force.
- Horizontal & vertical
- Accuracy 0.02 / 100 mm



ORDER NO.	A	B	C max.	D	E	E1	F	G	H	I	H1	J	K	M	MAX.Clamp Force kgf	G.W.	CODE NO.
<b>VQS-3</b>	81	34	85	36	230	374	10	14	70	75	80	82	230	50	700	7	1002-262
<b>VQS-4</b>	105	36	104	36	256	422	12	16	72	78	100	106	256	54	800	9.5	1002-263
<b>VQS-5</b>	131	36	125	38	297	490	12	20	74	98	100	132	297	67	800	14.5	1002-264



# Machine Vise For Shaping & Milling Use



The vise is made of the high tension cast iron, rigidity, large range of clamping spans and more bigger clamping force at press down jaws, especially suitable for the heavy duty cutting and the heavy duty planner milling machine to clamp large workpiece.

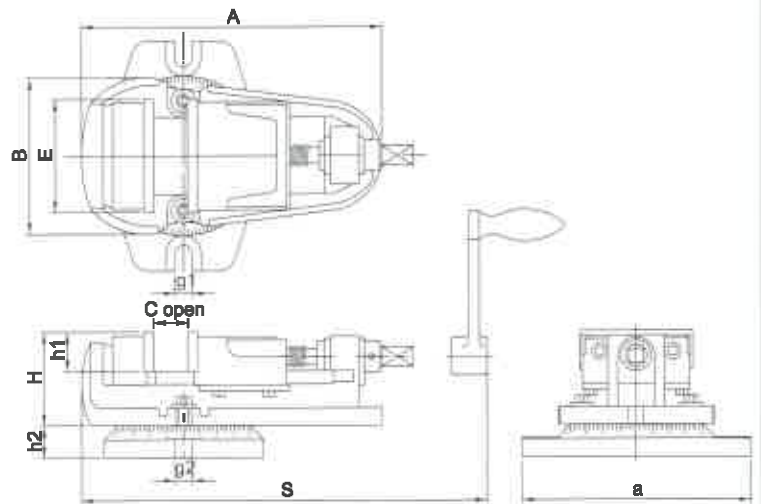
Unit:mm



ORDER NO.	A	B	C OPEN	D	E	E1	F	G	H	I	J	K	L	M	M1	M2	Max. Clamp Force (kgf)	G.W. (kgs)	CUFT (cm)	CODE NO.
VSM-12	304	72	290	126	604	560	18	240	161	198	272	260	25	123	135	165	800	84	67x35x23	1002-270
VSM-16	405	96	415	145	763	738	20	292	200	241	338	336	25	135	143	248	1000	142	84x45x27	1002-271
VSM-20	508	95	505	150	902	871	21	288	204	245	336	336	25	169	211	246	1200	200	97x56x28	1002-272



## B-Type Milling Vise

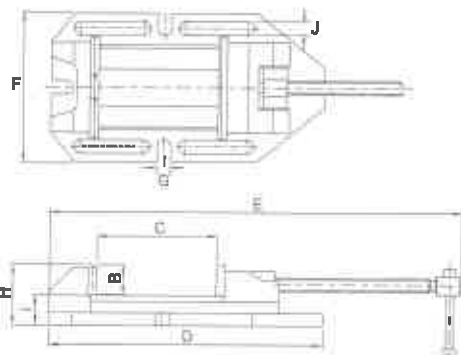


- A wider bottom to increase clamping force.
- Groove device to collect cutting oil.
- Full 360° swivel base with line, accurate graduation.
- In order to ensure the accuracy when using it' better that don't put swivel base together



ORDER NO.	A	B	E	H	C OPEN	S	a	h1	h2	g1	g2	Max. Clamp Force (kgf)	G.W. kgs	CODE NO.
VBV-4	270	140	100	79	65	305	212	33	28	12	12	900	13	1002-280
VBV-5	350	180	125	96	100	410	280	37	35	15	15	900	21.5	1002-281
VBV-6	452	218	160	103	132	483	317	48	40	16	16	1000	41	1002-282

**NEW**



- Big opened.
- Big clamping capacity.
- With prisma jaw for round workpiece.
- For drilling & milling using.

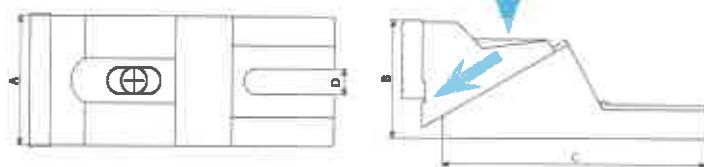
Unit:mm

ORDER NO.	A	B	C OPEN	D	E	F	G	H	I	J	V	MAX.Clamp Force kgf	G.W. (kgs)	CFT (cm)	CODE NO.
VRV-4	110	32	130	316	471	179	16	73	40	16	5-32	450	9.8	32.3 x 13.3 x 12.9	1002-320
VRV-5	135	40	160	366	552	207	16	81	40	16	6-40	650	14.0	32.3 x 13.3 x 12.9	1002-321
VRV-6	160	50	220	447	693	247	16	96	45	16	7-48	900	25.7	32.3 x 13.3 x 12.9	1002-322

## Free Vise



- FV type is light duty.
- Free style clamping For big workpiece.
- Adjustable distance 15mm For clamping.

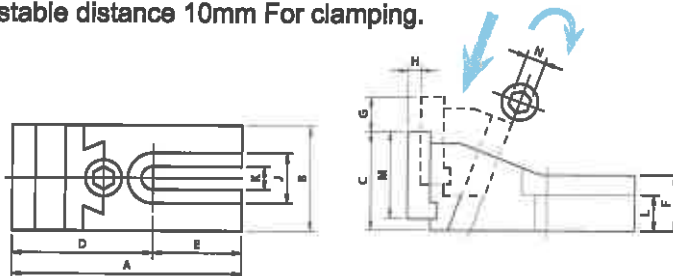


Unit:mm

ORDER NO.	DIMENSION (WxHxL)	CLAMPING CAPACITY (HxL)	ACCESSORIES BOLT SIZE	MAX.Clamp Force kgf	WEIGHT (kgs/2PCS)	CODE NO.
FV-350	75x67x150mm	140x350mm	M12 x 75L x 2PCS. M12 x 125L x 2PCS	900	7.5	1002-290
FV-450	100x90x200mm	180x450mm	M12 x 75L x 2PCS. M12 x 125L x 2PCS	900	14	1002-291
FV-550	125x120x250mm	250x550mm	M16 x 75L x 2PCS. M16 x 125L x 2PCS	900	23	1002-292



- Free style clamping For big workpiece.
- Heavier duty.
- Adjustable distance 10mm For clamping.



Unit:mm

ORDER NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	MAX.Clamp Force kgf	ACCESSORIES BOLT SIZE	N.W. (kgs)	CODE NO.
SV-62	139	64	59.5	85	54	33.5	21	9	30.5	18	22	52.5	12	1800	M12 x 75L x 4PCS	5.8	1002-293
SV-85	192	86.5	86	115	77	53	24	10	36	18	25.5	59.5	12	1800	M16 x 75L x 4PCS	11	1002-294
SV-125	218	127	84	124	94	51.5	33	18	45.5	20	23.5	73	12	1800	M16 x 75L x 4PCS	21	1002-295

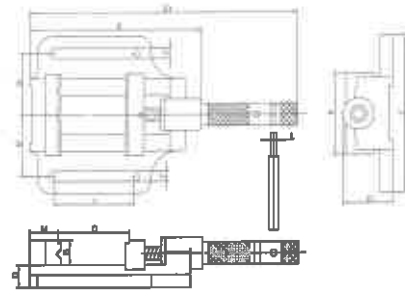




# Drill Vise



NEW



- Designed with solid structure, main body is made of FC15, assemble a pair of heat treated steel jaws with hardness HRC 45°~50°
- Suitable for clamping work piece on drill press machine & milling machine
- Jaw pair and handle are surface treated by black oxide finish
- Front fixed prismatic jaw with cross V-grooves is designed for clamping work piece firmly in both vertical & horizontal directions

ORDER NO.	A	B	C OPEN	D	E	E1	F	G	H	I	J	L	M	WEIGHT	CODE NO.
DV-85	84	25	85	27	182	287	12	64	58	80	167	8	32	3.5	1015-041
DV-100	104	31	100	28.5	220	343	13	78	63	102	200	8	36	5.7	1015-042
DV-120	132	38	120	32	250	395	14	91	71	127	226	9.5	45	8.2	1015-043

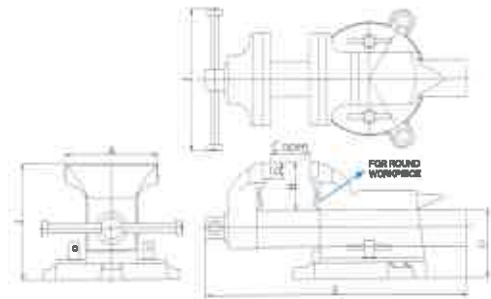


# Steel Bench Vise With Base

NEW



360° SWIVING BASE



mm

ORDER NO.	A	B	C OPEN	D	E	G	I	J	Clamp Force (kgf)	WEIGHT (kgs)	CODE NO.
BVV-3	79	51	75	87	280	18	138	178	1300	6	1002-330
BVV-4	104	61	100	87	310	18	148	178	1800	7	1002-331
BVV-5	127	68	125	93	370	22	165	198	2300	10.5	1002-332
BVV-6	154	78	150	108	420	22	183	228	2800	14	1002-333
BVV-8	205	87	200	115	500	22	202	238	3000	18	1002-334
BVV-10	253	100	250	114	570	22	220	263	3000	24	1002-335



# Quick Bench Vise

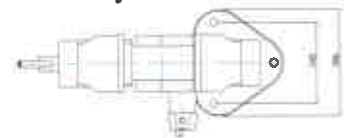
ORDER NO.VQS-40 CODE NO.1002-096

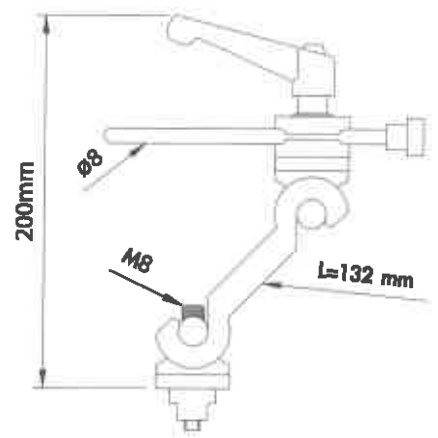
NEW



QUICK ACTION HANDLE

- Hardened & Ground Jaw
- Jaw Width 100 mm
- Jaw Height 29 mm
- Opened Capacity 100 mm
- 8 mm Distance of Quick Clamping System
- Can Be Move By Handle & By Quick Action Arm
- Weight: 13.3 kgs



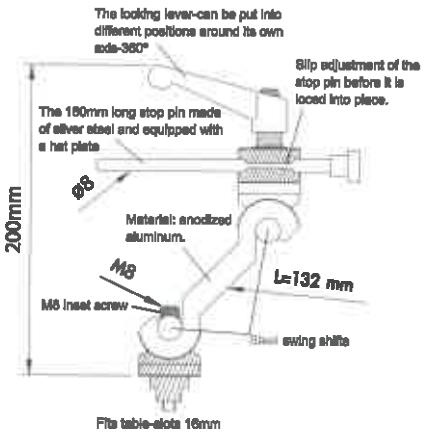


**NON TEETH TYPE**  
**ORDER NO. VWS-123**  
**CODE NO. 1002-105**  
**WEIGHT: 0.9kg**  
**T-SLOT: 16mm**

**TEETH TYPE**  
**ORDER NO. VWS-125**  
**CODE NO. 1002-106**  
**WEIGHT: 1.1kg**  
**T-SLOT: 16mm**

ORDER NO.	CODE NO.
VWS-123	1002-105
VWS-125	1002-106

It is fixed and secured by its rigid serration without skid.  
 (300kg bump is permanent)

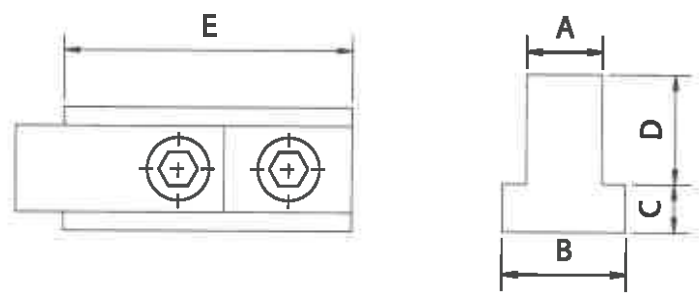


## T Slot Clamps

PATENT

For Thin Work Piece

NEW



- 1 Set consist of 4 vices.
- For thin or small workpiece.
- Good clamping force.
- Quick setting
- Suit for light duty cutting on the milling drilling / EDM machine.



ORDER NO.	A	B	C	D	E	N.W.	CODE NO.
CK-3712	11.5	18	7	16	42	0.6	1002-311
CK-3714	13.5	22	8	18	42	0.7	1002-312
CK-3716	15.5	25	10	20	45	0.9	1002-313
CK-3718	17.5	28	11	24	45	1.1	1002-314
CK-3720	19.5	32	12	26	53	1.5	1002-315



# Universal Jaws With Soft Stopper

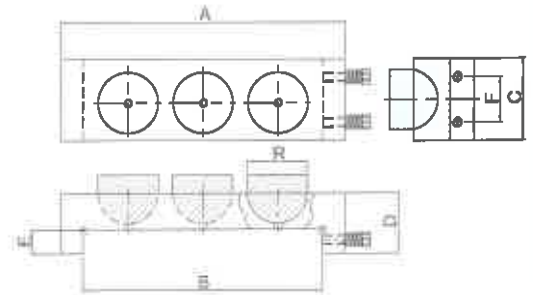


NEW

SOFT JAW



SOFT STOPPER



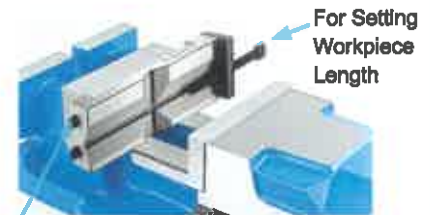
- The soft stopper can for cutting short.
- Semi-sphere ball enables down press force.
- For irregular workpiece.
- Easy setting, put on the moving jaw. B is vise jaw width.



ORDER NO.	A	B	C	D	R	WEIGHT kgs	CODE NO.
VWSJ-R100	145	110	49	38	40		1002-174
VWSJ-R130	175	140	49	39	40		1002-175
VWSJ-R160	190	160	54	40	40		1002-176
VWSJ-R200	245	210	76	42	40		1002-177



# Universal Vise Jaws With Work Stopper

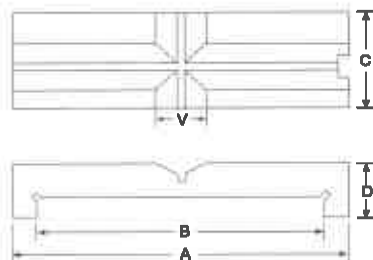


For Fixed On The Vise Jaw

Extenslon clamping capacity:  
vise jaw width 30-45mm  
vise jaw height 7-15mm

## ORDER NO. VWSJ-4, 5, 6, 8

- Can be fixed on any vise jaw by the two screws on the side.
- One jaw in multiple- function features.
- V-type jaw can fix round workpiece at horizontal and vertical position.
- Can be performed as work stopper.
- Quick, save your time.



- 4 FOR THE JAW WIDTH 100-110mm
- 5 FOR THE JAW WIDTH 125-140mm
- 6 FOR THE JAW WIDTH 150-160mm
- 8 FOR THE JAW WIDTH 200-210mm

ORDER NO.  
VWSJ-□ — VISE JAW SIZE



ORDER NO.	A	B	C	D	V	WEIGHT kgs	CODE NO.
VWSJ-4	145	110	49	38	32	1.6	1002-170
VWSJ-5	175	140	49	39	32	1.7	1002-171
VWSJ-6	190	160	53	40	32	2	1002-172
VWSJ-8	245	210	76	42	32	4.2	1002-173



ORDER NO.  
 VWS-VK-4.5.6.8  
 VWS-VA-4.5.6.8  
 VWS-VH-4.5.6.8  
 VWS-VJ-400.500.600

WWS-VW-3.4.5  
 WWS-VMC-4.6  
 WWS-VQS-3.4.5

ORDER NO.	kgs	CODE NO.
VWS-VK-4	0.26kg	1002-110
VWS-VK-5	0.36kg	1002-111
VWS-VK-6	0.46kg	1002-112
VWS-VK-8	1.16kg	1002-113

ORDER NO.	kgs	CODE NO.
VWS-VW-3	0.21kg	1002-120
VWS-VW-4	0.36kg	1002-121
VWS-VW-5	0.44kg	1002-122

ORDER NO.	kgs	CODE NO.
VWS-VA-4	0.4kg	1002-130
VWS-VA-5	0.51kg	1002-131
VWS-VA-6	0.96kg	1002-132
VWS-VA-8	1.76kg	1002-133

ORDER NO.	kgs	CODE NO.
VWS-VMC-4	0.35kg	1002-140
VWS-VMC-6	0.4kg	1002-141

ORDER NO.	kgs	CODE NO.
VWS-VJ-400	0.36kg	1002-163
VWS-VJ-500	0.58kg	1002-164
VWS-VJ-600	0.9kg	1002-165

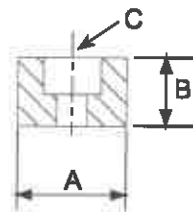
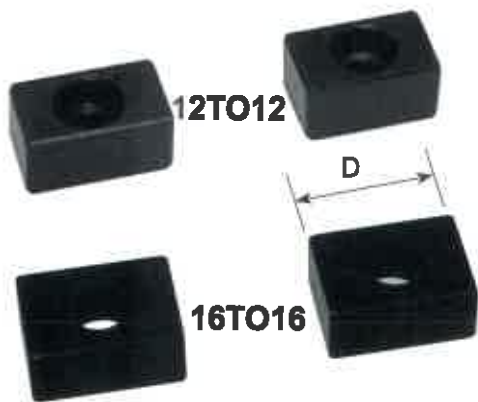
ORDER NO.	kgs	CODE NO.
VWS-VH-4	0.44kg	1002-150
VWS-VH-5	0.70kg	1002-151
VWS-VH-6	0.88kg	1002-152
VWS-VH-8	1.78kg	1002-153

ORDER NO.	kgs	CODE NO.
VWS-VQS-3	0.3kg	1002-160
VWS-VQS-4	0.42kg	1002-161
VWS-VQS-5	0.51kg	1002-162

SCREW GUIDE BLOCK

## Thread Rod Guide Block

For vise

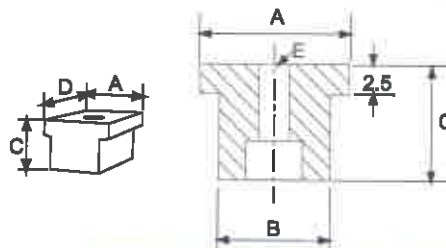


- For quick vise setup
- Multi - Purpose
- 4 PCS / SETS
- Match vise with Machine table slot
- Material: S45C

ORDER NO.	A	-0.01 -0.08	B	C For	D	WEIGHT kgs	CODE NO.
12TO12	12		10	M4	20	0.07	1002-370
14TO14	14		10	M5	20	0.07	1002-371
16TO16	16		10	M6	22	0.09	1002-372
18TO18	18		12	M6	22	0.13	1002-373
20TO20	20		12	M6	24	0.20	1002-374

## Thread Rod Guide Block

For vise

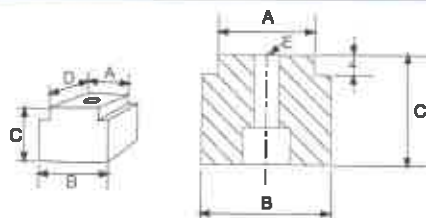


- For quick vise setup
- Multi - Purpose
- 4 PCS / SETS
- Material: S45C

ORDER NO.	A	-0.01 -0.08	B	-0.01 -0.08	C	D	E	WEIGHT kgs	CODE NO.
16TO14	16		14		14	20	M6	0.10	1002-350
18TO14	18		14		16	20	M6	0.12	1002-351
18TO16	18		16		16	20	M6	0.13	1002-352

## Thread Rod Guide Block

For vise



- For quick vise setup
- Multi - Purpose
- 4 PCS / SETS
- Material: S45C

ORDER NO.	A	-0.01 -0.08	B	-0.01 -0.08	C	D	E	WEIGHT kgs	CODE NO.
14TO16	14		16		14	20	M6	0.12	1002-361
14TO18	14		18		16	20	M6	0.13	1002-362
16TO18	16		18		16	20	M6	0.15	1002-363

# 52-PCS Steel Clamping Kit



58 PCS/SET

## Specifications

Inch Size

ORDER NO.	Table Slot	Stud Size	G.W. kg	Meas. CFT	CODE NO.
CK-103A	7/16"	3/8"-16w	6.5	(C) 0.8	1003-009
CK-103B	1/2"		6.5		1003-010
CK-104A	9/16"	1/2"-12w 1/2"-13UNC	9.7	(C) 1.0	1003-011
CK-104B	5/8"		10.4		1003-012
CK-105A	11/16"	5/8"-11w	12.5	(C) 1.5	1003-013
CK-105B	3/4"		11.8		1003-014
CK-206	7/8"	3/4"-10w	26.5	2.0	1003-015

Metric Size

ORDER NO.	Table Slot	Stud Size	G.W. kg	Meas. CFT	CODE NO.
CK-08	10	M8-1.25P	7.4	(C) 0.8	1003-001
CK-10	12	M10-1.5P	7.6		1003-002
CK-12A	14	M12-1.75P	9.4	(C) 1.0	1003-003
CK-12B	15.7		9.5		1003-004
CK-14	16	M14-2.0P	11.1	(C) 1.5	1003-005
CK-16	18	M16-2.0P	12.6		1003-006
CK-18	20	M18-2.5P	25.3	(C) 1.6	1003-007
CK-20	22	M20-2.5P	27	(C) 2.0	1003-008

- Heat treated steel black oxide finish.
- Block size 1" (25mm). Set in plastic rack consists of:
  - 24 PCS Studs  
(4 ea, 3/4/5/6/7/8 inches or 75/100/125/150/175/200mm.)
  - 6 PCS T-Nuts
  - 4 PCS Coupling Nuts
  - 6 PCS Flange Nuts
  - 6 PCS Step Clamps
  - 6 PCS Step Blocks



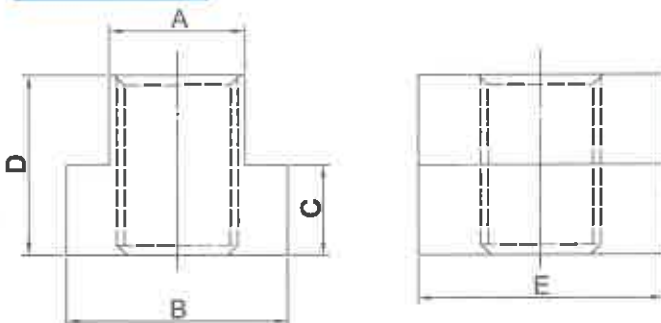
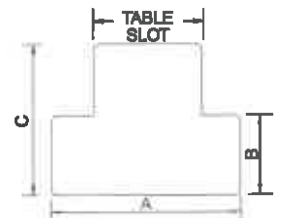
CK-20

- CK-18, CK-20, CK-206, Pack in wooden or Plastic Tray.
- The parts of every specification all can be purchased individually.

## INDIVIDUALLY PARTS

### T-SLOT NUT

HRC 34°



Inch Size

ORDER NO.	Table Slot	Thread Size	A	B	C	Length	WEIGHT (kg)	CODE NO.
3413I	7/16	3/8-16	11/16	7/32	1/2	7/8	0.023	1003-180
3423I	1/2		7/8	9/32	1/2	7/8	0.032	1003-181
3433I	9/16		7/8	11/32	5/8	1-1/8	0.048	1003-182
3414I	9/16	1/2-12 1/2-13	7/8	11/32	5/8	1-1/8	0.048	1003-183
3424I	5/8		1	11/32	5/8	1-1/8	0.06	1003-184
3434I	11/16	5/8-11	1-1/8	7/16	3/4	1-1/4	0.087	1003-185
3415I	11/16		1-1/8	7/16	3/4	1-1/4	0.087	1003-186
3425I	3/4		1-1/4	15/32	3/4	1-1/4	0.102	1003-187
3435I	13/16	3/4-10	1-1/4	9/16	1	1-1/2	0.142	1003-188
3416I	13/16		1-1/4	9/16	1	1-1/2	0.142	1003-189
3426I	7/8		1-1/2	9/16	1	1-1/2	0.175	1003-190
3436I	1	7/8-9	1-5/8	5/8	1	1-3/4	0.2	1003-191
3446I	1-1/16		1-5/8	11/16	1-1/2	2	0.23	1003-192
3417I	1	1-8	1-5/8	5/8	1	1-1/2	0.21	1003-193
3418I	1-1/16		1-5/8	11/16	1-1/2	2	0.25	1003-194

Metric Size

ORDER NO.	Table Slot	Thread Size	A±0.3	B	C	D	E	CODE NO.
3412M	10	M8	9	16	6	12	22	1003-020
3423M	12	M10	11.5	18	7	14	22	1003-021
3414M	14	M12	13.5	22	8	16	28	1003-022
A3424M	16	M12	15.3	25	8	16	28	1003-023
B3424M	16	M14	15.3	25	8	16	28	1003-024
3415M	18	M16	17	28	11	20	32	1003-025
3416M	20	M18	19.5	32	12	24	38	1003-026
3417M	22	M20	21.5	35	14	28	38	1003-027
3418M	28	M24	26.5	44	18	36	38	1003-028

# Coupling Nut

HRC 34°



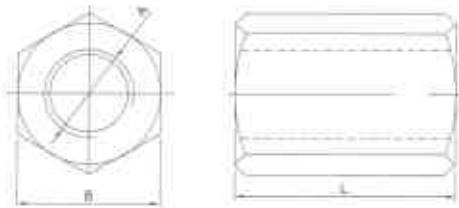
COUPLING NUT



## Metric Size

ORDER NO.	A Thread	B Parallel	L Length	Weight (kg)	CODE NO.
2612M	M8x1.25	13	22	0.033	1003-060
2613M	M10x1.5	17	25	0.035	1003-061
2614M	M12x1.75	21	32	0.065	1003-062
2614M-1	M14x2.0	21	32	0.06	1003-063
2615M	M16x2.0	26	41	0.128	1003-064
2616M	M18x2.5	32	48	0.228	1003-065
2617M	M20x2.5	32	48	0.208	1003-066
2618M	M24x3.0	41	64		1003-067

## Inch Size



ORDER NO.	A Thread	B Parallel	L Length	Weight	CODE NO.
2612I	5/16-18	9/16	7/8	0.033	1003-060I
2613I	3/8-16	11/16	1	0.035	1003-061I
2614I	1/2-12 1/2-13	7/8	1-1/4		1003-062I
2615I	5/8-11	1-1/16	1-5/8	0.128	1003-064I
2616I	3/4-10	1-1/4	1-7/8	0.22	1003-065I
2617I	7/8-9	1-1/4	1-7/8		1003-066I
2618I	1-8	1-5/8	2-1/2		1003-067I

# Flange Nut

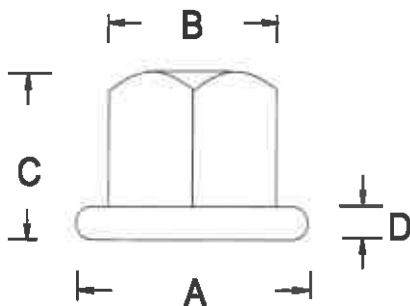
HRC 34°



## Metric Size

ORDER NO.	Thread	A	B (Mm)	C	D	Weight (kg)	CODE NO.
4512	M8x1.25	19	13	8	2	0.013	1003-050
4513	M10x1.5	22	17	12	3	0.023	1003-051
4514	M12x1.75	28	21	16	4	0.043	1003-052
4514M	M14x2.0	28	21	16	4	0.047	1003-053
4515	M16x2.0	35	26	17	5	0.087	1003-054
4516	M18x2.5	41	32	25	6	0.10	1003-055
4517	M20x2.5	44	32	35	6	0.092	1003-056
4518	M24x3.0	50	41	32	6	0.12	1003-057

## Inch Size



ORDER NO.	Thread	A	B (Mm)	C	D	Weight (kg)	CODE NO.
4512I	5/16-18	3/4	9/16	3/8	3/32	0.013	1003-050I
4513I	3/8-16	7/8	11/16	1/2	1/8	0.023	1003-051I
4514I	1/2-12NC 1/2-13NC	1-1/8	21	5/8	5/32	0.043	1003-052I
4515I	5/8-11	1-3/8	1-1/16	11/16	3/16	0.087	1003-054I
4516I	3/4-10	1-5/8	1-1/4	1	1/4	0.092	1003-055I
4517I	7/8-9	1-3/4	1-7/16	1-1/8	1/4	0.12	1003-056I
4518I	1-8	2	1-5/8	1-1/4	1/4	0.12	1003-057I



# Clamping Studs

HRC 27°

Heat Treated Steel

Studs



Black Oxide Finished



Metric Size

ORDER NO.	D	L	L1	WEIGHT (kgs)	CODE NO.	
1323M	M8x1.25P	75	30	0.023	1003-071	
1324M		100	40	0.03	1003-072	
1325M		125	40	0.04	1003-073	
1326M		150	40	0.05	1003-074	
1327M		175	40	0.06	1003-075	
1328M		200	40	0.07	1003-076	
1333M	M10x1.5P	75	30	0.04	1003-081	
1334M		100	40	0.05	1003-082	
1335M		125	40	0.06	1003-083	
1336M		150	40	0.07	1003-084	
1337M		175	40	0.09	1003-085	
1338M		200	40	0.10	1003-086	
1343M	M12x1.75P	75	30	0.06	1003-091	
1344M		100	40	0.07	1003-092	
1345M		125	40	0.09	1003-093	
1346M		150	40	0.11	1003-094	
1347M		175	40	0.13	1003-095	
1348M		200	40	0.15	1003-096	
1343MA	M14x2.0P	75	30	0.07	1003-101	
1344MA		100	40	0.10	1003-102	
1345MA		125	40	0.13	1003-103	
1346MA		150	40	0.15	1003-104	
1347MA		175	40	0.18	1003-105	
1348MA		200	40	0.20	1003-106	
1353M	M16x2.0P	75	30	0.09	1003-111	
1354M		100	45	0.13	1003-112	
1355M		125	45	0.16	1003-113	
1356M		150	45	0.19	1003-114	
1357M		175	45	0.23	1003-115	
1358M		200	45	0.25	1003-116	
13510M		250	45	0.31	1003-117	
13512M		300	45	0.38	1003-118	
1363M		M18x2.5P	75	30	0.12	1003-120
1364M			100	40	0.16	1003-121
1365M	125		45	0.20	1003-122	
1366M	150		45	0.25	1003-123	
1367M	175		45	0.30	1003-124	
1368M	200		45	0.32	1003-125	
13610M	250		50	0.40	1003-126	
13612M	300	50	0.50	1003-127		
1373M	M20x2.5P	75	30	0.15	1003-140	
1374M		100	40	0.20	1003-141	
1375M		125	45	0.25	1003-142	
1378M		150	45	0.30	1003-143	
1377M		175	45	0.35	1003-144	
1378M		200	45	0.40	1003-145	
13710M		250	50	0.50	1003-146	
13712M		300	50	0.65	1003-147	
1384M	M24x3.0P	100	40	0.25	1003-150	
1385M		125	45	0.35	1003-151	
1386M		150	45	0.45	1003-152	
1387M		175	45	0.53	1003-153	
1388M		200	45	0.60	1003-154	

OPERATING TORQUE FOR

TUNT. FLANGE NUT, SCREW

SCREW SIZE	TORQUE(NM)
M3	1.1
M4	2.4
M5	4.8
M6	8.4
M8	21
M10	42
M12	72
M16	180
M20	352
M24	564

Inch Size

ORDER NO.	D	L	L1	WEIGHT (kgs)	CODE NO.
1333I	3/18-16	3"	30	0.04	1003-081I
1334I		4"	40	0.05	1003-082I
1335I		5"	40	0.06	1003-083I
1336I		6"	40	0.07	1003-084I
1337I		7"	40	0.09	1003-085I
1338I		8"	40	0.10	1003-086I
1343I	1/2-12	3"	30	0.06	1003-091I
1344I		4"	40	0.07	1003-092I
1345I		5"	40	0.09	1003-093I
1346I		6"	40	0.11	1003-094I
1347I		7"	40	0.13	1003-095I
1348I		8"	40	0.15	1003-096I
1353I	5/8-11	3"	30	0.09	1003-111I
1354I		4"	40	0.13	1003-112I
1355I		5"	40	0.16	1003-113I
1356I		6"	40	0.19	1003-114I
1357I		7"	40	0.23	1003-115I
1358I		8"	40	0.25	1003-116I
13510I		10"	45	0.31	1003-117I
13512I		12"	45	0.38	1003-118I
1363I	3/4-10	3"	30	0.12	1003-120I
1364I		4"	40	0.16	1003-121I
1365I		5"	45	0.20	1003-122I
1366I		6"	45	0.25	1003-123I
1367I		7"	45	0.30	1003-124I
1368I		8"	45	0.32	1003-125I
13610I		10"	50	0.40	1003-126I
13612I		12"	50	0.50	1003-127I
13614I		14"	50	0.62	1003-128I
13616I		16"	50	0.75	1003-129I
13618I	18"	50	0.87	1003-130I	
13620I	20"	50	1.00	1003-131I	
1373I	7/8-9	3"	30	0.183	1003-140I
1374I		4"	45	0.25	1003-141I
1375I		5"	45	0.30	1003-142I
1376I		6"	45	0.40	1003-143I
1377I		7"	45	0.45	1003-144I
1378I		8"	45	0.50	1003-145I
1384I	1"-8	4"	45	0.25	1003-150I
1385I		5"	45	0.35	1003-151I
1386I		6"	45	0.45	1003-152I
1387I		7"	45	0.53	1003-153I
1388I		8"	45	0.60	1003-154I

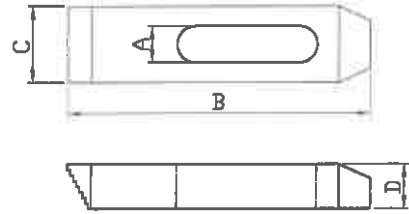
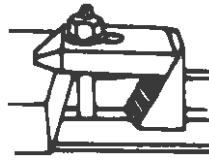


# Step Clamp

HRC 37°



STEP CLAMP



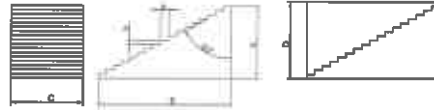
Metric Size

ORDER NO.	Bolt Size	A slot	B Length	C Width	D Thickness	Weight (kg)	CODE NO.
6113	M8 or M10	11	64	25	12	0.11	1003-030
6123	M8 or M10		100	25	16	0.26	1003-031
6133	M8 or M10		150	28	19	0.48	1003-032
6214	M12	14	64	28	12	0.125	1003-033
6224	M12		100	32	19	0.31	1003-034
6234	M12		150	32	22	0.59	1003-035
6215	M16	18	64	32	16	0.16	1003-036
6225	M16		100	38	19	0.39	1003-037
6235	M16		150	38	22	0.71	1003-038
6316	M20 or M18	20	100	38	19	0.36	1003-039
6326	M20 or M18		150	38	25	0.73	1003-040
6336	M20 or M18		200	44	28	1.44	1003-041
6417	M24	26	150	50	32	1.15	1003-042
6427	M24		200	50	35	2	1003-043
6437	M24		250	50	38	2.67	1003-044



# Step Block

HRC 37°



ORDER NO.	A	B	C	D	E	a	b	CODE NO.
5114	19	30	25	21	45	3.1	1.8	1003-170
5124	30	47	25	32	70	3.1	1.8	1003-171
5134	59	97	25	61	147	3.1	1.8	1003-172
5114B	19	30	32	21	45	3.1	1.8	1003-170B
5124B	30	47	32	32	70	3.1	1.8	1003-171B
5134B	59	97	32	61	147	3.1	1.8	1003-172B
5215	39	59	38	41	87	3.1	1.8	1003-173
5225	61	97	38	63	147	3.1	1.8	1003-174
5235	86	140	38	88	210	3.1	1.8	1003-175

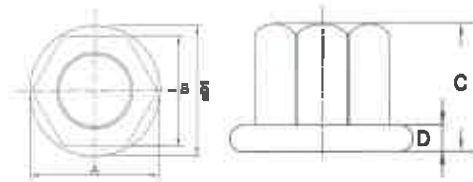


# Flange Nut

DIN 6331 STANDARD



NEW



By machine process.  
With turned & milled  
Heat treated and oxide fines  
HRC 34°



## Metric Size

ORDER NO.	Thread	A	B	C	D	ØD1	Weight (kg)	CODE NO.
CFN1017	M10 X 1.5	18.90	17	15	4	22	0.02	1003-160
CFN1219	M12 X 1.75	21.10	19	18	4	25	0.03	1003-161
CFN1422	M14 X 2.0	24.50	22	21	4.5	28	0.04	1003-162
CFN1624	M16 X 2.0	26.80	24	24	5	31	0.06	1003-163
CFN1827	M18 X 2.5	30.10	27	27	5	34	0.09	1003-164

# C-Clamp Cast Steel

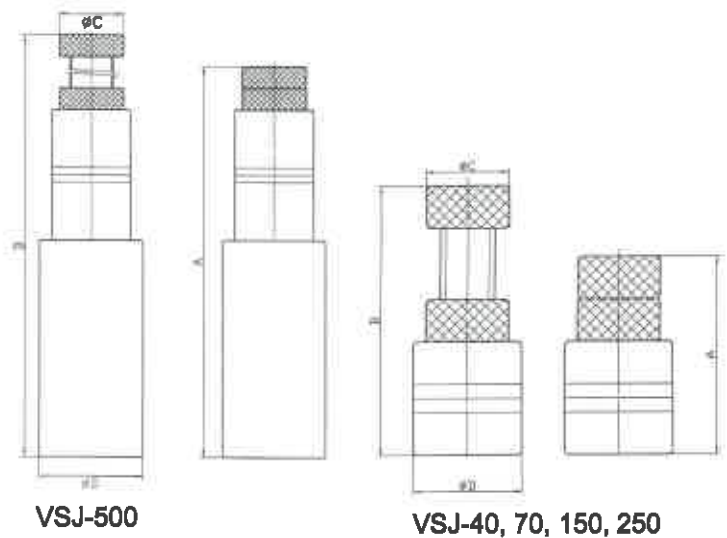
NEW



ORDER NO.	MAX. OPEN	THROAT DEPTH	LxW	WEIGHT (kgs)	CODE NO.
VCL-2C	1-7/8"	1-7/8"	120x84mm	0.22	1003-210
VCL-3C	2-3/4"	2"	163x91mm	0.38	1003-211
VCL-4C	3-7/8"	2-1/2"	195x102mm	0.59	1003-212
VCL-6C	6"	3-1/2"	270x127mm	1.18	1003-213
VCL-8C	7-3/8"	4-1/2"	345x161mm	1.75	1003-214

# Screw Jack

- Work clamping
- Material: S45C
- Support heavy weight



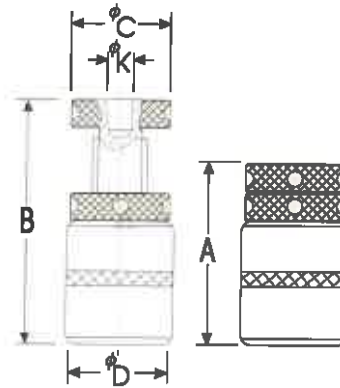
ORDER NO.	ADJUSTABLE CAPACITY	A	B	C	ØD	KN	K.G.	CODE NO.
VSJ-40	40-50mm	40	52	30	40	50	0.3	1014-000
VSJ-70	65-90mm	65	95	28	38	50	0.4	1014-001
VSJ-150	90-140mm	88	140	40	50	50	1.1	1014-002
VSJ-250	140-230mm	135	230	45	55	50	2.3	1014-003
VSJ-500	265-360mm	265	360	45	72	50	4.6	1014-004

# Thread Rod Jack With Magnet

SCREW JACK



- Cross type fixture gives best positioning.
- Built-in magnets designed, easy to clean chips.
- Height adjuster



ORDER NO.	A	B	C	D	K	K.G.	CODE NO.
VSJM-50	42	47	35	40	11.5	0.4	1014-010
VSJM-70	51	65	35	40	11.5	0.5	1014-011
VSJM-85	67	87	40	45	11.5	0.7	1014-012
VSJM-110	86	116	40	45	11.5	0.8	1014-013
VSJM-165	110	170	45	50	11.5	1.4	1014-014

# Thread Rod Jack Set

**NEW**



- SUITABLE FOR IRREGULAR WORKPIECE. RAPID SETTING & FIXED.
- WORK CLAMPING & SUPPORT.
- HEIGHT ADJUSTER

**PADS:**



**6 PADS For different work piece shape**

ORDER NO.	SIZE	CODE NO.
VSJ-1A	Ø25xØ11x10mm	1014-030
VSJ-2A		1014-031
VSJ-3A		1014-032
VSJ-4A		1014-033
VSJ-5A		1014-034
VSJ-6A		1014-035

ORDER NO.	SET INCLUDING		WEIGHT K.G.	CODE NO.
	JACKS	PARTS EACH ONE		
VSJ-A	VSJ-70x2 VSJ-150x2	VSJ-1A, VSJ-2A, VSJ-3A VSJ-4A, VSJ-5A, VSJ-6A	4.0	1014-020
VSJ-B	VSJ-150x2 VSJ-250x2	VSJ-1A, VSJ-2A, VSJ-3A VSJ-4A, VSJ-5A, VSJ-6A	7.5	1014-021



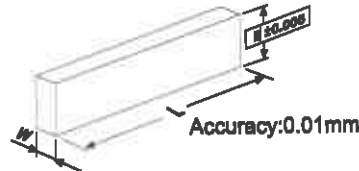
# Ground Parallels

ORDER NO.VP-100 CODE NO.1004-001

To provide more convenient processing for milling vise.

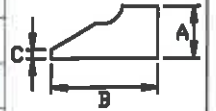


- Hardness: HRC 48°-53°
- Accuracy: 0.01mm
- Process: Four-side ground
- 1 set includes 18 pcs
- Packed by plastic case, G.W.: 11.5 kgs, Meas: 0.3 CFT.



Unit:mm

BODY SIZE	CLAMP SIZE
WxHxLxPcs	AxBxCxLxPcs
5x16x100x2	15x31x2.5x200x2
6x18x100x2	
8x24x100x2	
10x30x100x2	
12x36x150x2	
14x48x150x2	
18x60x150x2	
22x62x150x2	



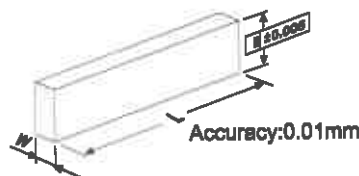
# Ground Parallels

ORDER NO.VP-118A CODE NO.1004-010

8.5mm WIDTH, 5.8kgs



- Hardness: HRC 48°-53°
- MADE OF HIGH GRADE ALLOY STEEL HARDENED AND GROUND.



Unit:mm

WxHxLxPcs	
8.5x14x150x2	8.5x32x150x2
8.5x16x150x2	8.5x36x150x2
8.5x20x150x2	8.5x40x150x2
8.5x24x150x2	8.5x44x150x2
8.5x30x150x2	



# Ground Parallels

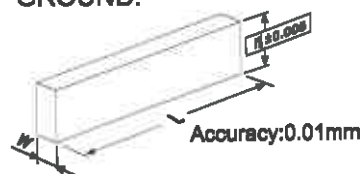
ORDER NO.VP-128A CODE NO.1004-020

28 PCS/SET 10.7kgs

VP-128A 10mm WIDTH



- Hardness: HRC 48°-53°
- MADE OF HIGH GRADE ALLOY STEEL HARDENED AND GROUND.



Unit:mm

WxHxLxPcs	
10x14x150x2	10x28x150x2
10x16x150x2	10x30x150x2
10x18x150x2	10x32x150x2
10x20x150x2	10x35x150x2
10x22x150x2	10x40x150x2
10x24x150x2	10x45x150x2
10x26x150x2	10x50x150x2



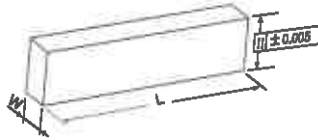
# Precision Parallels



ORDER NO.VP-136 CODE NO.1004-030

To provide more convenient processing for milling vise

- Hardness: HRC 48°-53°



ACCURACY:0.01mm  
WIDTH 8.0mm

36 PCS/SET 12.3kgs

Unit:mm

WxHxLxPcs	
8x16x150x2	8x34x150x2
8x18x150x2	8x36x150x2
8x20x150x2	8x38x150x2
8x22x150x2	8x40x150x2
8x24x150x2	8x42x150x2
8x26x150x2	8x44x150x2
8x28x150x2	8x46x150x2
8x30x150x2	8x48x150x2
8x32x150x2	8x50x150x2

PRECISION PARALLELS

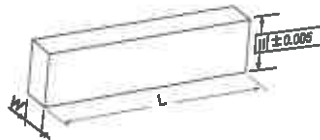


# VP-018 Thin Type Parallels Set

ORDER NO.VP-018 CODE NO.1004-040

3Wx150Lx20 PCS/SET

- Hardness: HRC 48°-53°



G.W. 2.2kgs.

PACKING: 175x65x200 mm

ACCURACY: 0.01mm

THICKNESS 1/8" ≈ 3mm

WxHxLxPcs	WxHxLxPcs
3x13x150x2	3x28x150x2
3x16x150x2	3x31x150x2
3x19x150x2	3x35x150x2
3x22x150x2	3x38x150x2
3x25x150x2	3x41x150x2

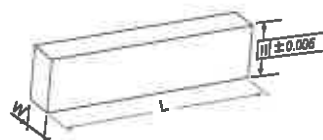


# VP-163 Precision Parallels

ORDER NO.VP-163 CODE NO.1004-050

5Wx150Lx8 PCS/SET

- Hardness: HRC 48°-53°



G.W. 1.7kgs.

PACKING: 100x65x175 mm

ACCURACY: 0.01mm

THICKNESS 3/16" ≈ 5mm

WxHxLxPcs
5x25x150x2
5x31x150x2
5x38x150x2
5x44x150x2



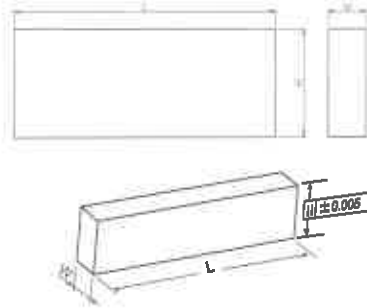
# VP-064 Precision Parallels



ORDER NO.VP-064 CODE NO.1004-060

6Wx150Lx18 PCS/SET

- Hardness: HRC 48°-53°



G.W. 4.5kgs.  
 PACKING: 210x178x68 mm  
 ACCURACY: 0.01mm  
 THICKNESS 1/4" ≈ 6mm

WxHxLxPcs	WxHxLxPcs
6x19x150x2	6x35x150x2
6x22x150x2	6x38x150x2
6x25x150x2	6x41x150x2
6x28x150x2	6x44x150x2
6x31x150x2	

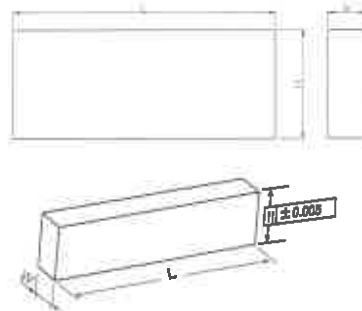


# VP-050 Precision Parallels

ORDER NO.VP-050 CODE NO.1004-070

13Wx150Lx8 PCS/SET

- Hardness: HRC 48°-53°



G.W. 4.5kgs.  
 PACKING: 180x70x310 mm  
 ACCURACY: 0.01mm  
 THICKNESS 1/2" ≈ 13mm

WxHxLxPcs
13x25x150x2
13x31x150x2
13x38x150x2
13x44x150x2



# VP-033 Precision Parallels

ORDER NO.VP-033 CODE NO:1004-080

200Lx8 PCS/SET  
Accuracy: 0.01 mm

- Hardness: HRC 48°-53°



G.W. 6.2kgs.  
 PACKING: 180x65x230 mm  
 LONGER TYPE,  
 SUIT FOR BIGGER VISE.

WxHxLxPCS
8x24x200x2
12x36x200x2
22x40x200x2
31x15x200x2x2.5 For Clamping

15x31x2.5x200x2

# VP-146 Ground Parallels

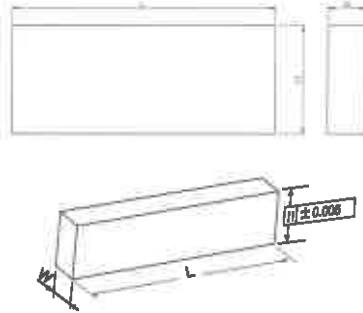


ORDER NO.VP-146 CODE NO:1004-082

4.6Wx150Lx12 PCS/SET

Accuracy: 0.01 mm

NEW



G.W. 3kgs.  
Material: S45C  
Hardness: HRC48°-53°

WxHxLxPCS
4.6x32x150x2
4.6x34x150x2
4.6x36x150x2
4.6x38x150x2
4.6x40x150x2
4.6x44x150x2

GROUND PARALLELS

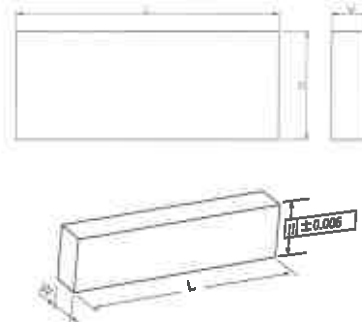
# VP-168 Ground Parallels

ORDER NO.VP-168 CODE NO:1004-083

6.8Wx150Lx14 PCS/SET

Accuracy: 0.01 mm

NEW



G.W. 3.5kgs.  
Material: S45C  
Hardness: HRC48°-53°

WxHxLxPCS
6.8x15x150x2
6.8x18x150x2
6.8x21x150x2
6.8x25x150x2
6.8x27x150x2
6.8x31x150x2
6.8x35x150x2

# VP-200 Ground Parallels

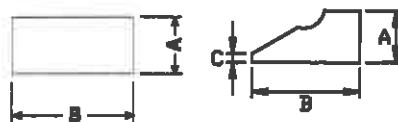
ORDER NO.VP-200 CODE NO.1004-085

NEW



MADE OF HIGH GRADE  
ALLOY STEEL  
HARDENED AND  
GROUND.  
ACCURACY: 0.01/100 MM  
G.W. :15.4 KGS

● Hardness: HRC 48°-53°



FOR OVER 150 mm, 200mm  
JAW PLATE VISE USING

BODY SIZE	CLAMP SIZE
AxBxLxPcs	AxBxCxLxPcs
5x16x150x2	31x15x200x2x2.5
6x18x150x2	
8x24x150x2	
10x30x150x2	
12x36x200x2	
14x48x200x2	
18x60x200x2	
22x62x200x2	

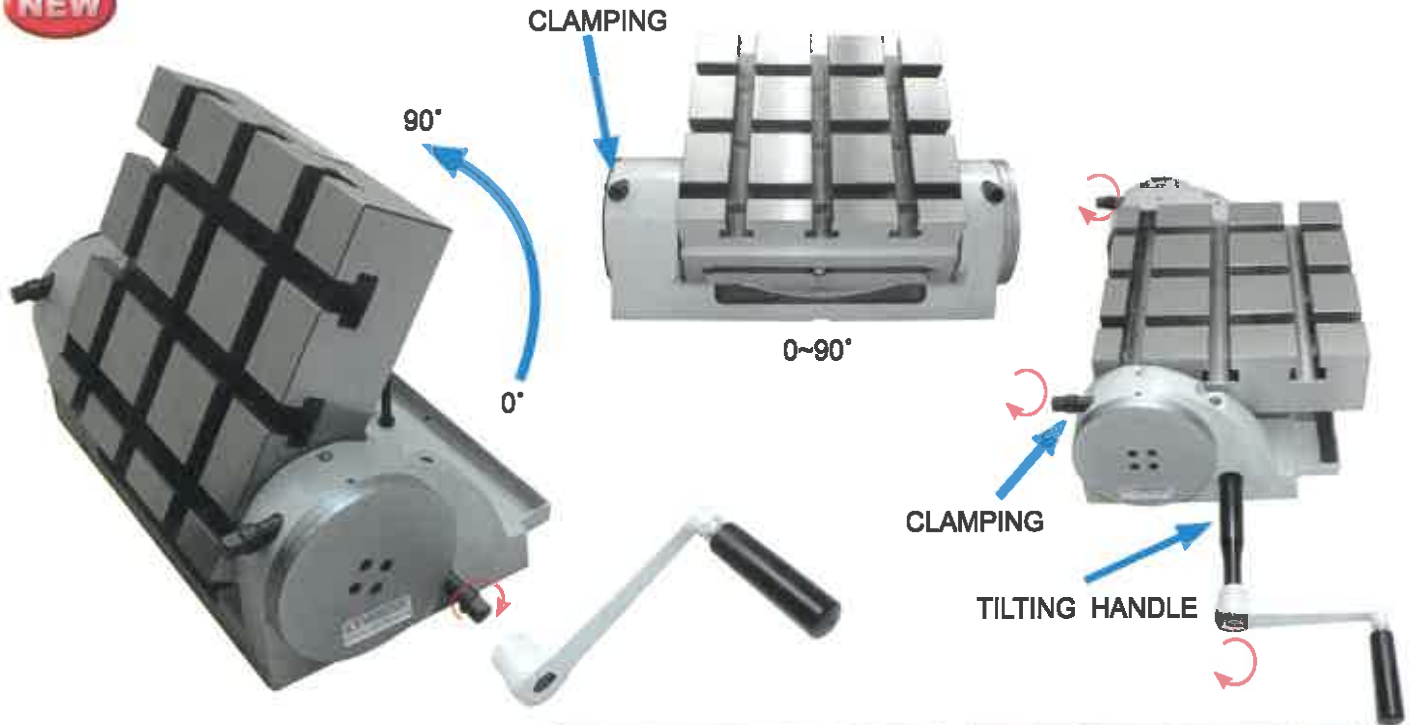


# Heavy Duty Tilting Plate



## TILTING PLATE & CLAMPING HANDLE

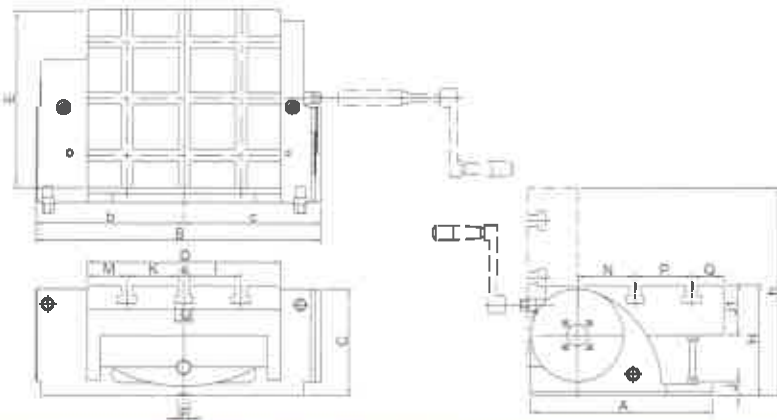
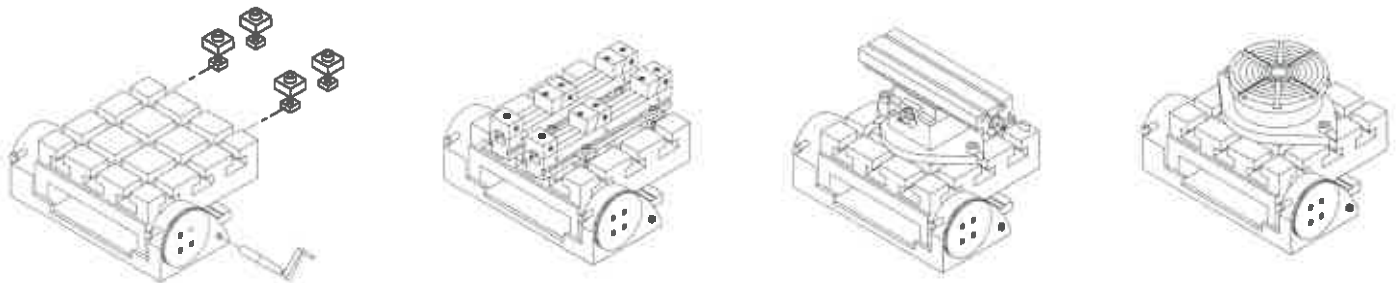
**NEW**



ORDER NO.	Horizontal	Vertical	CODE NO.
VUT-1515	30 kgs	12 kgs	1004-110
VUT-2726	45 kgs	20 kgs	1004-111
VUT-3230	70 kgs	35 kgs	1004-112



### USING EXAMPLE:



- Tilting by rigid & strong design, 2 supporter & rigid clamping system construction.
- Minimum set-up time.
- Tilting angle can adjusted by worm & worm gear system.
- Accurate and built for use in milling, boring and other machines.
- Worm shafts are hardened and ground.
- Tilting plate with slots enable Multi-position work fixing.
- Strong structure.
- FC 25

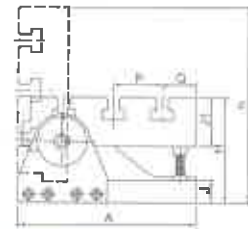
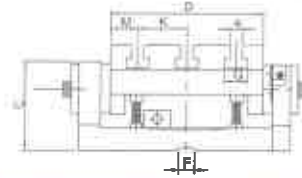
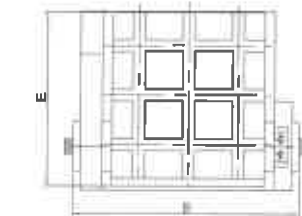
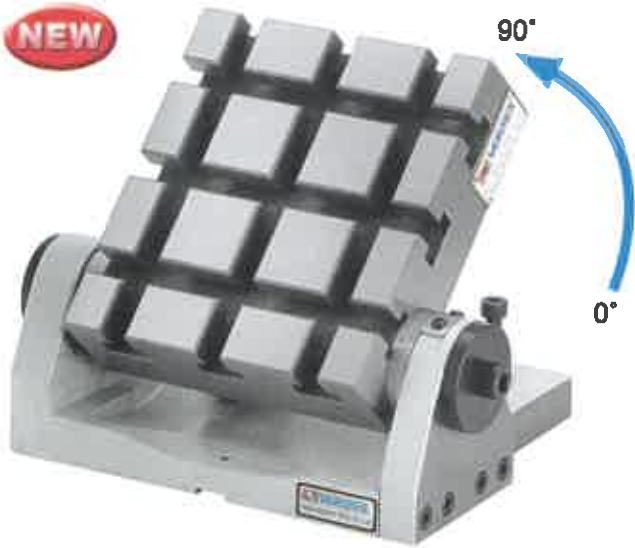
Unit:mr

ORDER NO.	A	B	C	D	E	F	G	H	I	J	J1	K	M	N	P	Q	b	c	e	h	KGS	CODE NO.
VUT-1515	180	285	113	156	150	16	20	115	44	16	50	44	28	50	50	30	145	140	10	251	17.6	1004-110
VUT-2726	255	399	150	270	258	16	22	155	72	20	70	72	55	80	80	45	207	192	12	291	59.4	1004-111
VUT-3230	300	449	169	320	298	16	26	169	92	25	75	92	60	98	100	48	232	217	16	305	83	1004-112

# Light Duty Tilting Plate



**NEW**



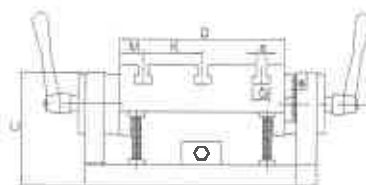
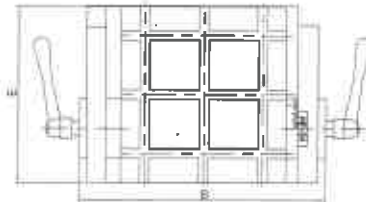
5Unit:mm

- Light cutting.
- Tilting angle adjustable: 0°-90°
- Can install with vise and mag. chuck.

ORDER NO.	A	B	C	D	E	F	G	H	I	J	J1	K	M	P	Q	e	h	Kgs	CODE NO.
VU-1517	180	228	92	154	176	16	20	105	44	22	50	50	27	50	34	12	198	14	1004-120

# Light Duty Tilting Plate

**NEW**



5Unit:mm

- Light cutting.
- Tilting angle adjustable: 0°-90°
- Can install with vise and mag. chuck.

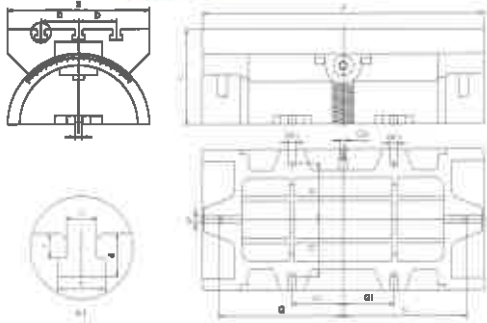
ORDER NO.	A	B	C	D	E	G	H	I	J	J1	K	M	P	Q	e	h	Kgs	CODE NO.
VU-2122	225	312	144	210	224	20	154	69	26	60	75	30	75	37	12	258	28	1004-121

LIGHT DUTY TILTING PLATE

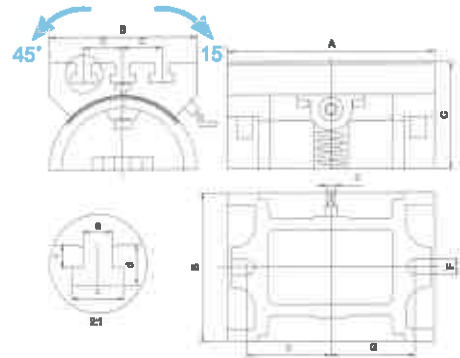




1. For angle setting on various machine tools.
2. Adjustable 45°
3. Material: FC25
4. Lower plate and bigger working space.



VP-600



VP-180  
VP-250  
VP-380

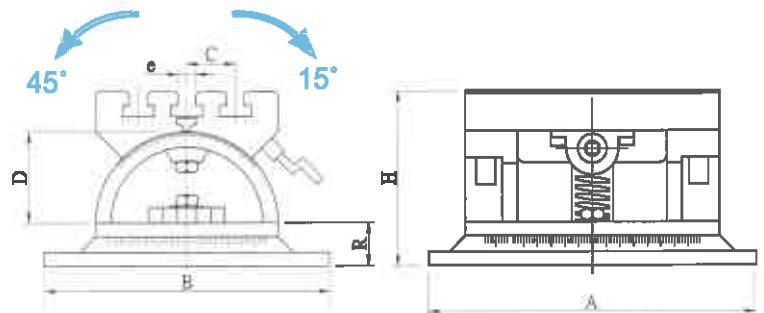
Unit:mm

ORDER NO.	A	B	C	D	E	F	G	a	b	c	d	kg	CODE NO.
VP-180	185	132	95	35	8	14	75	13	23	10	18	7.38	1004-089
VP-250	255	180	136	50	10	16	95	16	26	13.5	25	28.7	1004-090
VP-380	380	255	181	69	13	18	150	16	26	14	25	56	1004-091

Unit:mm

ORDER NO.	A	B	C	D	E	F	F1	G	G1	H	I	a	b	c	d	kg	CODE NO.
VP-600	600	300	202	80	13	16	17	265	109	121	16	16	26	13	23	85	1004-092

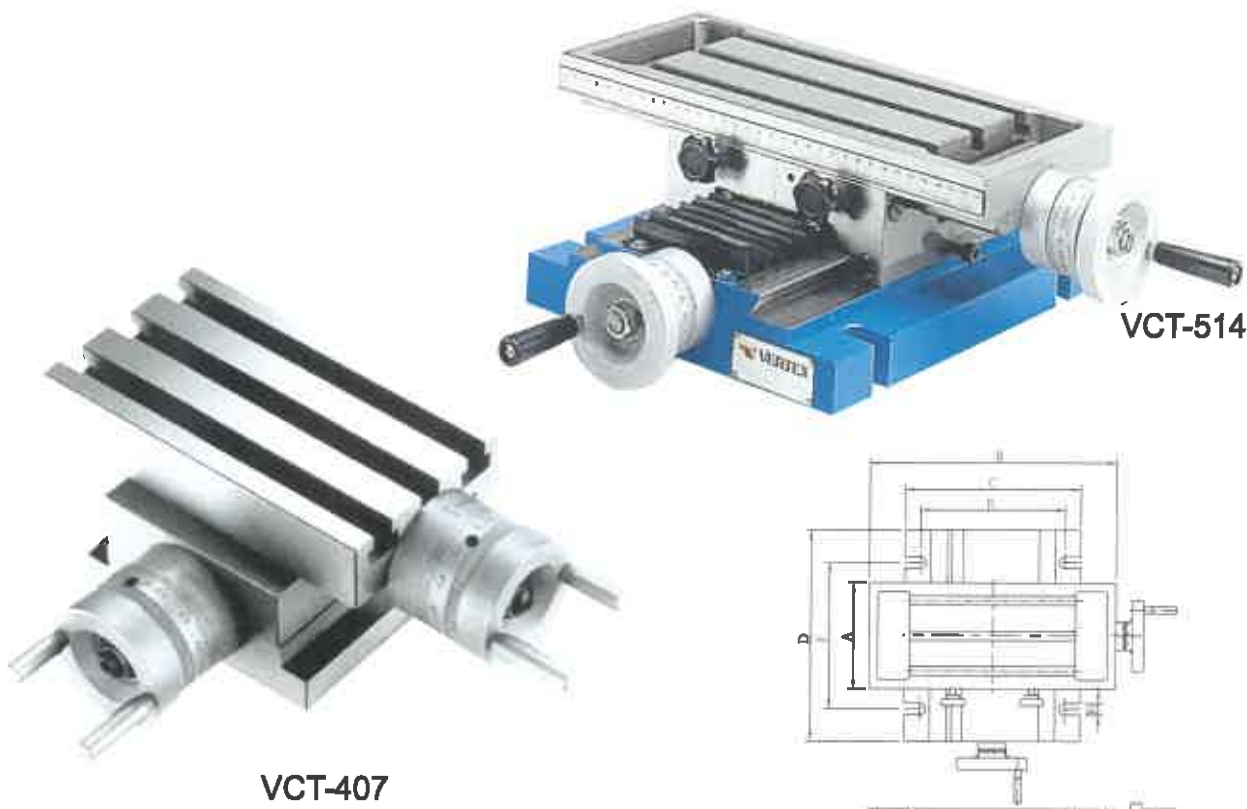
## Angle Plate With Swivel Base



360° SWIVEL BASE.

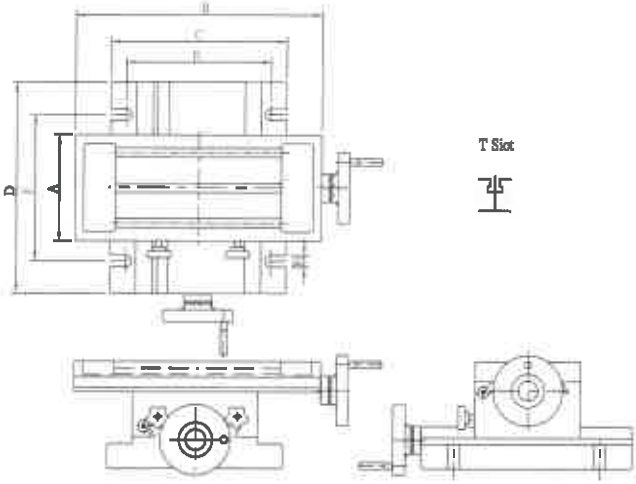
Unit:mm

ORDER NO.	Table LxW			T-SLOT			R	WEIGHT (kg)	CODE NO.
	A	B	H	e	C	D			
VP-250S	290	180	206	16	50	105	52	36	1004-100
VP-380S	390	360	255	16	68	127	60	88	1004-101



VCT-407

VCT-514



DRAWING OF VCT-514

- Material: over FC-30
- Precision: 0.02/100mm

### Specifications

ORDER NO.	A	B	C	D	E	F	Travel Stroke	T Slot	Total height	Dial graduation	PACKING LxWxH mm	WEIGHT kgs	MAX.LOAD kgs	CODE NO.
VCT-407	100	180	130	100	115	50	50x80	3/8"	100	2.5mm/0.02	290x240x140	12	35	1007-001
VCT-514	150	350	250	300	206	208	156x170	3/8"	134	4mm/0.02	510x450x240	33.5	105	1007-002
VCT-820	200	500	300	400	250	290	200x250	3/8"	155	4mm/0.02	640x520x200	72	140	1007-003
VCT-1024	250	600	400	500	340	430	250x300	1/2"	210	4mm/0.02	790x680x310	141	175	1007-004

Unit:mm

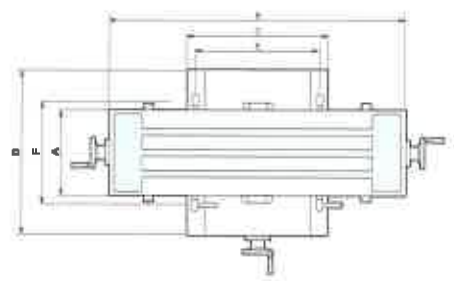
# Precision Cross Table

ORDER NO.VCT-830 CODE NO.1007-010



VCT-830

A heavy, rugged slide in all kinds of positioning, milling, drilling micro-scope viewing and staging, adjustable bases for heavy loads, small jig boring, precision cut-off.



### Specifications

ORDER NO.	A	B	C	D	E	F	Travel Stroke	T Slot	Total height	Dial graduation	PACKING LxWxH mm	WEIGHT kgs	MAX.LOAD kgs	CODE NO.
VCT-830	210	730	345	405	305	230	190x350	16	185	2.5mm/0.05	991x584x292	100	35	1007-010

Unit:mm



# Cross Table

ORDER NO.VCT-512 CODE NO.1007-020

LIGHT DUTY



VCT-512

Table: 310x141mm

Height: 115mm

Travel: 200mm longitudinal.

125mm transverse.

Base: 225mm x 200mm oval with U slots for up to 16 bolts on 190 to 210 bolts circle.

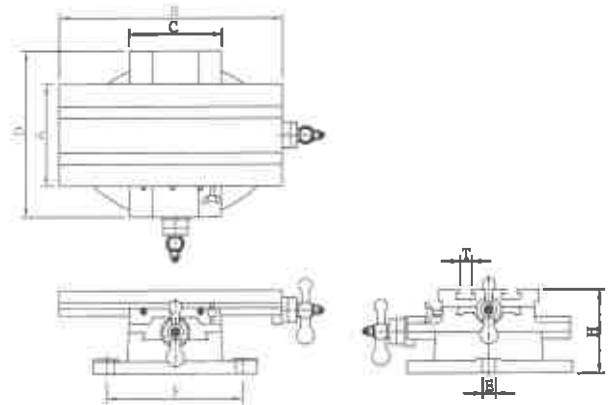
Dial Graduated: 0.03mm

Net weight: 16.5kgs

Max.Load:20kgs

Packing Volume of each unit: 430x265x155mm

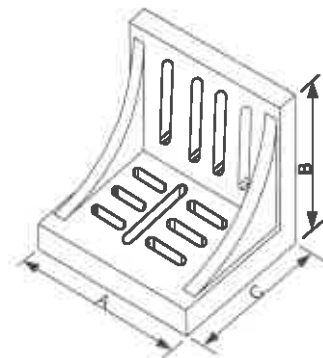
LIGHT DUTY ONLY



ORDER NO.	A	B	C	D	E	F	Stroke	T Slot	Total height	PACKING LxWxH mm	WEIGHT kgs	CODE NO
VCT-512	141	310	128	230	19	185	200x125	16	115mm	430x265x155	16.5	1007-020



# Right Angle Plate



- Made of high tensile cast iron
- Webbed style accurately grounded, square and parallel on outside faces and ends within 0.01mm per 100mm

Unit:mm

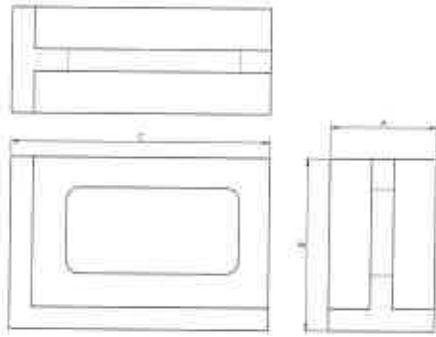
ORDER NO.	Approx Dimensions			WEIGHT (kgs)	CODE NO.
	A	B	C		
VR-6	150	126	115	3.8	1013-010
VR-8	202	150	126	7.4	1013-011
VR-10	250	202	126	12.1	1013-012
VR-12	300	228	202	23.7	1013-013



# Precision Right Angle Plate



ANGLE PLATE



- Made of finest quality castings, stress relieved.
- All outside surfaces closely finished for square and parallel references.
- Precision ground: Square within 0.01mm per 100mm  
Parallel within 0.01mm per 100mm

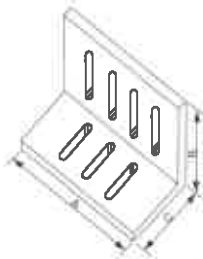
Unit:mm

ORDER NO.	Approx Dimensions			WEIGHT (kgs)	CODE NO.
	A	B	C		
VRH-4	102	126	150	6.3	1013-001
VRH-5	126	202	300	16.9	1013-002
VRH-6	150	150	202	14.5	1013-003
VRH-8	202	250	300	32.5	1013-004



# Slotted Angle Plate

VR-45



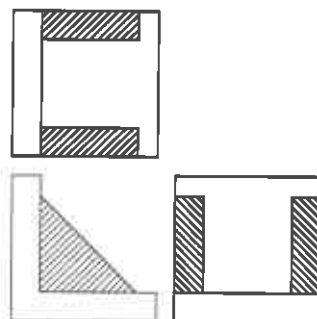
VR-100

- Many size also stocked with precision ground finish.
  - Made of high tensile cast iron properly seasoned against distortion.
- Open end style accurately machined square and parallel on all faces.

ORDER NO.	Approx Dimensions			APPROX WEIGHT (kgs)	CODE NO.
	A	B	C		
VR-45	4-1/2"	3-1/2"	3"	1.3	1013-020
VR-60	6"	5"	4-1/2"	3.2	1013-021
VR-80	8"	6"	5"	7.4	1013-022
VR-100	10"	8"	6"	12	1013-023
VR-120	12"	9"	8"	19.4	1013-024



# Plain Angle Plate



## Machined & precision ground

- Made from high tensile cast iron - normalized and stress relieved.
- Precision ground: Flat and square within 0.01 per 100mm

ORDER NO.	Size in inches	APPROX WEIGHT (kgs)	CODE NO.
VR-22	2x2x2	0.4	1013-030
VR-33	3x3x3	1.2	1013-031
VR-44	4x4x4	2.5	1013-032
VR-55	5x5x5	4.3	1013-033
VR-66	6x6x6	7	1013-034
VR-88	8x8x8	15.2	1013-035
VR-1010	10x10x10	27.7	1013-036
VR-1212	12x12x12	42.9	1013-037



- Material: S45C
- Easy adjustment
- Work clamping & support.

ORDER NO.	STUD	LxWxH	K.G.	CODE NO.
VCA-404	M12x5"	105x45x35mm	1.5	1015-001
VCA-405	M16x6"	126x54x40mm	2.6	1015-002
VCA-406	M20x7"	155x58x55mm	4.2	1015-003
VCA-408	M24x8"	190x70x65mm	8.2	1015-004

# Pivot Clamp



- The clamping height is adjustable
- With brass plate under the clamp arm for protecting the working material from damage
- By using spherical Flange nut, it will be assured to clamp the material tightly
- The clamping arm is forged
- Material: S45C

ORDER NO.	Table T-Slot Size	Stud X L Size	Body	Clamping height	G.W.	CODE NO.
VCB-404	16	M12x5"	115x42x39	0 or 3 1/2"	1.6	1015-005
VCB-405	18	M16x6"	133x50x49	0 or 4"	2.7	1015-006
VCB-406	22	M20x7"	157x60x54	0 or 4 3/4"	4.6	1015-007
VCB-408	28	M24x8"	7x2 7/8	0 or 6"	8.6	1015-008

# Hand Drift

ORDER NO.VHD-1 CODE NO.1016-001



**An essential tool for machinery processing**  
Specially applied for: Vertical drill, radial drill, compounding miller, boring miller, and any drill drifting, etc.

- Easy and fast operation.
- Enhance the working efficiency.
- Protect toolings to be safe.
- Economical, practical & durable.
- Medium Carbon Steel.
- Hardness:HRC 44°-48°

Suit For Spindle Notes	Length	30pcs/Box Size	30pcs/ Carton Size	N.W.(kg)
M.T.#2 #3 #4 #5	375mm	385x45x37mm	390x270x240mm	1.3



# Eye Shield



ORDER NO.VH-56 CODE NO.1017-001



- The clamping height is adjustable
- With brass plate under the clamp arm for protecting the working material from damage

GUIDER SIZE	K.G.
300x180x2	1



# Eye Shield With Magnetic Base

ORDER NO.VH-57 CODE NO.1017-002



- See through design
- Magnetic Base 80 kgs, 60 x 50 x 55 mm
- Main Rod O.D x L : Ø12 x 173
- Guider Size : 300 x 180 mm
- Weight : 1.6 kgs



milling

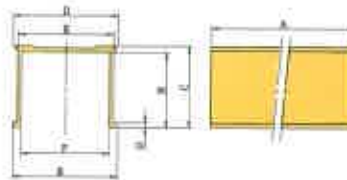


drilling



# Milling Table Slot Cover

- Save time cleaning chips from machine
- Protects table slots
- Prevents chips from interfering with coolant flow
- Made of hand anodized aluminum, Light weight.



ORDER NO.	Table Slot	A	B	C	D	E	F	G	H	L	Set	KG	CODE NO.
VST-10	10	300	10	8	10.2	7.4	5.5	2.2	6.2	300	6PCS	0.1	1018-011
VST-12	12	400	12	8	12.2	9.9	7.2	2.2	6.2	400	6PCS	0.4	1018-012
VST-14	14	400	13	9.9	14.2	11.3	7.2	2.2	8	400	6PCS	0.5	1018-013
VST-16	16	400	16	13.3	16.5	9.5	9	2.2	10	400	6PCS	0.5	1018-001
VST-18	18	450	17.8	13.3	18.5	16.4	11	2.2	10	450	6PCS	0.6	1018-002
VST-20	20	1000	20	13.7	20.5	18.4	13.2	2.2	10	500	10PCS	1	1018-003
VST-22	22	1000	22	13.7	22.6	20.5	15.2	2.2	10.5	1000	5PCS	1.1	1018-004
VST-24	24	1000	24	14	24.8	22.5	17.2	2.2	11.7	1000	5PCS	1.2	1018-005
VST-28	28	1000	27.8	14.1	28.8	28	21.1	2.2	11.7	1000	5PCS	1	1018-006
VST-36	36	1000	36.6	13	36.7	35	28.2	2.2	12	1000	5PCS	1.1	1018-007



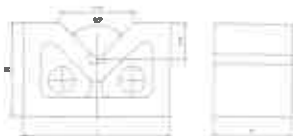
# Vee Blocks



## MACHINED ONLY

Material: High quality close-grained cast iron, stress-relieved.  
Accuracy: Machining to 0.05mm / 100mm

ORDER NO.	Length	Width	Height	V-Width	V-Depth	Weight (kgs)/Set	CODE NO.
V-2V	50mm	27mm	32mm	25mm	12.5mm	0.5	1019-001
V-3V	76mm	35mm	61mm	44mm	22mm	1.5	1019-002
V-4V	100mm	45mm	67mm	53mm	26.5mm	2.5	1019-003
V-5V	130mm	51.5mm	79.5mm	64mm	32mm	4.3	1019-004
V-6V	156mm	66mm	90.5mm	81mm	40.5mm	6.4	1019-005
V-7V	181mm	77mm	110mm	85.4mm	42.7mm	12	1019-006
V-8V	206mm	103mm	143mm	116mm	58mm	16.7	1019-007



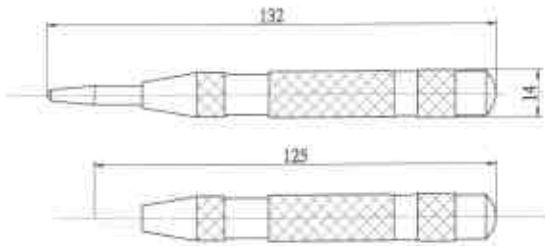


# Auto Center Punch

ORDER NO.VACP-1 CODE NO.1019-020



L: 120MM



Automatic point marker is the best tool final the central point before punching. It's operated to aim at the central line and be pressed downward; the central point will appear. The size of the point can be adjusted by the pressure lid, no need to use hammers.

- Also can use to break car windows
- N.W. : 0.07kg



# Draw Bar



- For milling machine

ORDER NO.	DRAW BAR THREAD	LENGTH mm		WEIGHT (kg)	CODE NO.
		STEPS (S) TYPE	VARIABLE (A) SPEED		
VDR-R8-S	7/16-20UNF	518	598	0.5	1020-001
VDR-R8-A				0.8	1020-002
VDR-NT302-S	1/2-12UNF	555	635	0.6	1020-003
VDR-NT302-A				0.9	1020-004
VDR-NT303-S	1/2-13UNF	555	635	0.6	1020-005
VDR-NT303-A				0.9	1020-006
VDR-NT30M-S	M12x1.75P	555	635	0.6	1020-007
VDR-NT30M-A				0.9	1020-008
VDR-NT40I-S	5/8-11UNF	545	630	1	1020-009
VDR-NT40I-A				1.3	1020-010
VDR-NT40M-S	M16x2.0P	545	630	1	1020-011
VDR-NT40M-A				1.3	1020-012



# Expandable Machine Guard Cover



B TYPE



F TYPE

F IS FOR FRONT (X)  
 B IS FOR BACK (Y)  
 (MILLING MACHINE)  
 B SERIES RUBBER IS PLAIN TYPE.

ORDER NO.	WxL	SUITFUL MILLING SINE	WEIGHT (kg)	CODE NO.
VGC-3833F	380x330	1.5#	0.3	1021-001
VGC-3860F	380x600	1.6# 1.7#	0.6	1021-002
VGC-4550F	450x500	1.6#	0.7	1021-003
VGC-3775B	370x750	1.5#	0.7	1021-004
VGC-4585B	450x850	1.6# 1.7#	1.1	1021-005
VGC-6085B	600x850	2.0#	2	1021-006

# 5C. C32. OZ25 Collet Rack

ORDER NO.VMS-5 CODE NO.1021-050



COLLET RACK



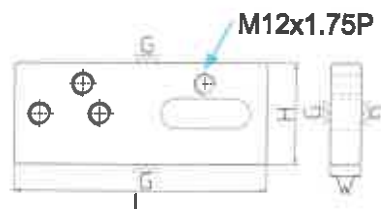
SIZE: 220x110x6 mm  
MATERIAL:PLASTIC  
G.W.: 0.2 kgs

## Table Slot Plate

NEW



EXAMPLE



Material:SS41C  
Hardness: HRC 50~55°

- Clamp Support
- For Flexible Machine Table Fixing

ORDER NO.	WxHxL (mm)	WEIGHT (kgs)	CODE NO.
TP-90-18	18x60x90	0.76	1021-070
TP-90-20	20x60x90	0.85	1021-071
TP-90-22	22x60x90	0.9	1021-072
TP-90-24	24x60x90	1	1021-073
TP-150-18	18x60x150	1.3	1021-074
TP-150-20	20x60x150	1.4	1021-075
TP-150-22	22x60x150	1.6	1021-076
TP-150-24	24x60x150	1.8	1021-077

## Parts Storage

COLOR: RED, BLUE, YELLOW



- Easy parts storage
- Orgnized

ORDER NO.	SIZE	PACKED	EACH WEIGHT (kg)	CODE NO.
VHB-1218	120Wx180Dx80H mm	60 PCS/CASE	8.6	1021-100
VHB-1525	150Wx250Dx120H mm	36 PCS/CASE	9.6	1021-101
VHB-2035	200Wx350Dx150H mm	18 PCS/CASE	0.585	1021-102
VHB-2045	200Wx450Dx177H mm	12 PCS/CASE	0.8	1021-103
VHB-3045	300Wx450Dx177H mm	8 PCS/CASE	1.8825	1021-104



# Right Angle Head



VRA-NT40

VRA-R8

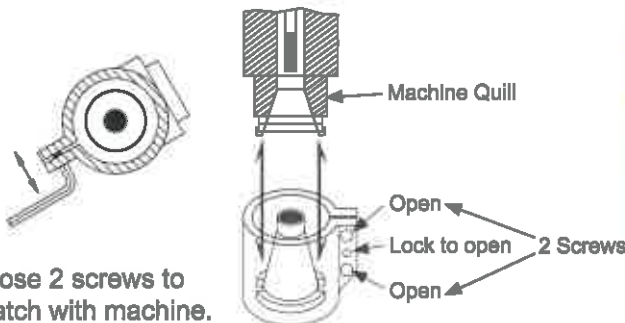


### VRA-TYPE

- Used on Vertical Milling Machine to make horizontal work.
- Rigidity constructed suitable for horizontal cutting.
- The clamping bushing to suit milling machine.
- Maximum spindle speed allowed right angle. 2000 R.P.M.

※Please notify the quill dia. when ordering

ORDER NO.	SUITABLE MILLING HEAD QUILL DIAMETER(mm)	WEIGHT (kgs)	CODE NO.
VRA-R8	85.725~86	12.5	1008-001
VRA-NT 30	85.725~86	13	1008-002
VRA-NT 40	85.725, 100, 105, 110, 115	18	1008-003



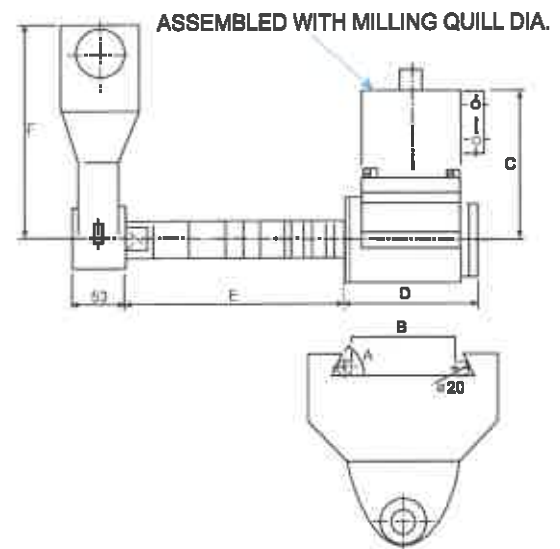
- Loose 2 screws to match with machine.
- Tighten 2 screws to fix on quill D.

• Assemble with milling quill dia.

### ARBOR FOR CUTTER INCH OR MERTIC SIZE

VRA-R8	R8-SCA1"	R8-SCB22
VRA-NT 30	NT30-SCA1"	NT30-SCB27
VRA-NT 40	NT40-SCA1"	NT40-SCB27

# Horizontal Milling Attachment



- Special dovetail degree, also can supply....please notify.
- VHA-TYPE including right angle head, long horizontal arbor and breaker. VHA-R-8-27mm VHA-NT-30/NT-40-27mm for The mm size, for inch size are same 25.4mm (1")
- The quill diameter is same as VRA-Type
- Maximum spindle speed allowed right angle. 2000 R.P.M.

- Benefit: convert your vertical mill to a horizontal mill. Designed to simplify right angle work by reducing the need for special tooling and complex fixtures, gains your efficiency, save your time and money.

### Horizontal Milling Arbor Support

TYPE	SPEC.	SUITABLE M/C RAM DOVETAIL WIDTH	WEIGHT(kgs)
A 50°	B	140mm~170mm	25.7
A 55°	B	140mm~170mm	26.5
A 60°	B	140mm~170mm	30.8

Unit:mm

ORDER NO.	C	D	E	F	CODE NO.
VHA-R-8	175	138	255	233	1008-010
VHA-NT-30	175	160	270	233	1008-011
VHA-NT-40	183	190	270	233	1008-012

**NEW**



For Longitudinal X Axis



For Cross Y Axis



For Vertical Z Axis

POWER TABLE FEED

**500S Type series**  
**VPF-500X**  
**VPF-500Y**  
**VPF-500Z**

The VERTEX vertical milling machines-model: VTM-2S/2V/3V/4V/5V and all milling machine without gearbox table feed device. All type milling/drilling machines high torque. Easy installation. Automatic shutoff. Superior thermal characteristic. Smooth operations. Safety option. Trouble-free performance. super power.

The max. torque is 650 in/lb

- New super power design and construction materials.
- Top quality. Long life span designed.
- Acc type are 110V voltage only.

ORDER NO.	VOLTAGE	Speed Range	Rapid Speed	Max. Torque	LxWxH	G.W.(kgs)	CODE NO.
VPF-500 X	110V ONLY	4-160rpm	200rpm	650 in/lb	290x200x320mm	6.3	1009-001A
VPF-500 Y						6.7	1009-002A
VPF-500 Z						6.9	1009-003A
VPF-99 X	110V	0-165rpm	240rpm	450 in/lb	290x200x315mm	6.2	1009-005

**VPF-99 X**



**Features**

- Application: the VERTEX power table feed for Drill/Milling machine.
- Easy to install, no modification needed.
- Highest quality design and construction.
- Circuit panel is designed for easy replacement with insert type connectors.
- Assy-gear clutch has limit for twisting: When power feed is working and accepting tremendous obstacle, the assy-gear clutch will automatically become natural turning in order to reduce damage.



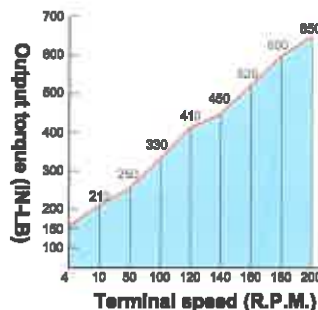
**OPTIONAL**

**Transformer 110V→220V**

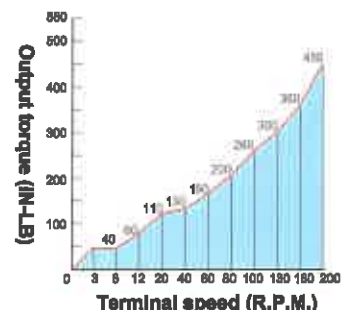
ORDER NO. VPF-TF  
 CODE NO. 1009-006

TR1: Output TR2:2 Output  
 Output: 110V 50/60Hz,  
 power supply: 50/60Hz, 1-phase  
 220, 240, 380, 415, 440V

**THIS TRANSFORMER IS FOR VPF-TYPE USE ONLY.**



VPF-500



VPF-99



### Standard equipment

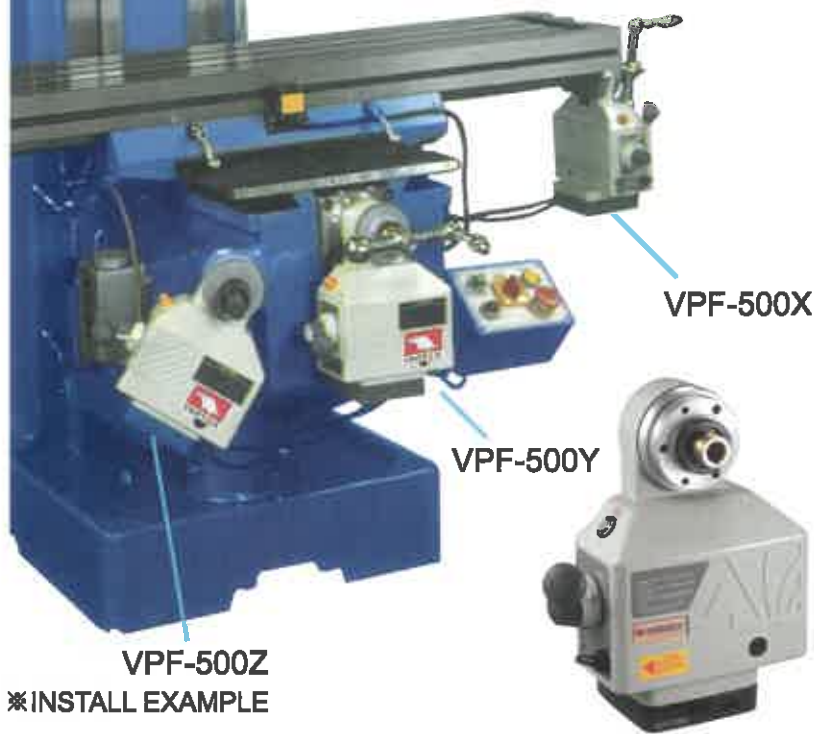
- Power motor
- Control box
- Air filter and lubricant
- Drawbar
- Mounting hardware

- It will increase your productivity with more profits as cutter replacement needs only 3 sec and the speed of replacement is more than 10 times to compare with traditional cutter replacement.

### Air power drawbar.

#### PD-150, PD-200

- It can be installed in any kind of machine, of which the main spindle are R-8, NT #30, #40 or #50.
- It is convenient for the machinist who wants increased production and performance from his machine.
- It is suitable for NC and general milling machines.
- This device is easily installed needs only 5 seconds to change the cutting tool.
- Main power is air compression.
- This device is designed with safety device controlled with solenoid valve. The power drawbar cannot be operated while machine is running.



VPF-500Z

※INSTALL EXAMPLE

ORDER NO.	SPEED	TORQUE	AIR PRESSURE	VOLTAGE FOR MAGNETIC VALVE	G.W. kgs	PACKING LxWxH	CODE NO.	
PD-150 FOR	R-8	3000 R.P.M.	150 ft-lb	90 psi 6.3 kg/cm <sup>2</sup>	AC 110V OR 220V DC 24V	9.8	650x300x200	1010-001
	NT-30							1010-002
	NT-40							1010-003
PD-200 FOR	NT-50	3000 R.P.M.	200 ft-lb	90 psi 6.3 kg/cm <sup>2</sup>	AC 110V OR 220V DC 24V	11	650x300x200	1010-004

# Precision Slotting Head

ORDER NO.VSH-125 CODE NO.1012-010



## Features

- Special design worm and worm gear with linkage transmission mechanism, well construction and highly power output.
- The ram-sliding surface are hardened and precision ground
- Built in lubricating system for smoothly running and prolong the life of head
- Available mounting on any type milling m/c back side of the ram.

## Specification

Stroke: 125mm (5")

No. of stroke speed change: 5 steps

Stroke speed (stroke/min): 30, 47, 69, 98, 140 spm (50HZ)

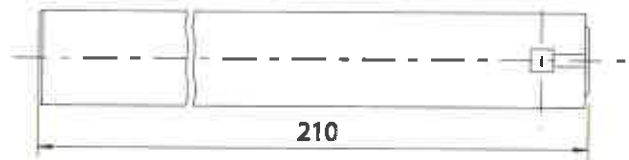
Stroke speed (stroke/min): 35, 54, 79, 112, 160 spm (60HZ)

Driving Motor: 3/4HP-6P

WEIGHT: 150kgs



VSH-C: 6 mm, 7 mm, 8 mm, 10 mm



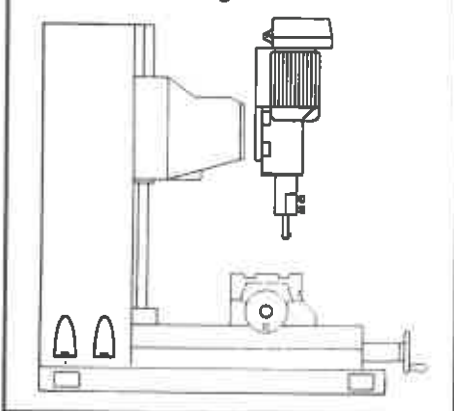
## CUTTER SIZE

ORDER NO.	CUTTER & DESCRIPTION	WEIGHT (kg)	CODE NO.
VSH-6C	Slotting bar 6mm	0.56	1012-013
VSH-7C	Slotting bar 7mm	0.62	1012-014
VSH-8C	Slotting bar 8mm	0.80	1012-015
VSH-10C	Slotting bar 10mm	0.81	1012-016
VSH-FGA	FLANGE A	11	1012-017
VSH-FGB	FLANGE B	23	1012-018

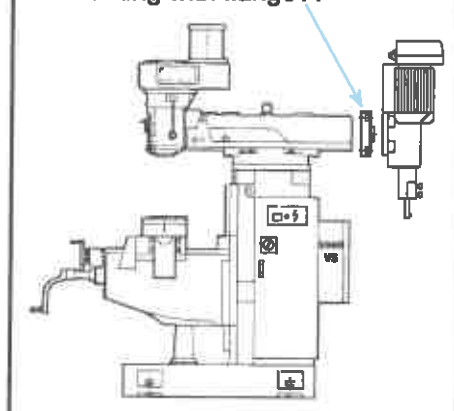
## Optional Accessories

- Flange A
- Flange B
- Slotting bar & cutter 4, 5, 6, 7, 8, 10mm

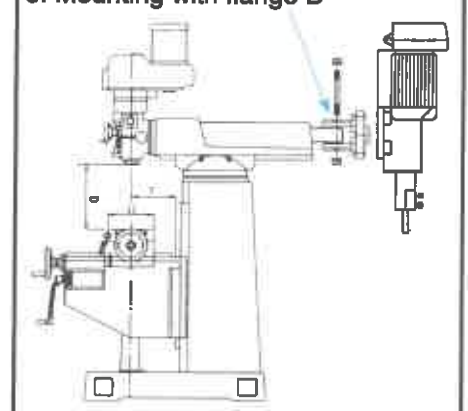
1. Direct mounting



2. Mounting with flange A



3. Mounting with flange B





For grinding HSS and carbide engraving cutter as well as single lip or multiple lip cutters of various shapes such as radiused cutters or negative taper angle of cutters. The universal index head is provided at 24 positions so that any particular angle or shape can be obtained, free 3600 or 100 rotation is allowed for grinding End Mills. Twist Drill. Lathe Tools, only replace the attachment to the index head without any complex setup.

※Please confirm voltage & phase when order.

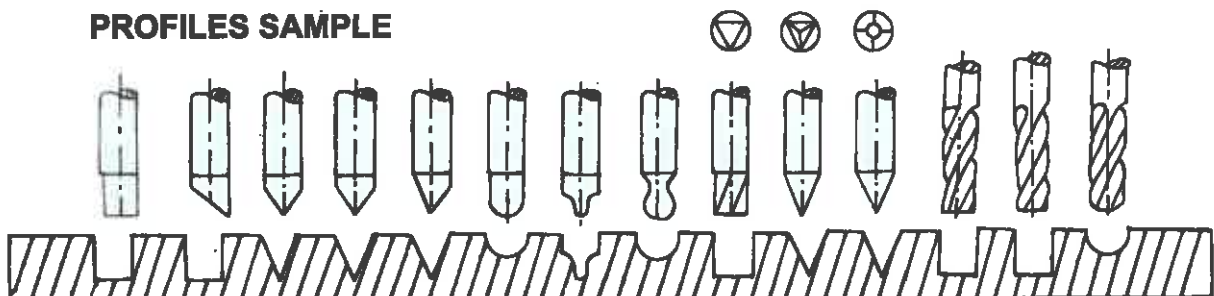
## Technical Data

- Max. Collet capacity  $\varnothing$ 18mm
- Max. Grinding dia.  $\varnothing$ 25mm
- Taper angle  $0^{\circ}$ - $180^{\circ}$
- Relief angle  $0^{\circ}$ - $45^{\circ}$
- Negative angle  $0^{\circ}$ - $26^{\circ}$
- Grinding spindle 3600 r.p.m.
- Cup grinding wheel 100x50x20mm
- Motor 1/3Hp 220V50/60Hz, please notify volt & phase
- Net weight 45kgs
- G.W.: 58kgs
- Machine dimensions (LxWxH) 45x40x35cm
- Packing Dimensions (LxWxH) 55x45x47cm

## Standard Accessory Included

- Wheel dresser with diamond..... 1pc
- Wheel flange (mounted)..... 1pc
- Grinding wheel (stone).....1pc (U2-G)
- Collet  $\varnothing$ 4, 6, 8, 10 12mm..... 5pc
- Aligning finger.....1pc
- Drive belt (U2-B).....1pc (U2-B)
- Lock pin.....1pc
- Tools.....1set

## ENGRAVING AND MILLING CUTTER PROFILES SAMPLE



## Optional Accessory

- Twist drill grinding attachment U2-T
- END mill grinding attachment U2-E
- Lathe tool grinding attachment U2-L
- Grinding wheel balancing stand LBS-100 CODE NO. 2014-010
- Diamond grinding wheel U2-D
- Resinoid Diamond & CBN Wheels U2-R
- Collect (extra 1, 2, 2.5, 3, 5, 7, 9, 16, 18, 20, 25mm and 1/8", 3/16", 1/4", 5/16", 3/8", 1/2", 5/8").  
Detail specification & ORDER No. shown on page U2 collet.

ORDER NO.	CODE NO.
U2-E	1022-010
U2-T	1022-011
U2-L	1022-012
U2-D #100	1022-013
U2-B BELT GREEN	1022-014
U2-B-R BELT RED	1022-018
U2-G WHEEL	1022-016
U2-R #200	1022-017
U2-R-1 #400	1022-017-1
VTC-20	3405-221
U2-COLLET	VE-U2-□

END mill grinding attachment  
CODE NO. 1022-010 U2-E  
WEIGHT: 2kgs

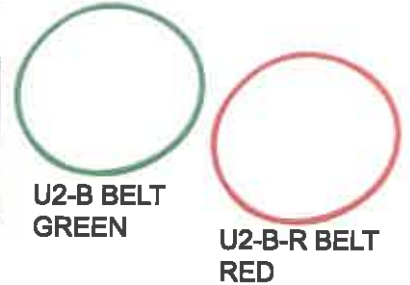


Twist drill grinding attachment  
ORDER NO. U2-T CODE NO. 1022-011  
WEIGHT: 0.9 kg

Lathe tool grinding attachment  
ORDER NO. U2-L  
CODE NO. 1022-012  
WEIGHT: 0.9 kg



BELT  
ORDER NO. U2-B BELT  
CODE NO. 1022-014  
ORDER NO. U2-B-R BELT  
CODE NO. 1022-018



## DIAMOND GRINDING WHEEL



U2-D  
diamond  
grinding wheel



U2-R  
Resinoid Diamond  
& CBN Wheels

**U2 COLLET**  
Please see page C41

ORDER NO.	SIZE	GRAIN	WEIGHT (kgs)	CODE NO.
U2-D	100Dx10Wx5Ux20Hx22T	#100	0.7	1022-013
U2-R	100Dx8Wx2Xx20H	#200	0.5	1022-017
U2-R-1	100Dx8Wx2Xx20H	#400		1022-017-1

- Tool cabinet stand **VTC-20**,  
440 x 340 x 800 mm G.W.: 27.71 kgs  
CODE NO. **3405-221**

• ORDER NO. SHOWN ON PAGE C137



**VTC-20**



**EXAMPLE**



NO.2 Ø18-Ø25



NO.1 Ø3-Ø16

ORDER NO.	SIZE Ø
VE-U2-□	Ø1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 20, 25 mm

U2 COLLET



SPMN 1203

### VCF-500

Accessory: Side Mill Cutter Insert SPUN 422

ORDER NO.	CODE NO.
VCF-500	1023-001
VCF-500W	1023-002
VCF-500F	1023-003



### PRACTICAL

- A. UNIVERSAL APPLICATION.
- B. SIMPLIFIED OPERATION.
- C. FAST-ACCURATE-RATIONAL.
- D. TIME SAVED.

- Tool cabinet stand VTC-20, 440 x 340 x 800 mm  
CODE NO. 3405-221  
PAGE A84



### VCF-500W

Accessory: Grinding Wheel  
100Øx50x17Ø

### FEATURES FOR VCF-500, 500W, 500F

1. Simplified operation, suitable for unskilled personnel.
2. Easily to be bevelled for any length made of steel, cast iron, nonferrous metals, plastics, acrylic etc.
3. 500 : With exchangeable carbide inserts, insert can be changed easily to save cost and increase working ability.
4. 500W: With flange for grinding wheel, suit for steel material, heat treatment workpiece, can be bevelled or chamfered.
5. 500F : Working base on surface milling principles, the deburring procssing surface is same as the milling machine surface.

- \* Please confirm voltage & phase when order.
- \* Guaranteed for 3 months



### VCF-500F

Accessory: Face Milling Cutter  
Insert SEKN 1203

### TECHNICAL DATA

	500	500W	500F
Space requirement	500x320mm	500x440mm	500x220mm
Weight(kgs)	28.5	29.1	29
Voltage	3Ø 220V or 1Ø 110V/220V 50HZ/60HZ 3Ø 380V/415V		
Motor output	0.7KW		
Speed	3500 r.p.m.		
Length of guide rails	500mm	500mm	500mm
Height of bevel	0-3mm		
Bevel angle	15°~45° (Changable)	45°	45°

PLEASE NOTIFY VOLTAGE & PHASE, WHEN YOU ORDERING.  
C.E MARK REQUESTED



**VCF-500S**  
Accessory: Sanding Disc  
165Øx22Ø

ORDER NO.	CODE NO.
VCF-500S	1023-004
VCF-600	1023-005
VCF-700	1023-006

**PRACTICAL**

- A. USING SAND-CLOTH ROLLER FOR CUTTING.
- B. GOOD FOR STEEL. CAST IRON HARDEN PARTS.
- C. NOT FOR SOFT IRON OR ALUMINUM.
- D. IF USED BENT WORKPIECE, THE CHAMFERING SURFACE WOULD NOT SMOOTHLY STRAIGHT.



Light duty

**VCF-600**  
Insert SPMW 321  
ZSPMW 090308

**FEATURES FOR VCF-**

1. 500S: Uses sanding disc, can debur soft and rigid materials.
2. 600 : Easy to carry and time-saving. suitable for large size workpiece which can't be easily moved. The tools can be chamfered 0-3mm bevel angle, radius, arc angle, irregular shape. straight line, outer curve and etc.
3. 700 : The machine is used to carry out chamfering operations on any kind of ferrous material in particular steel and cast iron. Equipped with square-shaped tungsten carbide inserts-12.7x12.7x3.18 ISO 1203 SPUN. Simplified operation suitable for unskilled personnel. 3Ø220V/3Ø380V

※ Please confirm voltage & phase when order.  
※ Guaranteed for 3 months



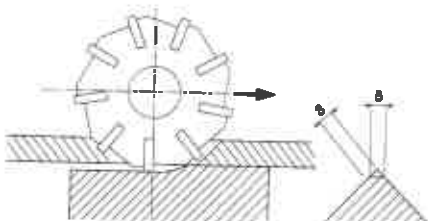
**VCF-700**  
Side mill cutter

Heavy duty

**TECHNICAL DATA**

	VCF-500S	VCF-600	VCF-700
Space requirement	330x410	380x130	360x200x260
Weight(kgs)	26	3.7	14
Voltage	3Ø220V or 1Ø110V/220V 50HZ/60HZ 3Ø380V/415V		
Motor output	0.7KW	0.62KW	0.37KW
Speed	3500 r.p.m.	12000 r.p.m.	3500 r.p.m.
Length of guide rails	320mm	100mm	200mm
Height of bevel	0-3mm	0-3mm	0-7mm
Bevel angle	45°	45°	15°~45° Adjustable

PLEASE NOTIFY VOLTAGE & PHASE, WHEN YOU ORDERING.







# Chamfering & Deburring Unit



ORDER NO.VCF-300A CODE NO.1023-007

NEW



- Process by carbide end mill.
- The range of chamfer: inner dia. 6mm, inner gap width 6mm and 3R arc.
- The chamfer a billity by: 2C/2R.
- The adjustable speed (0-6000rpm) can use for all kinds of materials cutting. (except harden parts)
- This machine was designed for regular and irregular parts such as curved surface, inner gap, and complex of inner and outer parts.
- All bevel angle comes to 45° by 45° carbide end mill.

※ Please confirm voltage & phase when order.

## SPECIFICATION

Accessory	Carbide end mills
Machine size	L330mm x W330mm x H300m
Voltage	1ø, 220V; 50Hz/60Hz
Speed	0~12000 r.p.m.
Distance of Bevel	0~3mm
Bevel angle	45°
N.W. / G.W.	40kgs / 42kgs
Box size	550mm x 440mm x 380mm
Measurement	3.4 Square feet
Motor	1HP
Track Size	300mm x 250mm x 10mm



# Ejector Pin Cutting-off Unit

ORDER NO.VEC-100 CODE NO.1024-001

A PRECISE & SHARP CUTTING TOOL FOR MOULD MAKING LINE

## Features

- Moveable shaft bearing easy operation, safety.
  - For cutting ejector pin of mould. or machine key. round rod.
  - Heat-Treatment materials.  
Good-Looking cutting surface of stainless steel.
  - Handle device according law of lever, it's easy to move on.
  - Cause no vibration, no dust and noiseless.
  - Easy to exchange the emery wheel.
- ※ Please confirm voltage & phase when order.

**ABLE TO CUT ALL THE MATERIAL WITH PLANE SURFACE ALMOST**

## SPECIFICATION

Unit:mm

Max. Cutting capacity	Ø25x300L
Cutting tolerance	20 ± 0.10MM
Cut-off sander lamina	150MM (O.D.)
	1MM (THICK) 19.05MM (HOLE)
R.P.M.	3600
Motor	1/2HP
Measure rule	300MM
Weight (approx.)	94.5KGS
Machine size	620x420x450MM
Packing size	720x520x600MM

PLEASE NOTIFY THE VOLTAGE & PHASE, WHEN YOU ORDERING.



## STANDARD ACCESSORIES

Emery wheel (Ø150x1x19.05mm) 5 PCS



## LARGE & SMALL V SLOT

(For clamping round object)



## EMERY WHEEL ASSEMBLY BY HAND



# Rods Precision Cutting-Off And End Surface Grinding Unit



ORDER NO.	CODE NO.	N.W.	G.W.
VEC-300G	1024-010	89	112
VEC-500G	1024-011	92	115
VEC-600G	1024-012	95	118

### Features

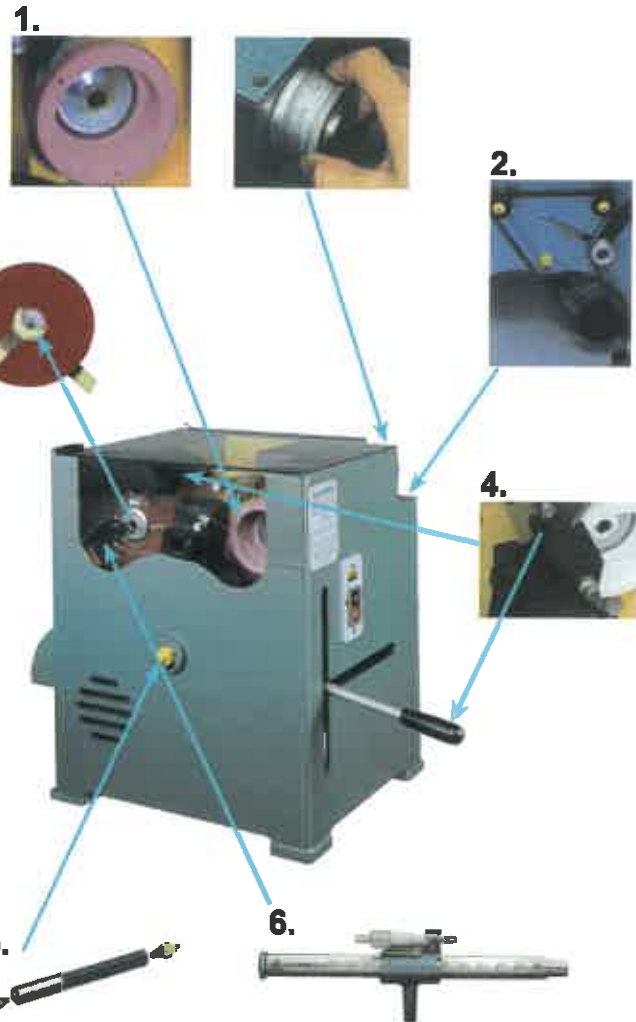
- During operation, the grinding sander may be micro adjusted and repaired without changing its dimensions.
- The tightness of belt may be automatically adjusted and controlled (the larger the resistance, the tighter the belt.)
- The dimensions precision of cutting off the length of working piece are not subject to the effect of the difference of thickness of cutting-off sander piece.
- The rapid chuck is used to hold the working piece in place, opening or closing it is very quick, and  $\varnothing 1-25\text{mm}$  is the same.
- When operation, a shaft with two tapered ends is used for transmission and characterized by high stability low wearing rate and long life.
- The rapid positioning rule is in the unit of 20mm and provided with a micro rule (0mm to 25mm) of which the zeroing point is the dimensions at the rapid positioning point.
- The minimum of cutting length is 60mm



For Clamping



For Cutting & Grinding



The measure rule

### SPECIFICATION

Cut-off precision	25mm $\varnothing$ x 300mm $\pm$ 0.01
Right-angle precision	25mm $\varnothing$ x 90 $^{\circ}$ $\pm$ 0.01
Cut-off sander lamina	1mm t x 180mm $\varnothing$ (Hole) 31.8mm $\varnothing$
Grinding sander surface	27A/PA46IJ x100 x 50 x 20
R.P.M.	3600
Motor	1HP 110/220V 1 or 3 phase
Capacity	VEC-300G 300mm VEC-500G 500mm VEC-600G 800mm
Machine Size	VEC-300G/500G 600 X 550 X 660 mm
	VEC-600G 600 X 550 X 720 mm

- The length of measure: 300mm is for VEC-300G  
500mm is for VEC-500G  
600mm is for VEC-600G  
Except the measure rule length is different, all items of body are same.
- Please notify the voltage & phase, when you ordering



# Dustproof Halogen Lamp Beam



WATER PROOF UNIVERSAL TYPE



## VHL-300 SERIES



VHL-300S

VHL-300M

VHL-300L

### Features

- Coil transformer built in base for directly connect to voltage of Ac power. (110V, 220V, 380V, 24V...)
  - Specify voltage as desired when ordering.
  - It accepts bulb 55W
  - Furnished with 1.8 meter cord with plug.
  - Fitted with coil transformer resisting unstable voltage.
  - Long service life.
  - IP65
  - with water proof articulated arm.
- ※ Please confirm voltage & phase when order.

Unit:mm

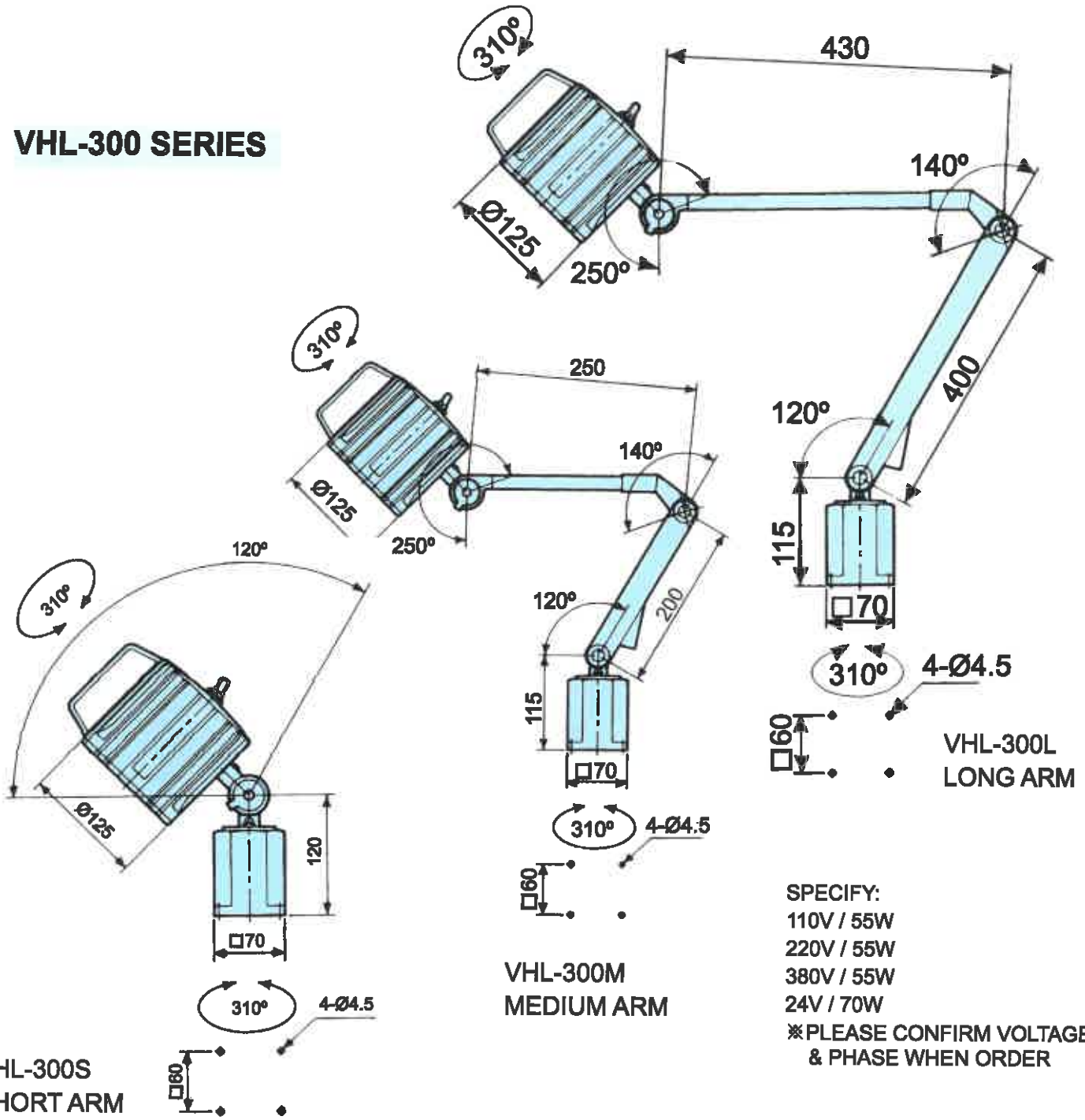
ORDER NO.	ARM LENGTH L x l	WEIGHT (kg)	CODE NO.
VHL-300L	430x400	2.4	1025-001
VHL-300M	250x200	2.1	1025-002
VHL-300S	1 JOINT	2.3	1025-003
J-L02		0.3	1025-004
J-C02		0.5	1025-005

# Dustproof Halogen Lamp Beam **VERTEX**

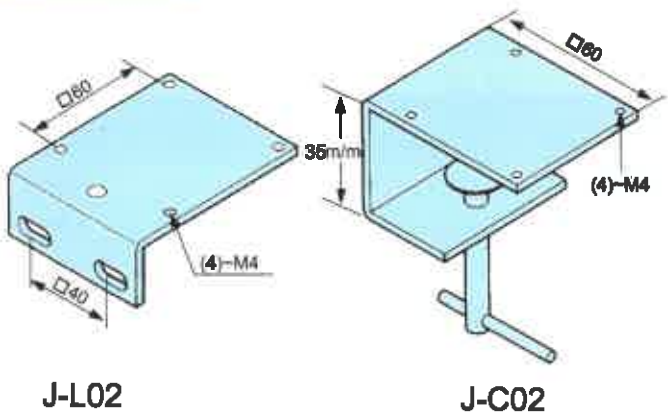
WATER PROOF UNIVERSAL TYPE

## VHL-300 SERIES

LAMP BEAM



• OPTIONAL •



- MOUNTING ANGLE PLATE J-L02
- MOUNTING CLAMP J-C02

Totally enclosed lighting head provides well prevention for explosion, dust, coolant, and lubricants.  
 Uses efficient quartz halogen bulb, great light output, soft illuminating without irritating to the eyes.



# Dustproof Halogen Lamp Beam



WATER PROOF UNIVERSAL TYPE



VHL-300LR



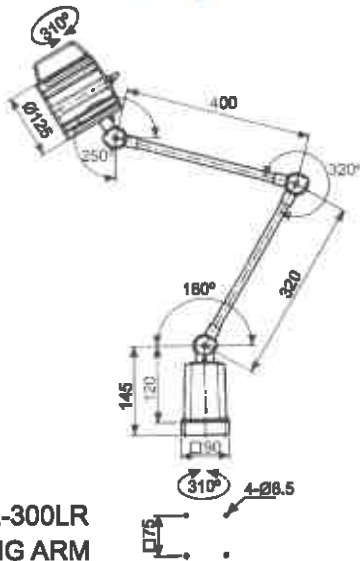
VHL-300MR



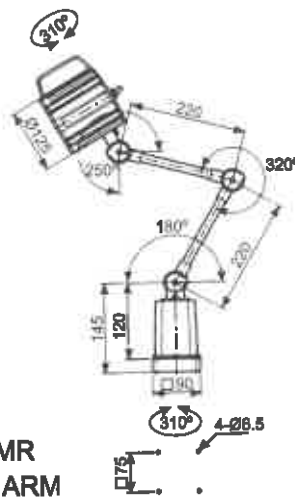
VHL-300SR



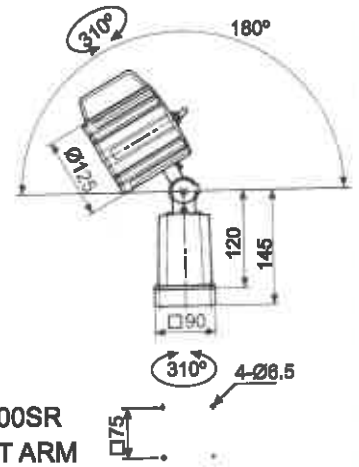
VHL-300 1/2MR



VHL-300LR  
LONG ARM

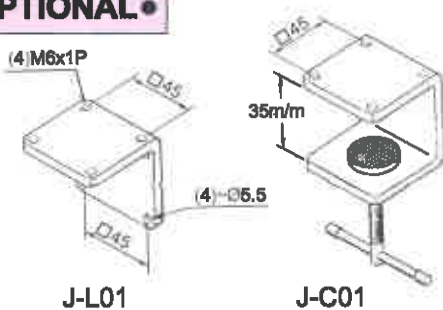


VHL-300MR  
MEDIUM ARM



VHL-300SR  
SHORT ARM

## OPTIONAL



J-L01

J-C01

- MOUNTING ANGLE PLATE J-L01
- MOUNTING CLAMP J-C01

Totally enclosed lighting head provides well prevention for explosion, dust, coolant, and lubricants.

Uses efficient quartz halogen bulb, great light output, soft illuminating without irritating to the eyes.

\*Please confirm voltage & phase when order.

## Features

- Coil transformer built in base for directly connect to voltage of Ac power. (110V, 220V, 380V.....)
- Specify voltage as desired when ordering.
- It accepts bulb 50W, 55W, 70W.
- Furnished with 1.8 meter cord with plug.
- Fitted with coil transformer resisting unstable voltage.
- Long service life.
- With Water proof articulated arm.
- Round tube arm provides great lighting angles.
- IP65

Unit:mm

ORDER NO.	ARM LENGTH L x l	WEIGHT (kg)	CODE NO.
VHL-300LR	400x400 (With Water proof)	4.4	1025-010
VHL-300MR	200x200 (With Water proof)	3.6	1025-011
VHL-300SR	1 JOINT (With Water proof)	2.9	1025-012
VHL-300 1/2MR	200 (With Water proof)	3.4	1025-013
J-L01		0.6	1025-014
J-C01		0.4	1025-015

# Quartz Halogen Lamp Beam



LAMP BEAM



## UNIVERSAL TYPE

- Gooseneck arm for smooth lighting angle adjustment.
- Lighting reaches any direction.

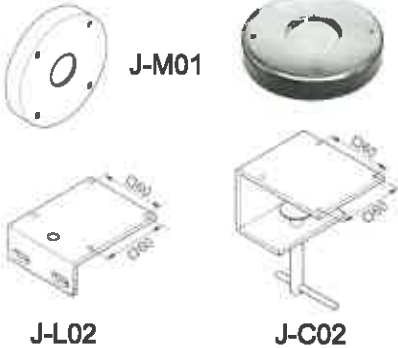
## VHL-20FT SERIES

- Engineering plastic shade and base provides complete insulation for maximum operator safety.
- Power source available: Any voltage on customer's request. Such as 110V, 220V, 240V, 380V, 415V.
- Transformer built in base.
- Accept 20, 35 and 50 watt bulb. Included with 20 watt bulb, 35 and 50 watt bulb on request.
- Furnished with 1.8 meter (70") cord.
- Available with magnetic base. (optional)
- Engineering mounting angle plate. (optional)
- Double shades designed permits fast heat dissipation.

## VHL-20F SERIES

- The quartz halogen lamp has great light output, soft illuminating without irritating to the eyes.
- Low voltage 12 or 24 volt operation without danger of electric shock.
- The articulated arm provides vibration resistance performance.
- Use top quality electric components.
- Accept 20, 35, 50 watt bulb. Included with 20 watt bulb, 35 and 50 watt bulb on request.
- Complete with 1.8 meters (70") cord.
- Economical model, jet quality constructed.
- Ideally suited to machine tools and machinery without big working area.
- Engineering plastic shade and base provides complete insulation.

### OPTIONAL



- MAGNETIC SEAT
- MOUNTING CLAMP J-C02
- MOUNTING ANGLE PLATE J-L02

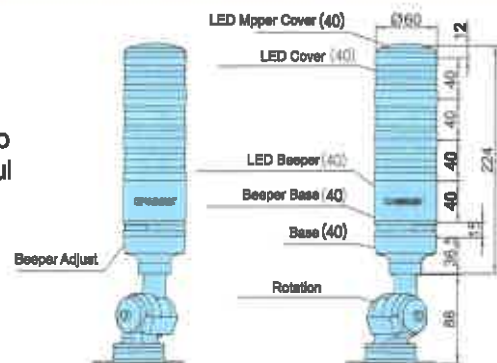
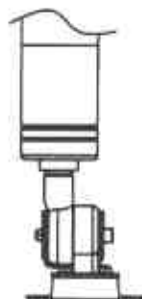
ORDER NO.	WEIGHT(kg)	CODE NO.
VHL-20FT	1.6	1025-020
VHL-20F	1.1	1025-021
J-M01	0.6	1025-006
J-L02	0.3	1025-004
J-C02	0.5	1025-005

※ Please confirm voltage & phase when order.

# Water - Proof Bright LED Signal Light



- Signal light with feature of multi-function, water pro
  - Lamp of signal light, adopted high efficient LED bul
- ※ Please confirm voltage & phase when order.



- Suit for machine tools & etc, show singal of machine process
- Good for automatic process line multi angle
- Double layer lamp shade high illumination LED water & dust proof-steam 360° lighting without shade

ORDER NO.	Bulb	Enclosure IP	weight (kgs)	CODE NO.
VLED-SL	24V	IP54	0.77	1025-026



# Waterproof Reflector LED Lamp VERTEX®

NEW



- The products wide illumination range and brightness makes it suitable for areas requiring wide-range illumination. it is suitable for various machine tools when installed on different mounts, particularly machine tools within closed operating environments.

- Enclosure IP : IP67
- Wide illuminating range suit for various machine tools. Water proof & dust proof good for under ground environment.
- The protective cover is waterproof and dustproof, the lamp is conducive for subways, mines, and tunnel environments.

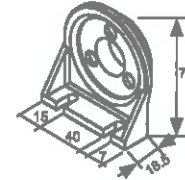
ORDER NO.	VOLTAGE	LAMP LENGTH	BULB	UMINATION DISTANCE	WEIGHT (KGS)	CODE NO.
VLED-W13	110V / 220V	448 mm	12W	0.5 m / 500 lux	2.2	1025-058
VLED-W18	110V / 220V	520 mm	12W	0.85m / 500 lux	2.5	1025-058A
VLED-W36	110V / 220V	734 mm	24W	1.10 m / 500 lux	3.5	1025-059

### OPTIONAL

※ Color Temperature: 5500 K-6000 K

ORDER NO	WEIGHT	CODE NO.
VLED-102	0.41	1025-116

※ Please confirm voltage & phase when order.



# Workshop LED Lamp

WATER RESIST

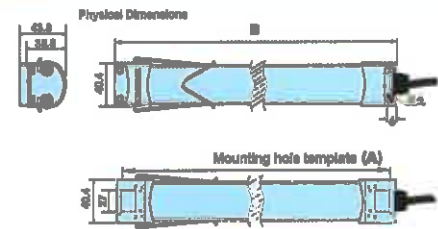
NEW



MAGNETIC FOR HOOK

MAGNETIC FOR HOOK

- For garage & workshop
- Light weight & durable
- 3 attach way : magnet, hook & stand
- IP67 water proof
- Angle 120°
- Samsung 5630LED
- 5300 K



### OPTIONAL

ORDER NO.	A	B
VLED-1080	290	300
VLED-2160	510	520

ORDER NO.	VOLTAGE	LAMP LENGTH	BULB	1 m	UMINATION DISTANCE	WEIGHT KGS)	CODE NO.
VLED-1080	110V ~ 240V	300 mm	7.5W	1080 1m	0.65 m / 500 lux	0.61	1025-080
VLED-2160	110V ~ 240V	520 mm	15W	2160 1m	1.0 m / 500 lux	1.07	1025-081



# Cool Light Beam

WATER RESIST

D SERIES



DB SERIES



Outstanding Water-resist Performance



- Suited for machine lighting. indoor and outdoor lighting.
- Cool lighting performance.
- Anti-crack lamp.
- Swivelling mounting bracket (opional).
- Accommodates power source 110V or 220V. single voltage only.

- Specify HZ and voltage when ordering.
- The outer tube is manufactured from acrylic. When requested, the glass outer tube is available.
- Furnished with 1.8 meter (70") cord.
- ※ Please confirm voltage & phase when order.

### Separate ballast series

ORDER NO.	LAMP LENGTH	BULB LENGTH	WATT	DIA	WEIGHT (kg)	CODE NO.
VHL-W36D/PL	621mm	385mm	36	70mm	2.9	1025-034

### Built-in ballast series

ORDER NO.	LAMP LENGTH	BULB LENGTH	WATT	DIA	WEIGHT (kg)	CODE NO.
VHL-W15DB	717mm	436mm	15	70mm	3.5	1025-041
VHL-W18DB/PL	525mm	195mm	18	70mm	2	1025-042
VHL-W20DB	861mm	580mm	20	70mm	3.6	1025-043

# Magnifying Fluorescent Work Light Beam VERTEX<sup>®</sup>

WITH 5X LENSE



LAMP BEAM



VHL-30TEB  
BENCH TYPE

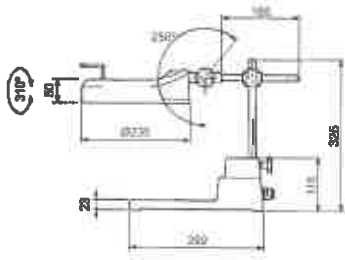


VHL-30MEB

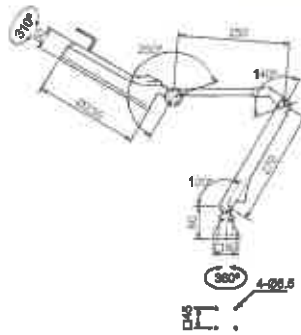


3 Diopter auxiliary lens  
(optional)

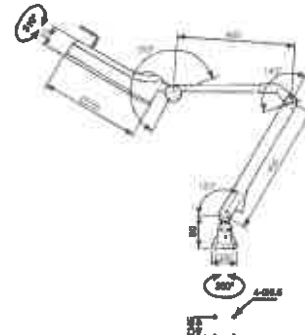
VHL-30LEB



VHL-30TEB BENCH TYPE



VHL-30MEB MEDIUM ARM



VHL-30LEB LONG ARM

## VHL-30TEB

- Bench type model.
- Constructed with a wide base for placing object, allowing it especially suited for inspection lighting.
- Electronic ballast is built in arm.
- Accepts 22 watt fluorescent tube.
- ✳ 110V, or 220V operation. Supplied single voltage only. Specify desired voltage when ordering.
- Furnished with 1.8 meter cord with plug. Extended cord length is available when required.

Designed with a magnifier lens on luminaire head giving 5 Diopter of magnification 2.25x than actual object. The fluorescent lighting provides day light effect without flash.

### OPTIONAL

ORDER NO. VHL-3X  
3 Diopter magnifier lens=1.75X

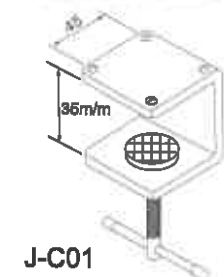


### OPTION



J-L01  
MOUNTING ANGLE  
PLATE

### STANDARD ACC.



J-C01  
MOUNTING CLAMP  
PLATE

## VHL-30 MEB

- Medium arm model.
- Electronic ballast is built in arm.
- Accepts 22 watt fluorescent tube.
- 110V, or 220V operation. Supplied single voltage only. Specify desired voltage when ordering.
- Furnished with 1.8 meter cord with plug. Extended cord length is available when required.

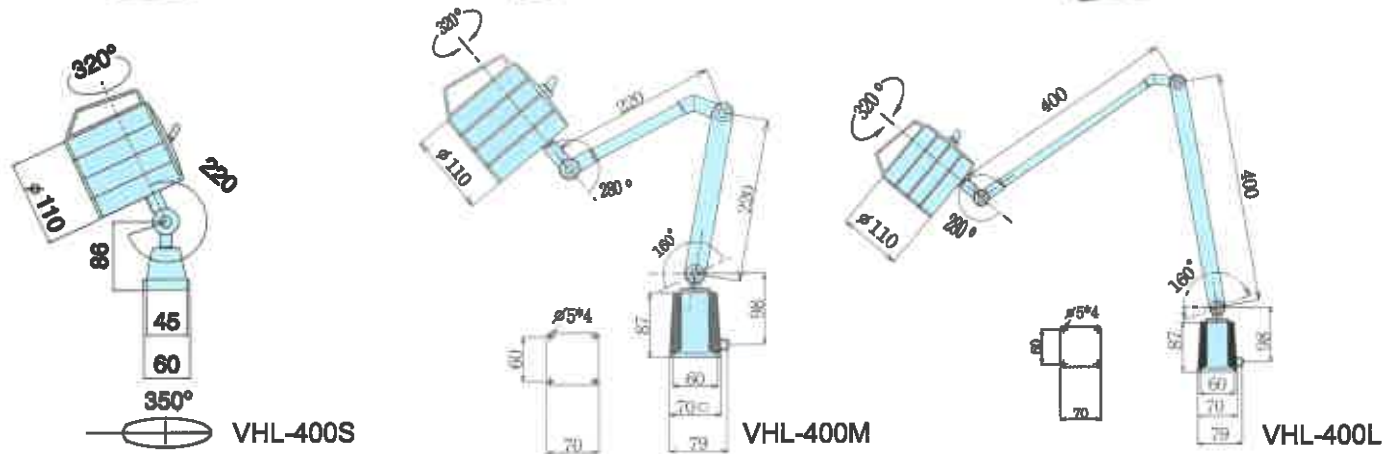
## VHL-30 LEB

- Long arm model.
- Electronic ballast is built in arm.
- Accepts 22 watt fluorescent tube.
- 110V, or 220V operation. Supplied single voltage only. Specify desired voltage when ordering.
- Furnished with 1.8 meter cord with plug. Extended cord length is available when required.

ORDER NO.	WEIGHT (kg)	CODE NO.
VHL-30TEB	3.5	1025-060
VHL-30MEB	2.9	1025-062
VHL-30LEB	2.9	1025-063
J-L01	0.6	1025-014
VHL-3X	0.3	1025-065

- All VHL-XXXEB work lights are with 5 Diopter magnifier lens, The MAX.=5+3=8 Diopter





## WATER-PROOF HALOGEN LIGHTING LAMP (VHL-400L SERIES)

LIGHTING HEADS OF THESE SERIES WITH SPECIFIC FEATURES OF WATER-PROOF, DUST-FREE, ANTI-LUBRICAT, ANIT-CUTTING OIL, ETC. THE LIGHTING UNITS ADPOTED WITH A BULB (12V/50W). CUSTOMERS' SPECIFICATIONS ALSO ACCEPTED.

### VHL-400L

- Water-proof lighting head with reinforced glass resists big temperature fluctuations of cutting oil.
- 12V/24V Voltage.
- Flexible Arm (round arm), 400x400mm
- With universal Lighting Base.
- Specifications of Bulb: 12V/50W.
- Different conditions demand different lighting bases. Selected rectangular L-type (#V-20) base or C-type (#V-21) base.

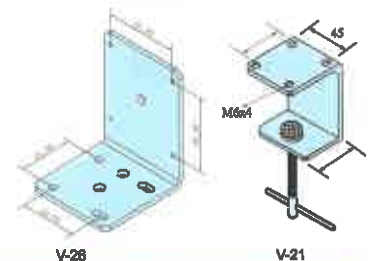
### VHL-400M

- Performance & features: same as, but with shorter flexible arm at 220x185mm.

### VHL-400S

- Specially designed to fit particular locations and spaces, The flexible arm is very short.

### OPTIONAL



ORDER NO.	VOLTAGE	BULB	ARM LENGTH L x l	OPTIONAL ACCESSORIES	WEIGHT (N.W.)	CODE NO.
VHL-400L	110V - 220V	12V 50W	400x400	V-26	3.8	10 25-100
VHL-400M	110V - 220V	12V 50W	220x220	V-26	3.5	1025-101
VHL-400S		12V 50W		V-20 / V-21	2.8	1025-102

ORDER NO.	WEIGHT (kg)	CODE NO.
V-21	0.48	1025-107
V-26	0.19	1025-108

# Water-Proof Halogen Lighting Beam VERTEX®



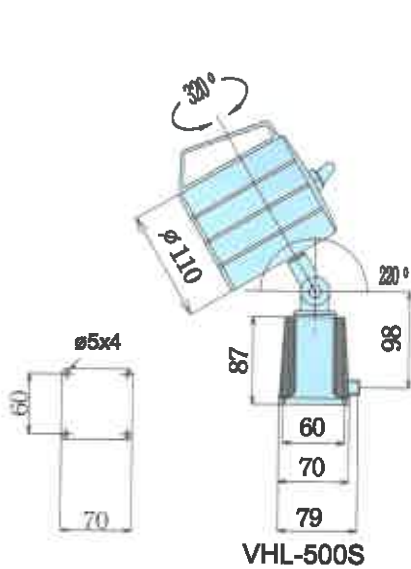
LAMP BEAM



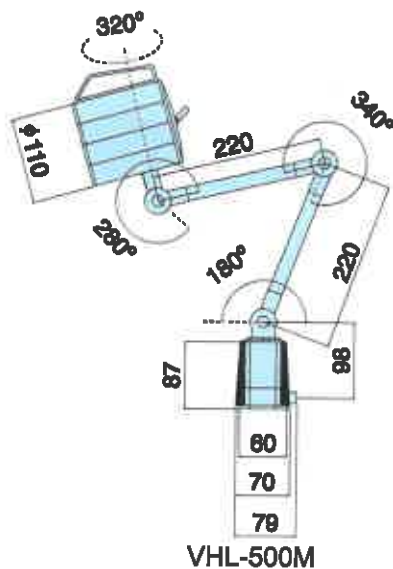
VHL-500S

VHL-500M

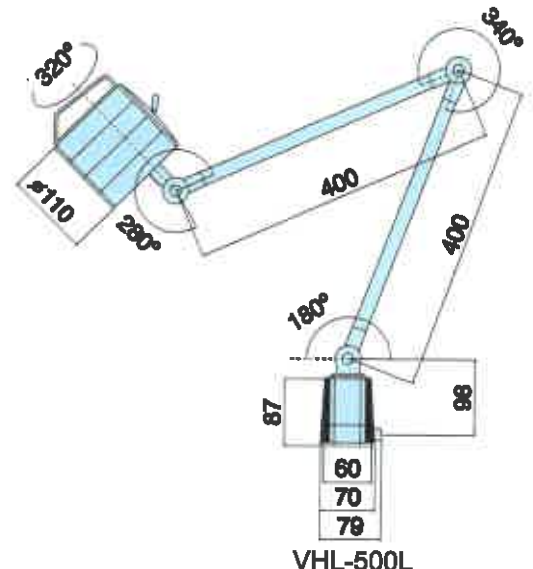
VHL-500L



VHL-500S



VHL-500M



VHL-500L

## VHL-500L

● Performance & features of these series: same as. The main difference is that VHL-500L can be installed with a shorter arm, and connected with AC current below 240V.

※ Please indicate the required voltage when placing the orders to us.

● Specifications of the bulb: 12V/50W

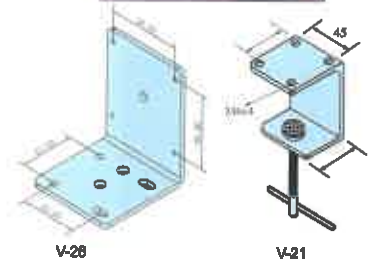
## VHL-500M

● Same specifications as VHL-500L, but with shorter flexible arm at 220x220mm.

## VHL-500S

● Specially designed to fit particular locations and spaces. The flexible arm is very short.

## OPTIONAL



V-26

V-21

ORDER NO.	VOLTAGE	BULB	ARM LENGTH L x l	OPTIONAL ACCESSORIES	WEIGHT (N.W.)	CODE NO.	ORDER NO.	WEIGHT (kg)	CODE NO.
VHL-500L	110V - 220V	12V 50W - 24V 50W	400x400	V-26	4	1025-103	V-21	0.48	1025-107
VHL-500M	110V - 220V	12V 50W - 24V 50W	200x220	V-26	3.8	1025-104	V-26	0.19	1025-108
VHL-500S	110V - 220V	12V 50W - 24V 50W		V-26	2.7	1025-105			



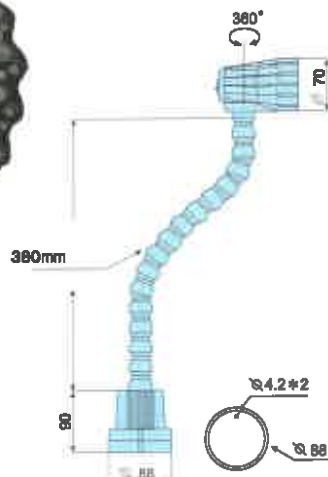
# Dustproof Halogen Lamp Beam



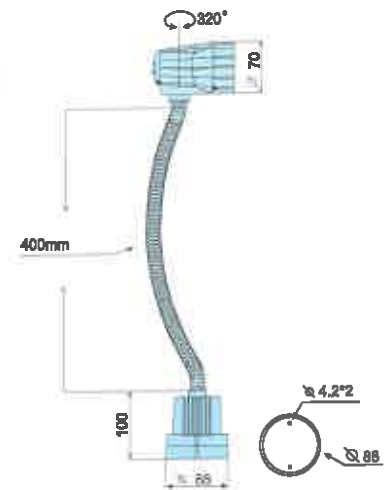
WITH TRANSFORMER & MAGNETIC BASE



VHL-600FT



VHL-700FT



## Features

- VHL-600FT, VHL-700FT type ideal for work-place lighting if bright concentrated light is required in performance not too large area illumination. Built in transformer.
  - Suitable for use at small machine such as CNC engraving machine, sewing machine, lathe machine, working benches and working table.....etc.
  - VHL-700FT with flexible arm.
- \*Please confirm voltage & phase when order.

ORDER NO.	VOLTAGE	BULB	ARM LENGTH L x C	OPTIONAL ACCESSORIES	WEIGHT N.W.(KGS)	CODE NO.
VHL-600FT	110V - 220V	12V 20W	380	M-23	1.7	1025-109
VHL-700FT	110V - 220V	12V 20W	400	M-23	1.7	1025-110

V-B15		12V 50W / 24V 50W			0.009	1025-111
V-B16		12V 55W / 24V 70W			0.009	1025-112
V-T17	415V - 12 / 415V - 24 380V - 12 / 380V - 24 230V - 12 / 230V - 24				1.47	1025-113
V-T18	415V - 12 / 415V - 24 380V - 12 / 380V - 24 230V - 12 / 230V - 24				1.4	1025-114

V-T17



TRADITIONAL TRANSFORMER V-T17 SUITABLE FOR VHL-400 SERTES VHL-500 SERTES

V-T18



EXTERIOR DUST-FREE TRANSFORMER V-T18 Voltage below 415V. Can be installed anywhere. Dust-Free, leakage-proof and oil-proof.

V-B15



V-B15 12V/50W, 24V/50W Those bulb for VHL-400, VHL-500 series

V-B16



V-B16 24V/70W, 12V/55W Those bulb for VHL-400, VHL-500 series

# Water Proof LED Lamp



**NEW**

**ENERGY SAVING**

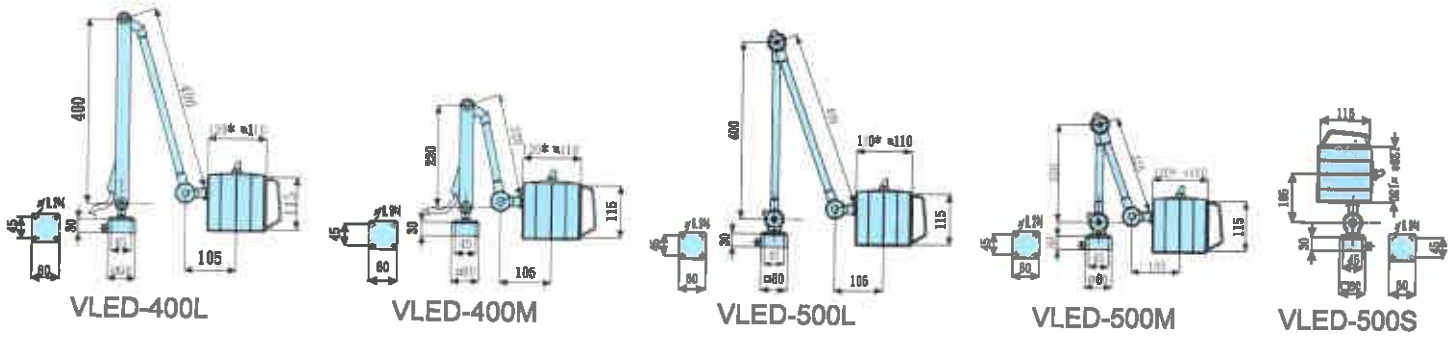
**UNIVERSAL TYPE**

**LED TYPE**

**LAMP BEAM**



VLED-400L      VLED-400M      VLED-500L      VLED-500M      VLED-500S



VLED-400L      VLED-400M      VLED-500L      VLED-500M      VLED-500S

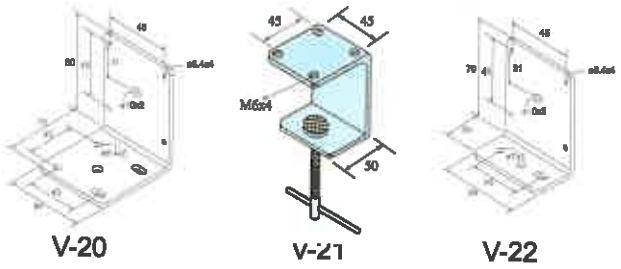
**Features**

- Energy saving
- Luminous flux: 780~800 lumen
- LED light long service life
- 1 year guarantee
- 1.8 meter coil
- White light
- No high heat produce
- Dust/water proof
- Specify voltage when ordering
- For any working place, stable quality
- Suit for CNC, engraving, drill press machine, lathe, wood and mold industry

※Please confirm voltage & phase when order.

ORDER NO.	VOLTAGE	BULB	ARM		WEIGHT N.W.(KGS)	CODE NO.
			L x I	TUBE STYLE		
VLED-400L	110V / 220V	9W	400 X 400	SQUARE	2.12	1025-130
VLED-400M	110V / 220V	9W	220 X 220	SQUARE	1.96	1025-131
VLED-500S	110V / 220V	9W	JOINT	ROUND	1.6	1025-132
VLED-500L	110V / 220V	9W	400 X 400	ROUND	2.42	1025-136
VLED-500M	110V / 220V	9W	220 X 220	ROUND	2.3	1025-137

**OPTIONAL**



- LED9W High lumen 780~800 Led light bulb

**OPTIONAL ACCESSORIES**

ORDER NO.	WEIGHT (kg)	CODE NO.
V-20	0.28	1025-106
V-21	0.48	1025-107
V-22	0.16	1025-119
LED9W	0.19	1025-141A

Totally enclosed lighting head provides well prevention for explosion, dust, coolant, and lubricants.



# Concentrate LED Lamp



UNIVERSAL TYPE



NEW



### Features

- Energy saving
- LED light long service life
- 1 year guarantee
- Luminous flux: 250~330 lumen
- No high heat produce
- Dust proof
- Flexible & folding arm
- Built-in transformer
- Sult for small CNC, engraving, sewing machine, drill press, lathe, and working table

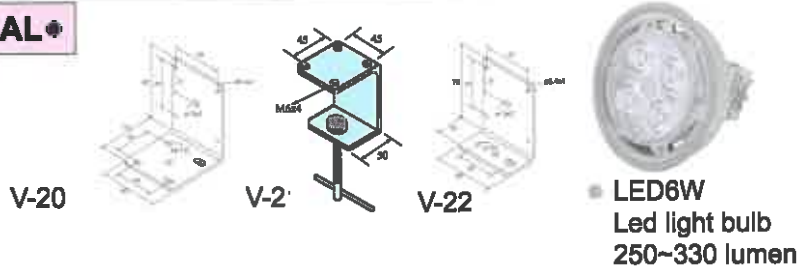
VLED-30L

VLED-30M

※Please confirm voltage & phase when order.

ORDER NO.	VOLTAGE	BULB	ARM L x ℓ	WEIGHT N.W.(KGS)	CODE NO.
VLED-30L	INPUT: 220V OUTPUT: AC / DC 12V	12V 6W	400 X 310 mm	2	1025-125
VLED-30L	INPUT: 110V OUTPUT: AC / DC 12V	12V 6W	400 X 310 mm	2	1025-126
VLED-30M	INPUT: 220V OUTPUT: AC / DC 12V	12V 6W	220 X 310 mm	1.8	1025-127
VLED-30M	INPUT: 110V OUTPUT: AC / DC 12V	12V 6W	220 X 310 mm	1.8	1025-128

### OPTIONAL



### OPTIONAL ACCESSORIES

ORDER NO.	WEIGHT (kg)	CODE NO.
V-20	0.28	1025-106
V-21	0.48	1025-107
V-22	0.16	1025-119
LED6W	0.14	1025-140



# Wide Range LED Lamp

NEW



### Features

- Power consumption :21.5W
- Angle:36°
- Color temperature:2800K
- Lumens value:210 lm
- Voltage:AC 220V power 12V
- With transformer built-in

### OPTIONAL



ORDER NO.	VOLTAGE	BULB	ARM L x ℓ	WEIGHT N.W.(KGS)	CODE NO.	ORDER NO.	WEIGHT (kg)	CODE NO.
VHL-50FT	AC 220V	12V / 20W	500 mm	1.69	1025-151	V-51	0.52	1025-161
						V-52	0.27	1025-162

# Wide Range LED Lamp



With built-in Transformer

### Features

- Power consumption :2.3W
- Consumption current:110V/23MA OR 220V/39MA
- LED:3W
- Angle:45°
- Color temperature:5700K
- IP54
- Lumens value:135 lm

### OPTIONAL



V-54



V-55

Mounting Angle plate

ORDER NO.	WEIGHT (kg)	CODE NO.
V-54	0.5	1025-163
V-55	0.2	1025-164

ORDER NO.	VOLTAGE	BULB	ARM L x /	WEIGHT N.W.(KGS)	CODE NO.
VHL-37FT	AC 100V-240V	3W	370 mm	0.60	1025-152

# Concentrate LED Lamp

**NEW** **CE** WITH TRANSFORMER & MAGNETIC BASE



### Features

- Energy saving
- LED light long service life
- 1 year guarantee
- Luminous flux: 250~330 lumen
- No high heat produce
- Dust proof
- Flexible & folding arm
- Built-in transformer
- Suit for small CNC, engraving, sewing machine, drill press, lathe, and working table
- ※ Please confirm voltage & phase when order.

### OPTIONAL



- LED6W Led light bulb 250~330 lumen



V-23



V-27

ORDER NO.	VOLTAGE	BULB	ARM L x /	WEIGHT N.W.(KGS)	CODE NO.	ORDER NO.	WEIGHT (kg)	CODE NO.
VLED-20L	INPUT: 220V OUTPUT: AC / DC 12V	12V 6W	400 mm	1.2	1025-120	V-23	0.27	1025-117
VLED-20L	INPUT: 110V OUTPUT: AC / DC 12V	12V 6W	400 mm	1.2	1025-121	V-27	0.21	1025-118
						LED6W	0.14	1025-140

# Concentrate LED Lamp



### Features

- Power consumption : 5.3 W
- Consumption current : 110V/85MA, 220V/48MA
- Hpllips LED MR16
- LED : 4.2 W
- Angle : 24°
- Luminous intensity : 1150 cd
- Color temperature : 6500 K
- Lumens value : 285 lm
- Life : 1 year guarantee
- With mounting Angle plate

※ Please confirm voltage & phase when order.

### OPTIONAL



- LED6W Led light bulb 250~330 lumen

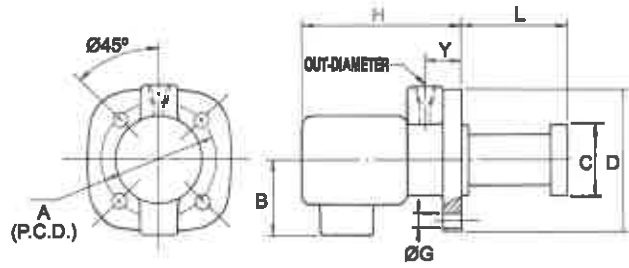
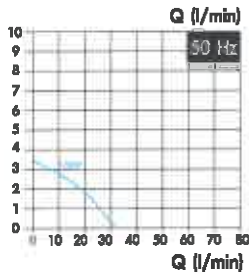
ORDER NO.	VOLTAGE	BULB	ARM L x /	WEIGHT N.W.(KGS)	CODE NO.	ORDER NO.	WEIGHT (kg)	CODE NO.
VLED-50FT	110V / 220V	12V6W	500mm	1.7	1025-150	LED6W	0.14	1025-140



# 1/8 HP. Under Water Coolant Pump **VERTEX**

## Features

This is the pump in best quality with anti-rust treatment, use high grade material for the complete set and has been duly inspected in five steps by precision electron device.



※ Please confirm voltage & phase when order.

Unit:mm

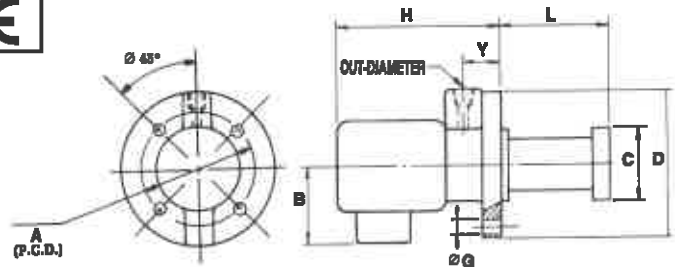
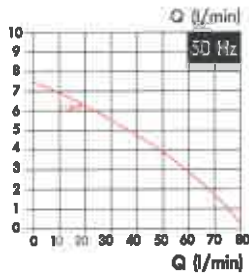
ORDER NO.	TYPE	POWER	L mm	PUMPING WATER		WEIGHT (kg)	CODE NO.
				1 mmin	2 mmin		
VWP-0810	UNDER WATER	1/8 HP	100	276-286	256-266	5.5	1026-001
VWP-0813			130				1026-002
VWP-0815			150				1026-003
VWP-0818			180				1026-004

Unit:mm

POWER	A	B	C	D	G	H	Y	OUT-DIAMETER
1/8 HP	128±0.2	105	Ø90	Ø150	Ø8	160	19	PT 3/8



# 1/4 HP. Under Water Coolant Pump



※ Please confirm voltage & phase when order.

Unit:mm

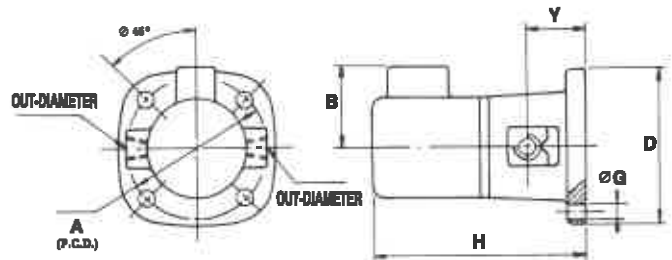
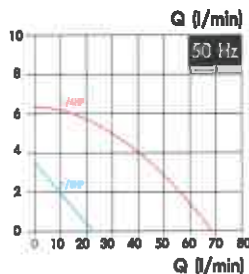
ORDER NO.	TYPE	POWER	L mm	PUMPING WATER		WEIGHT (kg)	CODE NO.
				1 mmin	2 mmin		
VWP-0415	UNDER WATER	1/4 HP	160	746-766	716-726	11.1	1026-010
VWP-0418			180				1026-011
VWP-0420			200				1026-012
VWP-0424			240				1026-013
VWP-0427			270				1026-014

Unit:mm

POWER	A	B	C	D	G	H	Y	OUT-DIAMETER
1/4 HP	158±0.2	125	Ø122	Ø180	Ø8	180	26	PT 1/2



# Self Priming Coolant Pump 1/8 HP. 1/4 HP



※ Please confirm voltage & phase when order.

Unit:mm

Unit:mm

POWER	A	B	D	G	H	Y	IN-DIAMETER	OUT-DIAMETER	ORDER NO.	TYPE	POWER	PUMPING WATER		WEIGHT (kg)	CODE NO.
												1 mmin	2 mmin		
1/8 HP	140±0.2	105	165	Ø8	195	50±0.5	PT 3/8	PT 3/8	VWP-089	SELF PRIMING	1/8 HP	266-276	246-256	5.9	1026-020
1/4 HP	185±0.2	125	225	Ø8	240	65±0.5	PT 1/2	PT 1/2	VWP-049	PRIMING	1/4 HP	736-756	706-716	11.6	1026-021



# Coolant Pump Kit



1/8 HP & 1/4 HP



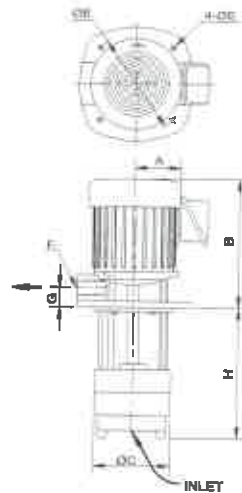
COOLANT PUMP

## SET INCLUDING

- Coolant pump
  - Coolant tank
  - Connecting cable (w/plug for 1 ph)
  - Coolant hose kit w/magnetic base
  - Flexible conveying hose
  - Drain hose
  - Tool kits
  - ON/OFF switch (for 1ph)
- \*Please confirm voltage & phase when order.

ITEM	ORDER NO.	VWP-81-150K	VWP-41-180K
Coolant pump (HPxH)		1/8 HP x 150mm	1/4 HP x 180mm
Tank size (LxWxH)		350x250x185mm	500x350x200mm
Volume of coolant tank		16ℓ	35ℓ
Connecting cable		2000mm	2000mm
Coolant hose kits w/magnetic base (ØxL)		1/4" x 330mm	3/8" x 360mm
Flexible conveying hose (ØxL)		3/8" x 1500mm	3/8" x 1500mm
Drain hose (ØxL)		1" x 300mm	1-1/4" x 400mm
Weight(kgs)		10.8	33
CODE NO.		1026-030	1026-031

# Under Water Type Multi-stage High Pressure Coolant Pump



## Special Features

- Discharge available in either N.P.T / P.T.
- Heavy duty bearings greased for long life and easy maintenance.
- Multi-stages., up to 6 stages for pressure over 9kg/cm<sup>2</sup> staggered discharge ports equalize radial loads for increasing pump life.
- Stainless steel made enclosed impeller., increasing pump efficiency and flow volumn.
- Rigid and strong one-piece shaft.

\*Please confirm voltage & phase when order.

## SPECIFICATION

ORDER NO.	STAGE	HP	A	B	C	D	E	F	G	H	PRESSURE kg/cm <sup>2</sup> (PSI)	VOLUMETRIC DELIVERY (ℓ/min)		DELIVERY HEAD (m)	WEIGHT (kg)	CODE NO.
												EMULSION	COOLING OIL			
VWP-MS2-180	2	3/4	135	255	135	9	170	3/4" or 1" (option)	28	180	3 (42)	140	116	30	15	1026-040
VWP-MS2-250										250						
VWP-MS3-200	3	1	135	275	135	9	170	3/4" or 1" (option)	28	200	4.5 (64)	140	116	45	16	1026-042
VWP-MS3-250										250						
VWP-MS4-230	4	1 1/4	135	275	135	9	170	3/4" or 1" (option)	28	230	6 (85)	140	116	60	18	1026-044
VWP-MS4-180										180						
VWP-MS5-210	5	1 1/2	135	275	135	9	170	3/4" or 1" (option)	28	210	7.5 (106)	140	116	75	20	1026-046





LT-4

- Rattling hand pump LT model**

Rattle the lever of the pump reiteratively and the oil will be pressured into the main pipe. When the lever is released, it will return to the original position automatically.

ORDER NO.	Discharged amount (c.c/st)	Max. discharged pressure (kg/cm <sup>2</sup> )	capacity (c.c)	Efficient capacity (c.c)	WEIGHT (kg)	CODE NO.
LT-4	4	15	230	200	0.7	1026-050



LT-6

- Rattling hand pump LT model**

The discharged amount and pressure are higher than those of LT-4 and the operation method is just the same.

ORDER NO.	LT-6	LT-18	LT-18A
Size (AxB)	85x85	100x110	98x107
Weight	1.2kg	1.6kg	1.6kg

ORDER NO.	Discharged amount (c.c/st)	Max. discharged pressure (kg/cm <sup>2</sup> )	capacity (c.c)	Efficient capacity (c.c)	CODE NO.
LT-6	6	15	350	250	1026-061
LT-18	8	15	600	400	1026-062
LT-18A	8	15	650	450	1026-063



EA-8R

- Pulling type hand pump EA model**

Pull the lever of the pump reiteratively and the oil will be discharged at the up or down port.

ORDER NO.	Discharged amount (c.c/st)	Max. discharged pressure (kg/cm <sup>2</sup> )	capacity (c.c)	Efficient capacity (c.c)	WEIGHT (kg)	CODE NO.
EA-8 R	8	3.5	600	500	1	1026-070
EA-8 L						1026-071

The installation machine could be selected either the right side marked "R" or the left side marked "L"

# Hand Lubrication Pump



LA-8L

## • Depressing type hand-pump model LA

Depress the lever repeatedly, first. The oil Will be pressured out when it's depressed. Only after the lever is released, the pressured oil will be discharged.

ORDER NO.	Discharged amount (c.c/st)	Max. discharged pressure (kg/cm <sup>2</sup> )	capacity (c.c)	Efficient capacity (c.c)	WEIGHT (kg)	CODE NO.
LA-8 R	1~8	5	1000	800	1.4	1026-082
LA-8 L						1026-083

The installation position of a machine could be selected either the right side marked "R" or the left side marked "L"

## • Operation Instructions:

When move the operating rod, the plunger (iron core) will be moved simultaneously so as to make cylinder become under negative pressure. Then, due to closed air pressure of the tank, the grease will get into the cylinder from the suction port. Now, operate the rod to extrude out the grease through pipe in the cylinder by principle of the plunger pushing open the check valve. When inside pressure reaches to the specific pressure of 100kg/cm<sup>2</sup>, down pressure valve will start to return the grease to the oil tank. The operating rod is to use of a spring to link on the injector, while the oil tank is tightly fixed on the injector as a round storage tank to prevent from oil leaking.

## Advantages:

- Has smooth stickness to the lubricating surface with proper oiling capacity, so no surplus oil will be leaked out to stain with the surface of bench.
- No need to worry about the dirt & impurities entered into the oiling port, so it is more clean than other ways of lubrication.
- Manual type pump. Use of single pipe, so no need of pipe return device. With simple piping for best effect.



LA-1403

LA-2403

ORDER NO.	A	B	C	OIL	c.c./stroke	VOLUME c.c.	PRESSURE kg/cm <sup>2</sup>	VALVE	SPRAY MOUTH	CODE NO.
LA-1403	290	150	70	MACHINE OIL	2	300	60	SD	60 □	1026-100
LA-1408	310	205	90			800				1026-101
LA-2403	290	150	70	GREASE	2	300	100	SD	60 □	1026-102
LA-2408	310	205	90			800				1026-103

# Electrical Automatic Pump Sma Model



## • Electrical automatic pump SMA model

The outstanding performances of SMA models belong to intermittent oil supply pumps whose specification are classed into four kinds by the frequency and the discharged amount is adjustable within the range of 1~3c.c.

ORDER NO.	Frequency (time / min)	Discharged amount (c.c/st)	Max. discharged pressure (kg/cm <sup>2</sup> )	Capacity (l)	WEIGHT (kg)	CODE NO.
SMA-3	Choose to pump every 5 or 10 or 15 or 30 or 60 mln.	1~3	3	2	1.8	1026-090
SMA-6		3~	3	2	1.8	1026-091
SMA-8.5		4~8.5	3	2	1.9	1026-092

Motor's voltage is AC 110V or 220V

\*Please choose FREQUENCY when order.

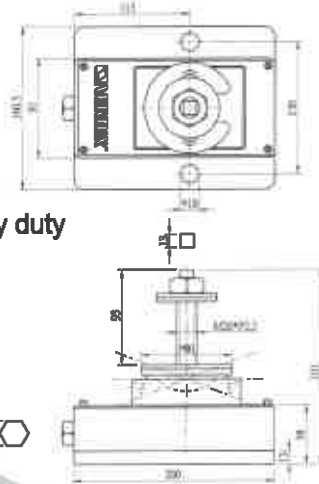
SMA MODEL (AUTOMATIC)

# Shock Absorber

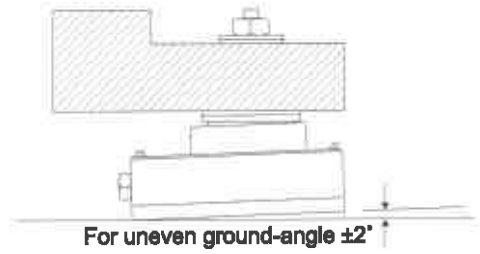
PATENT



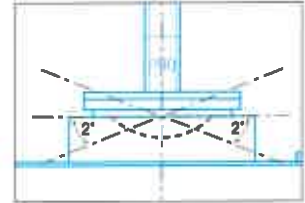
Machine Stand



SPACER FOR MORE ADJUSTABLE



- Leveling
- Reduce Vibration
- Increase Stability
- Frictionless
- Precision & Accurate



### STEP

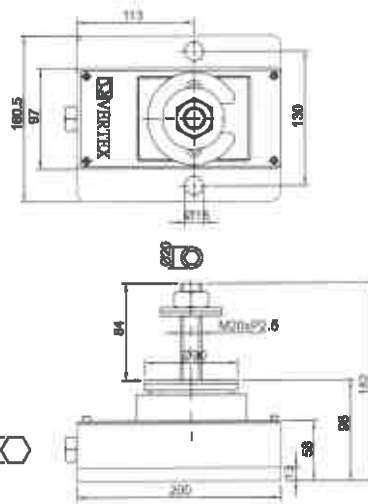
- Place shock absorbers under machine.
- When shock absorbers have full contact with machine base, you can start to adjust the leveling.

ORDER NO.	L x W x H	THREAD	LOAD ABOUT	UNEVEN GROUND ANGLE	ADJUSTMENT HEIGHT / FROM ADJUSTABLE SCREW	WEIGHT KGS	CODE NO.
VSA-150K	200 x 160.5 x 191	M20 x 93L	225KN	$\pm 2^\circ$	7 mm	9.32	7001-180

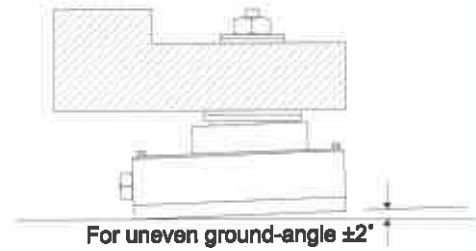
# Shock Absorber

PATENT

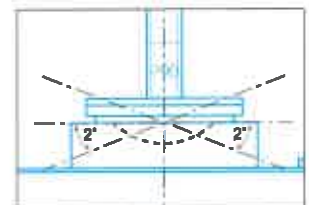
Machine Stand



SPACER FOR MORE ADJUSTABLE



- Leveling
- Reduce Vibration
- Increase Stability
- Frictionless
- Precision & Accurate



### STEP

- Place shock absorbers under machine.
- When shock absorbers have full contact with machine base, you can start to adjust the leveling.

ORDER NO.	L x W x H	THREAD	LOAD ABOUT	UNEVEN GROUND ANGLE	ADJUSTMENT HEIGHT / FROM ADJUSTABLE SCREW	WEIGHT KGS	CODE NO.
VSA-150H	200 x 160.5 x 182	M20 x 84L	225KN	$\pm 2^\circ$	7 mm	9.32	7001-190

# Shock Absorber

PATENT



Machine Stand

NEW

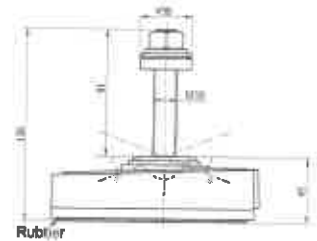
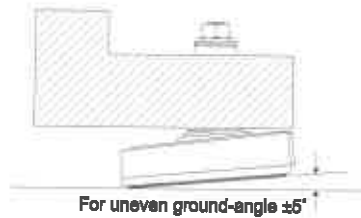


VSA-35K

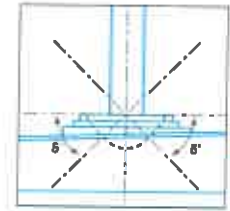
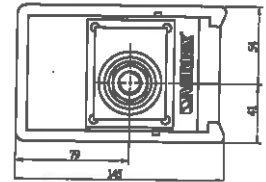
Adjustable screw



VSA-35K-6RU



Rubber



- Leveling
- Reduce Vibration
- Increase Stability
- Frictionless
- Precision & Accurate

### STEP

- Place shock absorbers under machine.
- When shock absorbers have full contact with machine base, you can start to adjust the leveling.

ORDER NO.	L x W x H	ADJ. THREAD LENGTH	LOAD ABOUT	UNEVEN GROUND ANGLE	RUBBER	ADJUSTMENT HEIGHT / FROM ADJUSTABLE SCREW	WEIGHT KGS	CODE NO.
VSA-35K	145 x 95 x 136	M16 x 91L	63KN	$\pm 5^\circ$	2 m/m x 80° shore	7 mm	1.61	7001-160
VSA-35K-6RU	145 x 95 x 140	M16 x 91L	63KN	$\pm 5^\circ$	6 m/m x 90° shore	7 mm	1.61	7001-161

# Shock Absorber

PATENT

Machine Stand

NEW



VSA-35K-PS-BL



VSA-35K-PS



### VSA-35K-PS

- Base by machine cutting only
- No Rubber

### VSA-35K-PS-BL

- Base by machine cutting only
- Longer thread rod durable for different/ adjustable range on the ground & thicker washer.

- Leveling
- Reduce Vibration
- Increase Stability
- Frictionless
- Precision & Accurate

### STEP

- Place shock absorbers under machine.
- When shock absorbers have full contact with machine base, you can start to adjust the leveling.

ORDER NO.	L x W x H	ADJ. THREAD LENGTH	LOAD ABOUT	UNEVEN GROUND ANGLE	RUBBER	ADJUSTMENT HEIGHT / FROM ADJUSTABLE SCREW	WEIGHT KGS	CODE NO.
VSA-35K-PS	145 x 95 x 134	M16 x 91L	63KN	$\pm 5^\circ$		7 mm	1.4	7001-162
VSA-35K-PS-BL	145 x 95 x 144	M16 x 81L	63KN	$\pm 5^\circ$		7 mm	1.4	7001-163

# Shock Absorber

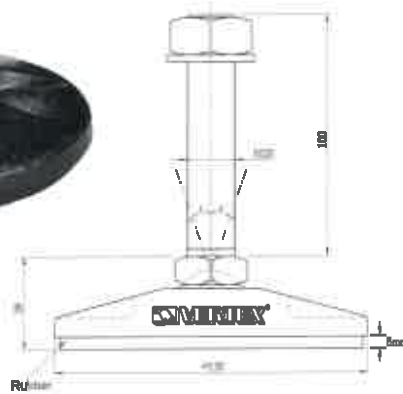
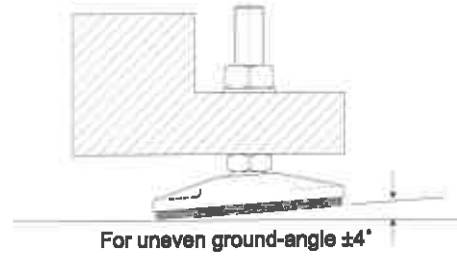
PATENT



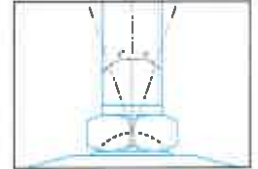
Machine Stand



FROM 20 KN TO 225 KN



- Leveling
- Reduce Vibration
- Increase Stability
- Frictionless
- Precision & Accurate
- Rubber : 80°, 5mm Thickness



## STEP Machine Stand

- Place shock absorbers under machine.
- When shock absorbers have full contact with machine base, you can start to adjust the leveling.

ORDER NO.	L x W x H	THREAD	LOAD ABOUT	UNEVEN GROUND ANGLE	WEIGHT KGS	CODE NO.
VSA-25K	130 x 39 x 139	M20 x 100L	22KN	±4°	1.76	7001-140



*GRINDING MACHINE*  
**ACCESSORIES**

B1~B8	PUNCH FORMER / GRINDER	B51~B54	MAGNETIC LIFTER / DEMAGNETIZER SERIES CHIP COLLECTOR SERIES
B9~B16	TOOL MAKER VISE / SINE VISE / SINE BAR / ANGLE CHUCK	B55~B56	MAGNETIC V-BLOCK SERIES
B17~B21	EDM TOOL MAKER VISE (STAINLESS)	B57~B62	MAGNETIC TOOLS SERIES
B22	EDM WIRE (BRASS & COPPER)	B63~B64	MAGNET SERIES
B23	WIRE DIES GUIDE	B65	MULTI-FUNCTION MIST COOLANT SYSTEM / MIST COOLANT WITH MAGNETIC BASE
B24	ELECTRODE (COPPER & BRASS)	B66~B70	ADJUSTABLE COOLANT HOSES SERIES
B25	ANGLE PALTE	B71~B72	PAPER FILTER SERIES
B26~B27	V-BLOCK / ANGLE PLATE	B73	COLLANT TANK SERIES
B28	HARDENED STEEL SQUARE	B74	OIL SKIMMER SERIES
B29~B30	V-BLOCK	B75~B76	GAUGE BLOCK SERIES
B31~B35	GRINDER WHEEL DRESSER SERIES	B77~B78	SURFACE PLATE / STAND SERIES
B35~36	WHEEL HANGER / GRINDING WHEEL FLANGE / WHEEL BALANCING STAND / DRIVING CARRIER	B79~B82	GRANITE RULERS SERIES / GRANITE V-BLOCK / HORIZONTAL LEVELING INSTRUMENT / PRECISION SQUARE LEVEL / GRANITE SURFACE STAND / CYLINDRICAL SQUARE STEEL / CLEANING PAPER / CONCENTRIC TEST STAND / PIN GAUGE / TESTER ARM BASE
B37~B44	SINE PLATE / MAGNETIC PLATE / STANDARD POLE ELECTRO MAGNETIC CHUCK / CHUCK CONTROLLER / VARIABLE SPEED ROTARY MAGNETIC CHUCK	B83~B84	MEASURING INSTRUMENT SERIES
B45~B46	MAGNETIC TRANSISTING BLOCK / MAGNETIC ADJUSTABLE LINK / MAGNETIC STEEL SEPARATOR / MAGNETIC CHIP COLLECTOR / MAGNETIC SEPARATING BAR UNIT	B85	ANGLE LEVEL SERIES
B47~B48	PERMANENT-ELECTRO MAGNETIC CHUCK	B86	HARDNESS TESTER / STAINLESS STEEL RULER
B49~50	PERMANENT MAGNETIC LIFTER	B87	THREAD SIZE & DEPTH GAUGE / PLUG GAUGE / RING GAUGE



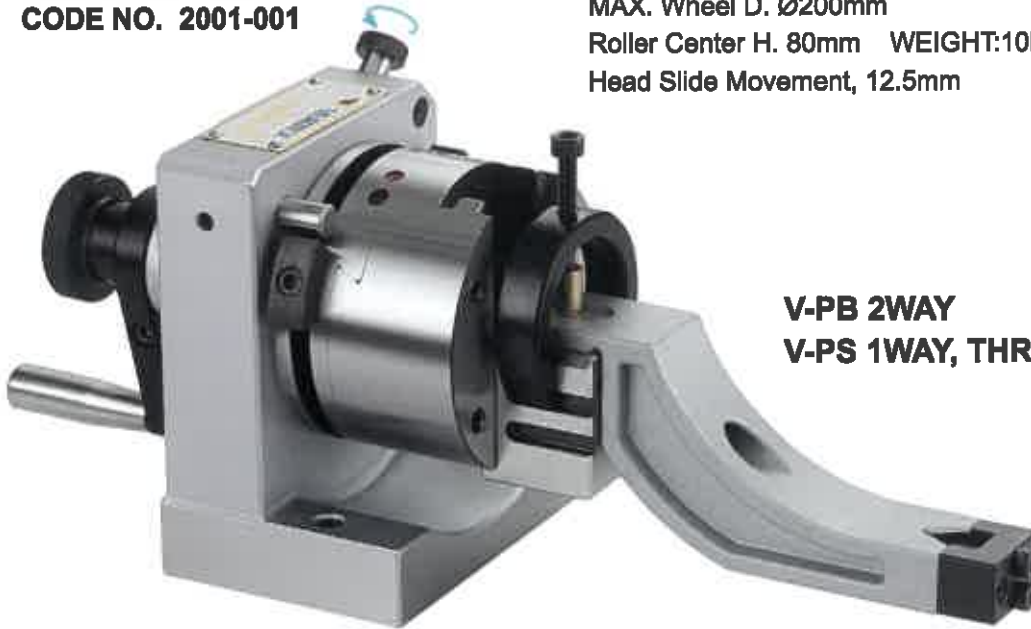


# Punch Former



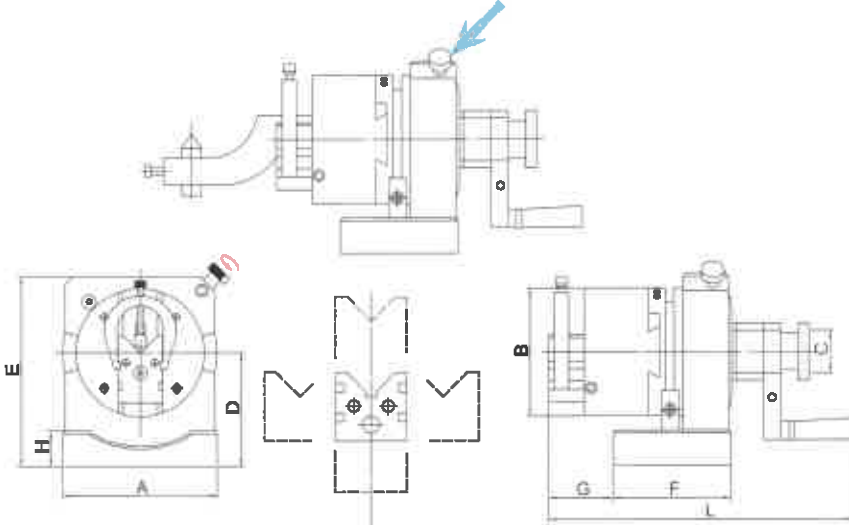
ORDER NO. V-PB  
CODE NO. 2001-001

MAX. Wheel D. Ø200mm  
Roller Center H. 80mm WEIGHT:10KGS  
Head Slide Movement, 12.5mm



**V-PB 2WAY**  
**V-PS 1WAY, THROUGH HOLE**

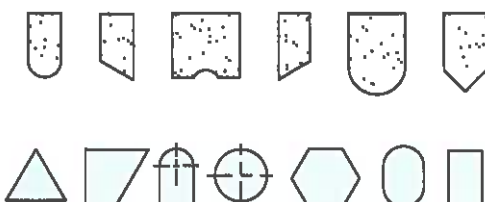
PULL & TURN TO 90° FOR SETTING



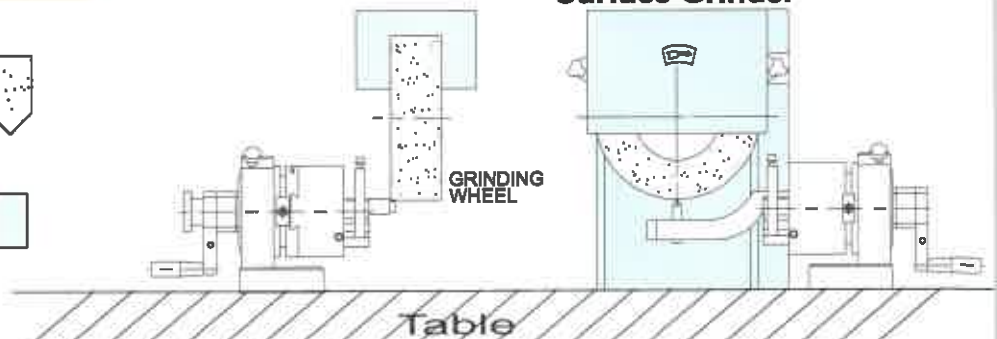
- Punch former is the fixture to grind the point of standard punches and E.D.M. electrodes for precise and fast operation.
- Besides the round, radius and multiangle punches, any special forms can be ground precisely .  
By V-PB, punch/ grinding wheel can be ground either concave or convex radius shape.
- The capacity is from 4mm to 30mm.
- Punch Former is a great dressing instrument. Precisely forming the grinding wheel can be done by assembling an ARM with the main body. Any combination of tangents or radial form of the grinding wheel may be dressed accurately by easy operation.
- Max. diameter of grinding wheel within 200mm can be dressed accurately and safely. The height from base to roller's center is 80mm. Movement of each side can reach 12.5mm while aiming at the center of V block.
- The main body is made of one piece steel construction.

ORDER NO.	A	B	C	D	E	F	G	H	L	WEIGHT (kgs)	CODE NO.
V-PB	108	Ø90	Ø30	80-81	133	83	45	25	215	10	2001-001

## Application grinding wheel style:



## Surface Grinder







# Punch Former



ORDER NO. V-PS  
CODE NO. 2001-010

1 WAY Ø30 THROUGH HOLE



## Specification

D(diameter)of the pressed part of the punch...4-30mm  
L(length)of the pressed part of the punch...above22mm  
Upper and lower movement span of V block.....25mm  
Horizontal movement span of V block(one side)..12.5mm  
(tow side)...25mm

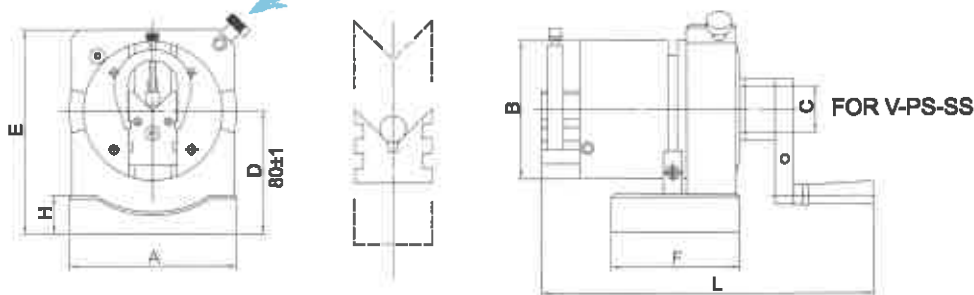
Length of V block .....30mm  
Height of the rotary central axis.....15mm  
Cutting and dividing.....24 equal pieces(15")  
Sand forming of the forming lever  
(concave R).....100mmR  
(convex R).....48mmR  
Diamond sharpening knife : (small diameter)60x50(1/10carat)  
(large diameter)100x50(1/4carat)

V-PS allows go through from the center of grip, to clamp a more longer punch ejector pin, it can go deep into of the grip position directly. To assemble an ARM with the main body, any combination of radial form of the grinding wheel may be dressed accurately by easy operation.

\*Except for the handle and graduation scale all metal is special hard tool steel (SKS-2) heat treated at HRC 63

\*V block can be disassembled for use separately.  
V-PS the center through hole is ø30mm

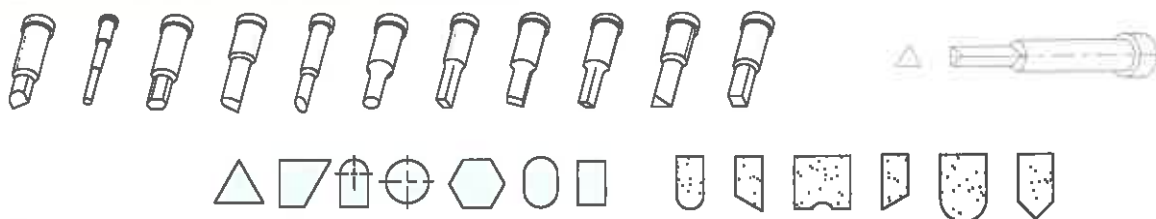
PULL & TURN TO 90° FOR SETTING



ORDER NO.	A	B	C	D	E	F	H	L	WEIGHT (kgs)	CODE NO.
V-PS	108	Ø90	Ø30	80-81	133	83	25	197	8.7	2001-010

Application grinding wheel style:

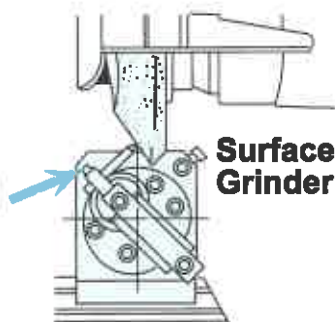
FOR INJECTOR PIN



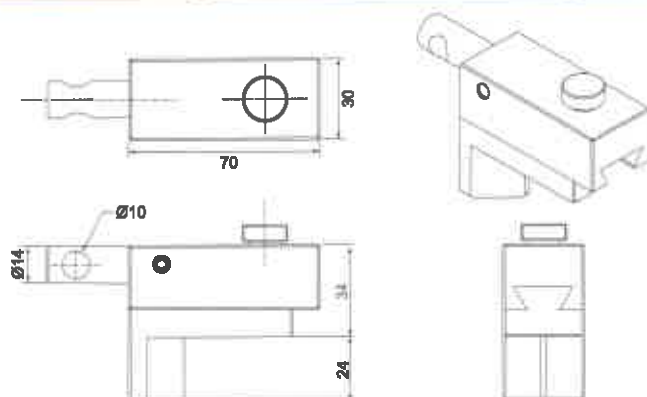
## Special Part Accessory For Angular Dressing

ORDER NO.V-PF  
Without Diamond

CODE NO.2001-020  
WEIGHT: 0.7KG



Surface  
Grinder

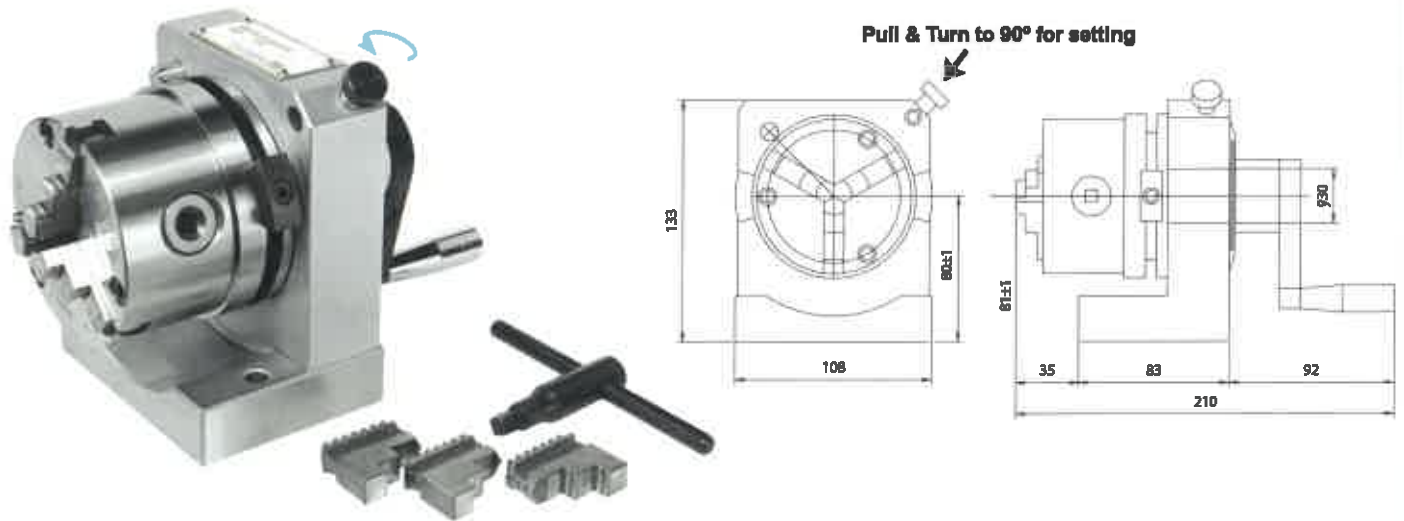


The Wheel angular dressing



# 3-Jaws Punch Former

ORDER NO.V-PS-80J CODE NO:2001-030



- VSC-3, 3 jaw chuck Clamping : Ø2-70 mm
- The center of 3 jaws punch grinder can move gently to fix and to help the concentricity more precision.
- This punch grinder can divide into 24 angles, each angle is 15 degrees at 10 seconds accuracy, the weight is 8.7kgs.
- This style base can be selected to set up with sine plate to make sine angles. The sine plate also can be used with other Machines.
- The base can be adjusted for sine angle.  
(ORDER NO.V-PS-80JS)



# ER Collet Dividing Punch Former

ORDER NO.V-PS-ER32 CODE NO.2001-040

ORDER NO.V-PS-ER40 CODE NO.2001-041



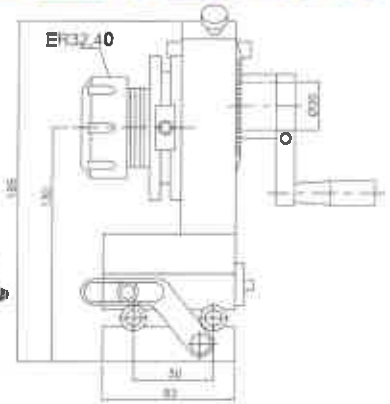
- ER Collet Dividing Punch Grinder put ER32 main body and with collet inner size 6, 8, 10, 12, 16, 20mm, total 6pcs. the weight is 11kgs. ER40 with 7pcs.
- The center of collet can move gently to help the concentricity more precision.
- This punch grinder can divide into 24° angles, each angle is 15 degrees at ±10 seconds accuracy.
- ER16 connection, special accessory (v-601 20-ER16-50L WITH 10PCS COLLET) can use ER16 base can select sine vise base which is good for sine angle use  
(ORDER NO.V-PS-ER32S).

# ER Collet Dividing Punch Grinder With Sine Plate VERTEX®

ORDER NO.V-PS-ER32S CODE NO.2001-060  
WEIGHT:11kgs



Example V-601  
Special Acces.



## Tilting Feature

- ER Collet Dividing Punch Grinder put ER32 main body and with collet inner size 6, 8, 10, 12, 16, 20mm, total 6 pcs. the weight is 11kgs.
- The center of collet can move gently to help the concentricity more precision.
- This punch grinder can divide into 24° angles, each angle is 15 degrees at ±10 seconds accuracy.

Special accessory: ER16 connection, (V-601 20-ER16-50L WITH 10PCS COLLET) can use ER16 base can select sine vise base which is good for sine angle use (ORDER NO.V-PS-ER32S) please choose from page C16

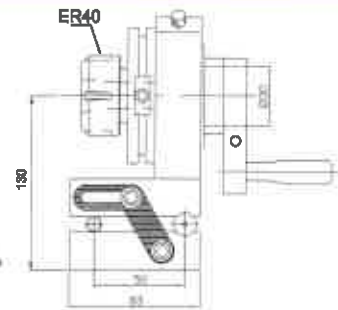
SINE PLATE

# ER Collet Dividing Punch Grinder With Sine Plate

ORDER NO.V-PS-ER40S CODE NO.2001-065  
WEIGHT:10kgs



Example V-601  
Special Acces.



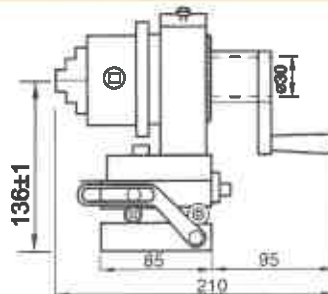
## Tilting Feature

- ER Collet Dividing Punch Grinder put main body and with collet inner. ER40 with 7 pcs, Size 6,8,10,12,16,20,25 mm
- The center of collet can move gently to help the concentricity more precision.
- This punch grinder can divide into 24° angles, each angle is 15 degrees at ±10 seconds accuracy.

Special accessory: ER16 connection, (V-601 20-ER16-50L WITH 10PCS COLLET) can use ER16 base can select sine vise base which is good for sine angle use (ORDER NO.V-PS-ER32S) please choose from page C16

# 3-Jaws Punch Former With Sine Plate

ORDER NO.V-PS-80JS CODE NO.2001-070  
WEIGHT:11.7kgs



## Tilting Feature

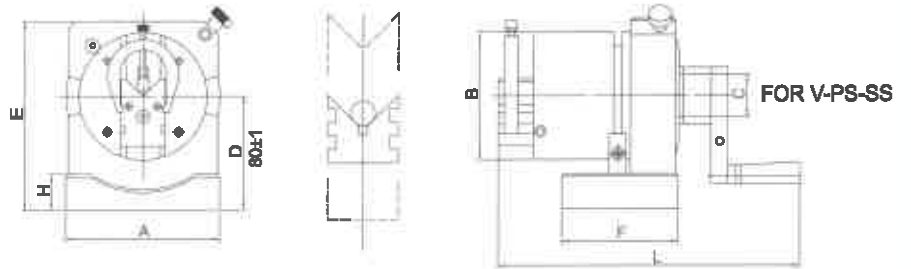
- The center of 3 jaws punch grinder can move gently to fix and to help the concentricity more precision.
- This punch grinder can divide into 24 angles, each angle is 15 degrees at 10 seconds accuracy, the weight is 8.7kgs.
- This style base can be selected to set up with sine plate to make sine angles. The sine plate also can be used with other Machines.
- The base can be adjusted for sine angle. (ORDER NO.V-PS-80JS)

# Punch Former With Sine Plate

**NEW**



V-PB & V-PS Type With Sine Plate  
 V-PB-BS 2 Way  
 V-PS-SS 1 Way Ø30 Through Hole  
 The Feature Is Show On Page B1,B2

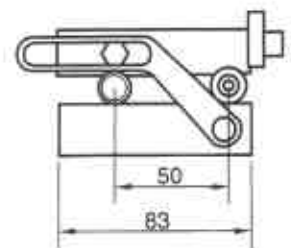
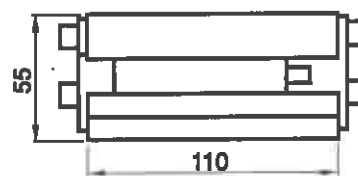
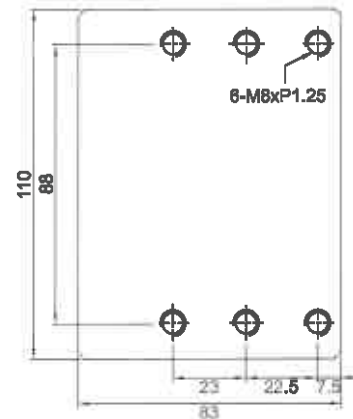


ORDER NO.	A	B	C	D	E	F	G	H	L	TOTAL HEIGHT	SINE BAR CENTER	N.W.	CODE NO.
V-PB-BS	108	Ø90	Ø30	80-81	133	83	45	25	215	136	50	13.6 kgs	2001-080
V-PS-SS	108	Ø90	Ø30	80-81	133	83		25	197	136	50	13.0 kgs	2001-081

## Sine Plate For All Type Punch Former

ORDER NO.V-PS-SP CODE NO.2001-050  
 WEIGHT:3.6kgs

OPTIONAL ACCESSORIES



IT'S FIT WITH VERTEX'S :  
 V-PB, V-PS, V-PS-ER-32,  
 V-PS-ER40, V-PS-80J

**NEW**



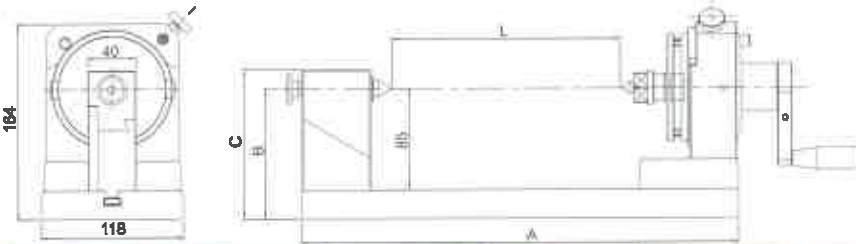
### Feature

- For Checking Roundness & True Running Accuracy
- For Grinding High Accuracy Outer Diameter & Round Bar On Surface Grinder By Accurated Center And Holder.

### SPEC

- Body Center height : 85 mm
- Base to punch center : 109 mm
- Division & Accuracy : 24 & 15'±10"
- Workpiece length : 0~450mm
- Material : sks3, HRC 60~62'
- Roundness : 0.002 mm
- Parallelism : 0.002 / 100mm
- Squareness : 0.002 / 100mm

Unit:mm



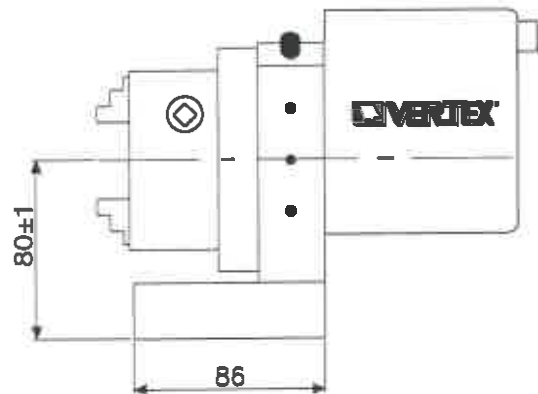
CONCENTRIC TEST STAND

ORDER NO.	A	B	C	L	Divid Slon	Graduation	N.W. (kgs)	CODE NO.
VCI-150P	375	109	125	0-150	24 (15'±10")	360°	20	2021-113
VCI-250P	475	109	125	0-250			23	2021-114
VCI-350P	575	109	125	0-350			26	2021-115

# Fixed Speed Punch Former

**AUTO TYPE**

**NEW**



- The Punch Former with a motor attached can be applied to precisely grind a punch to round in a short time and saves the processing time.
- Chuck Type can clamp workpieces in a wide range.
- 3 inch 3 jaw chuck.

ORDER NO.	O.D.	I.D.	Max. Dia. of Workpiece	Center Helght	Motor Output-W Input-V	Graduation	R.P.M.	N.W. (kgs)	CODE NO.
V-PS-80M	2-70	24-64	Ø50	80-81	15W 110/220V	360°	110	11.72	2021-130

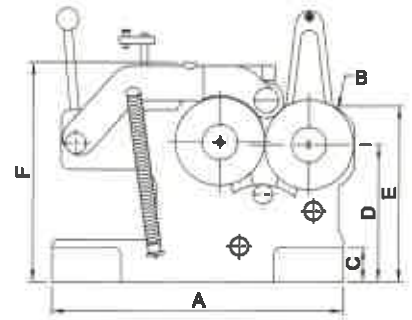
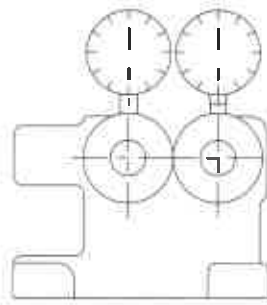
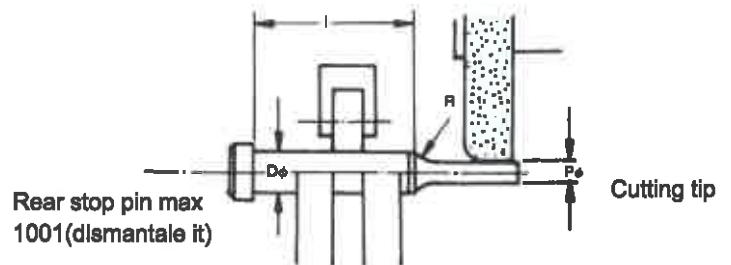


# Punch Grinder



**ORDER NO.V-PGS CODE NO.2002-001**

**MINI-TYPE PUNCH GRINDER Ø1.5-3mm**



This is a mini type punch grinder which can grind fine punch of outside diameter from 1.5mm to 3mm. N.W.4.5kgs  
 Accuracy of point A within 0.005mm and point B Within 0.008mm while turning.

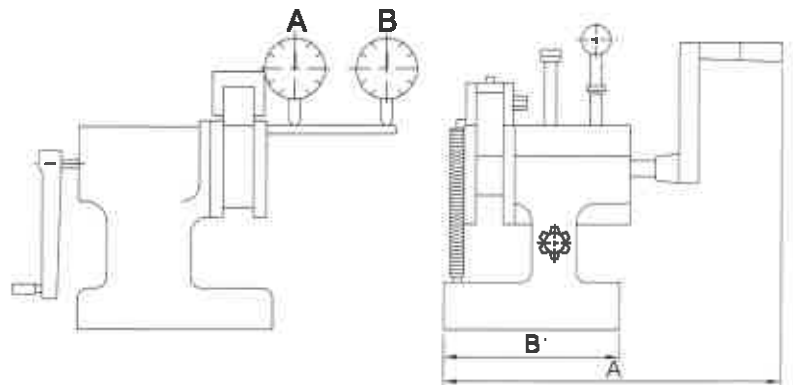
ORDER NO.	A	B	C	D	E	F	WEIGHT (kgs)	CODE NO.
V-PGS	167	Ø51	20	78	100	125	4.5	2002-001



# Punch Grinder

**ORDER NO.V-PG CODE NO.2002-010**

**STANDARD-TYPE Ø1.5-Ø25 WEIGHT: 6.6kgs**



Punch grinder is a tool which can be put on the surface plate of grinding machine for round punches(1.5mm-25mm). It can be ground by putting among three rollers of punch grinder. without checking the center.  
 Accuracy of roller within 0.005mm while turning right or left. It can allow length 5-35mm  
 Accuracy of point A within 0.005mm and point B Within 0.008mm while turning.

ORDER NO.	A	B	WEIGHT (kgs)	CODE NO.
V-PG	172	90	6.6	2002-010

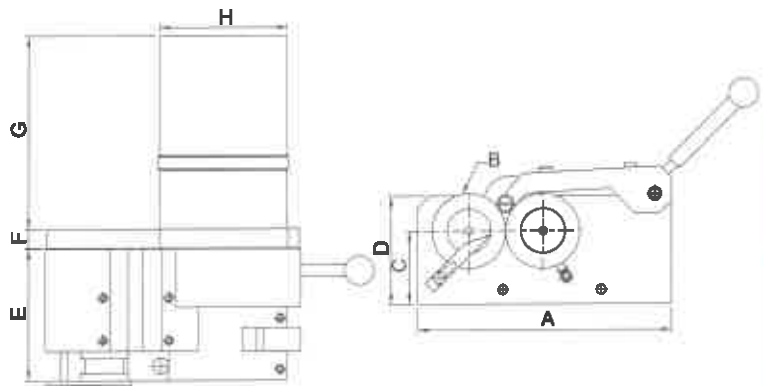
# Punch Grinder



**ORDER NO.V-PGM CODE NO.2002-020**

WITH MOTOR TYPE Ø1.5-Ø25

WEIGHT: 11.8kgs



PUNCH GRINDER

## Features

- 1.High accuracy cylindrical grinding work is possible, just putting this economical unit on surface grinder.
- 2.No center alignment necessary. just put work piece on rollers.
- 3.Portable with single hand, thus easily set up.
- 4.With rollers motor -driven, attention can be concentrated on table/wheel feeds.
- 5.Work can be formed in radius taper as well
- 6.Double roller unit available for long pin or punch grinding.

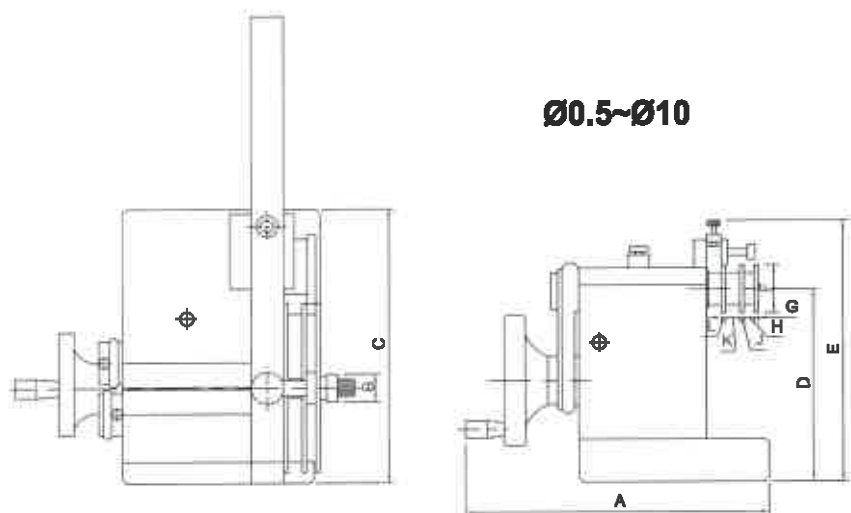
## FEATURES

Mounting surface(RLxFB).....175X218X90mm  
 50Hz/220v.....108rpm  
 Roller speed 60Hz/110v.....129rpm  
 Accuracy(Roundness and concentricity).....25.4mm  
 Roller driving motor 110v, Single phase, 25W  
 (Specifications are subject to change without notice.)

ORDER NO.	A	B	C	D	E	F	G	H	WEIGHT (kgs)	CODE NO.
V-PGM	174	Ø51	50	74	90	13	132	87	11.8	2002-020

# Punch Grinder

**ORDER NO:V-PGA CODE NO.2002-030 WEIGHT:3.1kgs**



1. The small punch grinder can process from dia Ø0.5mm to 6mm. Smallest workpiece length : 10mm  
 This punch grinder can work with surface grinding machine and to grinding any sizes.
2. Easy operation and high precision make it to be the best grindig tool for small workpiece.

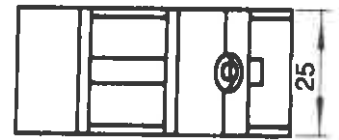
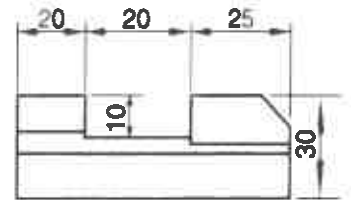
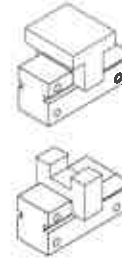
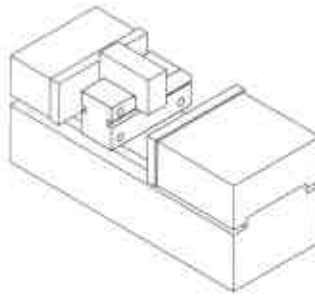
ORDER NO.	A	B	C	D	E	F	G	H	J	K	L	WEIGHT (kgs)	CODE NO.
V-PGA	142	Ø13	128	90	122	22.4	2	4.5	2	6.5	2	3.1	2002-030



# Mini Tool Maker Vice

ORDER NO.VMV-10 CODE NO.2003-001

WEIGHT:0.3kg



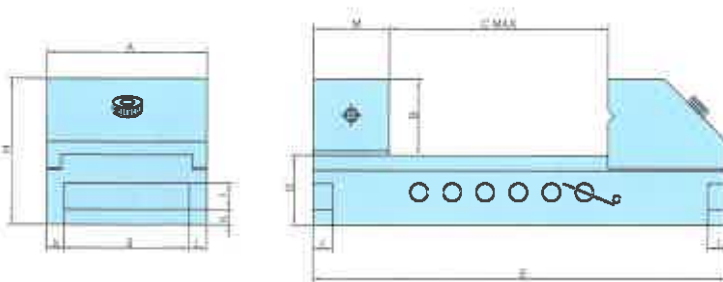
Tool makers vise of mini type which can be put in a bigger vise to process the small and precise workpiece. Also it can be used in an E.D.M. machine and grinding machine.

Squareness and parallelism : within  $\pm 0.005$  mm / 100 mm.

ORDER NO.	Weight (kgs)	CODE NO.
VMV-10	0.3	2003-001



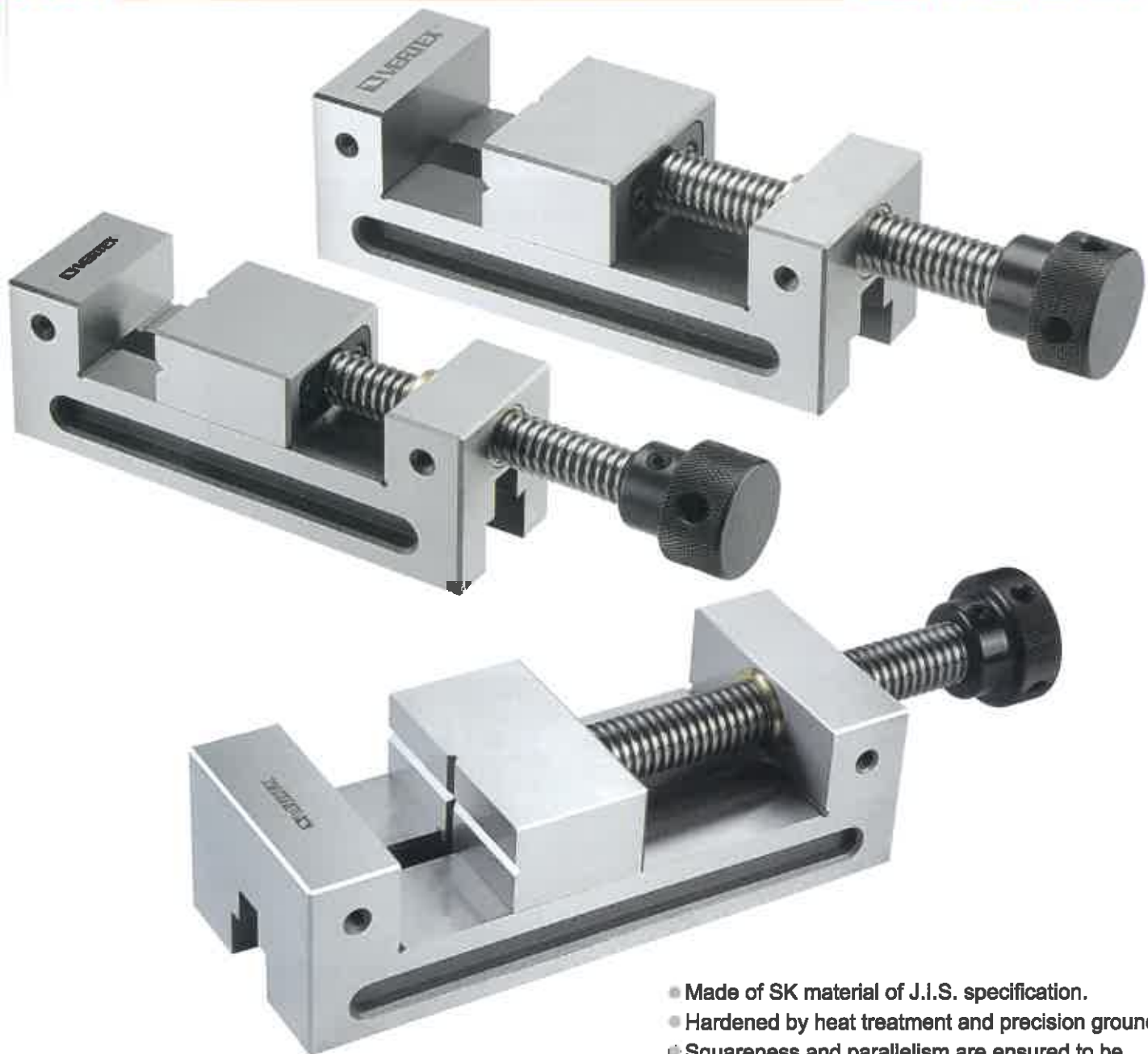
# Tool Maker Vice



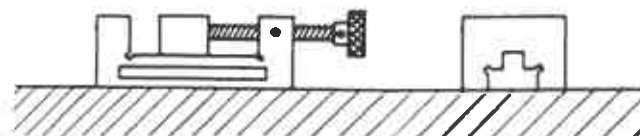
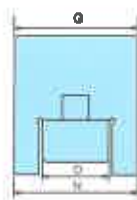
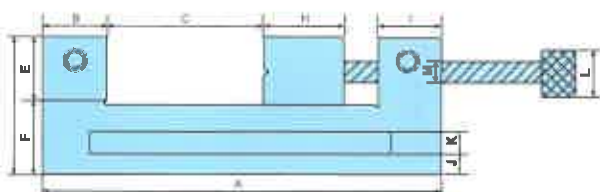
- Made of SK material of J.I.S. specification.
- Hardened by heat treatment and precision ground.
- Squareness and parallelism are ensured to be within  $\pm 0.005$  mm / 100 mm.
- It can be used and kept its high precision while standing on its base, sides or extremity, for inspection use in stead of squares due to its extremely accuracy.
- Hardness: HRC 54 $\pm$ 2°

ORDER NO.	MATERIAL	A	B	C max	D	E	l	f	g	h	j	k	H	M	O	N.W (KGS)	CODE NO
VMV-15	SK2	36	20	40	20	100	5	8	24	5	6	6	40	20	6	0.9	2003-010
VMV-20	SK2	47	29	70	28	150	5	10	37	6	5	5	57	30	8	2	2003-011
VMV-25	SK2	62	34	84	28	170	7	10	52	6	5	5	62	30	8	3.3	2003-012
VMV-30	SK2	72	34	98	32	190	9	12	56	7	8	8	66	35	8	4.5	2003-013
VMV-35	SK2	88	45	125	40	230	12	12	64	11	12	12	85	40	10	7	2003-014
VMV-40	SK2	98	45	130	40	235	12	12	64	11	17	17	85	40	10	8.9	2003-015
VMV-50	SK2	125	50	150	50	287	12	13	73	14	26	26	100	50	14	15.5	2003-016
VMV-60	S50C	150	50	200	50	330	12	14	76	14	37	37	100	50	14	21.4	2003-017





- Made of SK material of J.I.S. specification.
- Hardened by heat treatment and precision ground.
- Squareness and parallelism are ensured to be within  $\pm 0.005$  mm / 100 mm.
- It can be used and kept its high precision while standing on its base, sides or extremity, for inspection use in stead of squares due to its extremely accuracy.
- Hardness: HRC  $54^{\circ} \pm 2^{\circ}$



**TOLERANCE**  $\pm 0.005$ mm / 100mm

Unit:mm

ORDER NO.	MATERIAL	A LENGTH	B	JAW C OPENING	D	E	F	G	H	I	J	K	L	M	N	O	HEIGHT (mm)	HARDEN	WEIGHT (KGS)	CODE NO.
VDV-20	SK2	155	25	55	54	25	29	48	45	25	9.50	10.15	34.70	15.80	48	18.7	54	HRC54'±2'	2.5	2003-020
VDV-25	SK2	176	25	75	60	30	30	63	44.80	25	10	10.90	39.60	18.95	63.10	26	60	HRC54'±2'	3.9	2003-021
VDV-30	SK2	181	30	71	70	30	40	73	51.85	25	14	12.35	50.35	18.95	73	26	70	HRC54'±2'	5.7	2003-022
VDV-35	SK2	250	35	121	73	38	35	88	55.40	35.55	10.80	11.80	54.85	25.35	88.45	30.20	73	HRC54'±2'	9.2	2003-023
VDV-40	SK2	250	35	121	73	38	35	98	55	34.75	11.80	11.55	54.65	25.35	98.60	29.60	73	HRC54'±2'	10.1	2003-024



**Accuracy :**

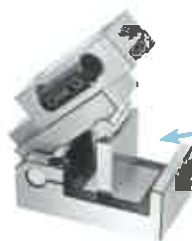
**Material Hardened:** SKS HRC 60° Sub-zero processing.

**Parallelism:** Within 0.003 / 100 mm

**Squareness:** Within 0.005 / 100 mm

**Angle tol:** Within 15 sec Within 20 sec

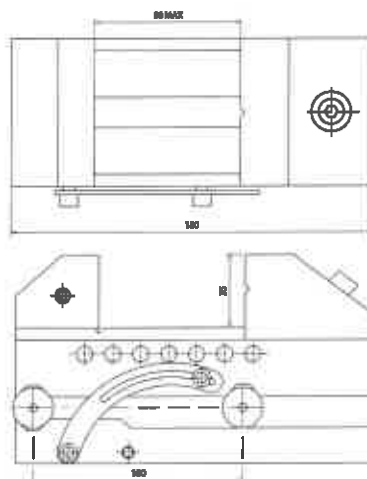
\*Sine conversion table attached page B16



Height  
Gage Block  
PAGE B76

• Example

- Compound angles easily and quickly set.
- Adjustments up to 46 degrees.



**SPECIFICATION**

Unit:mm

ORDER NO.	MATERIAL	LENGTH	WIDTH	JAW OPENING	JAW HEIGHT	HEIGHT (mm)	ANGLE	HARDEN	N.W (KGS)	CODE. NO.
SVB-20	SK2	155	48	80	30	93.5	0°-46°	HRC56°-58°	4.4	2003-030
SVB-25	SK2	175	63	90	35	102.5	0°-46°	HRC56°-58°	6	2003-031
SVB-30	SK2	180	73	90	35	103.8	0°-46°	HRC56°-58°	6.9	2003-032

# Sine Vise



**Accuracy :**

**Material Hardened:** SKS HRC 60° Sub-zero processing.

**Parallelism:** Within 0.003 / 100 mm

**Squareness:** Within 0.005 / 100 mm

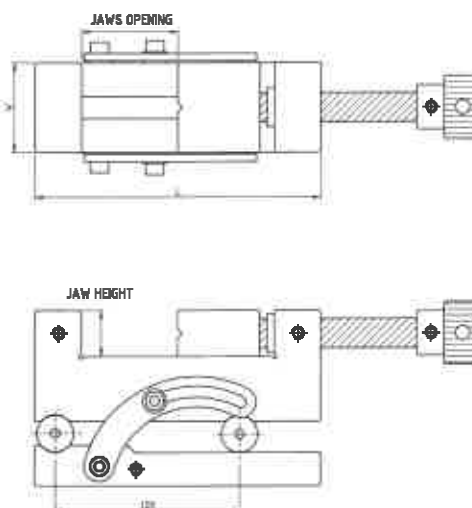
\*Sine conversion table attached page B16



Height  
Gage Block  
PAGE B76

• Example

- Compound angles easily and quickly set.
- Adjustments up to 46 degrees.



**SPECIFICATION**

Unit:mm

ORDER NO.	MATERIAL	LENGTH	WIDTH	JAW OPENING	JAW HEIGHT	HEIGHT (mm)	ANGLE	HARDEN	N.W (KGS)	CODE. NO.
SVD-200	SK2	155	48	60	25	94	0°-46°	HRC54°±2	4.6	2003-040
SVD-250	SK2	176	63	68	30	97.5	0°-46°	HRC54°±2	6.4	2003-041
SVD-300	SK2	180	73	72	30	103	0°-46°	HRC54°±2	8.4	2003-042

**Good Design With High Precision And Rigid**

**Accuracy :**

**Material Hardened:** SKS HRC 60° Sub-zero processing.

**Parallellism:** Within 0.003 / 100 mm

**Squareness:** Within 0.005 / 100 mm

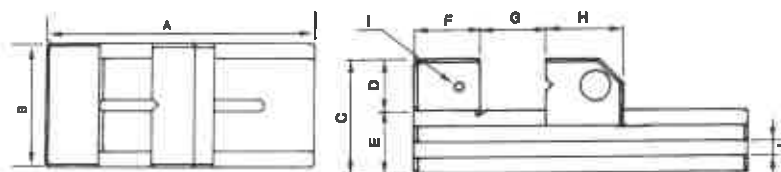
**Angle tol:** Within 15 sec Within 20 sec

**Material:** SKS2

\*Sine conversion table attached page B16



**Fixed Down Jaw Designed**



TOOL MAKER VISE

ORDER NO.	A	B	C	D	E	F	G	H	I	J	N.W (kgs)	CODE NO.
VC20	150	48	53	25	28	25	84	40	M6	8	1.6	2003-070
VC25	176	63	59	30	29	30	95	48	M6	8	2.8	2003-071
VC30	190	73	68	35	33	35	100	53	M6	9	4	2003-072
VC40	245	98	90	45	45	45	135	65	M8	12	9.02	2003-073



**Accuracy :**

**Material Hardened:** Sub-zero processing.

**Parallellism:** Within 0.003 / 100 mm

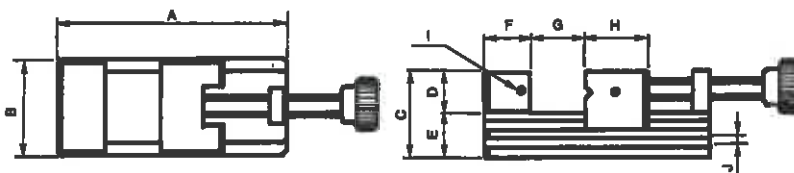
**Squareness:** Within 0.005 / 100 mm

**Angle tol:** Within 15 sec Within 20 sec

**Material:** SKS2

**Hardness:** HRC 54'±2'

\*Sine conversion table attached page B16



ORDER NO.	A	B	C	D	E	F	G	H	I	J	N.W (kgs)	CODE NO.
V-VE20	90	60	50	23	27	25	32	30	M5	6x6	1.62	2003-080
V-VE25	160	70	62	28	34	33	80	45	M6	7.5x7	4.02	2003-081
V-VE30	175	73	65	30	35	35	93	45	M6	7.5x7	4.7	2003-082



# Precision Universal Angle Vise



PAT.

NEW

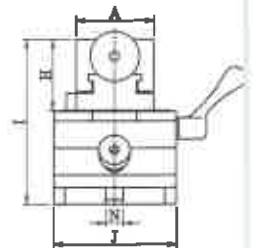
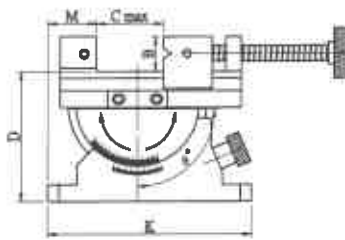
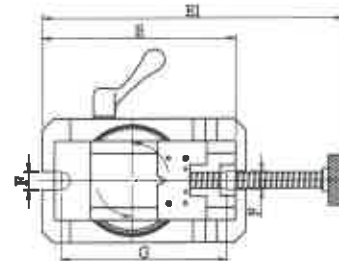


VUA-3



VUA-4

- Precision graduation for accurate reading.
- Its swivelling and tilting features make this unit well suited for straight or inclined surface, angular drilling machining on various machine tools as precision grinding machine, boring and milling machine, electrical discharge machine etc.
- Tolerance  $\pm 0.01\text{mm}/100\text{mm}$ .
- Vise bottom to base parallelism  $\pm 0.02\text{ mm}$
- Squareness  $\pm 0.02$
- 360° Horizontal swivel
- 45° Vertical tilting
- Precision ground
- Material: SK-2
- Hardness: HRC  $52^{\circ}\pm 2^{\circ}$
- Load capacity : 25kgs



Unit:mm

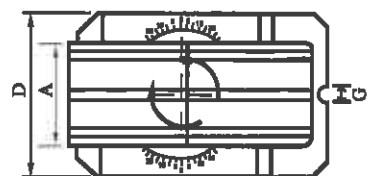
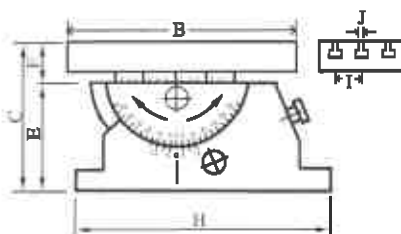
ORDER NO.	A	B	C MAX	D	E	E1	F	G	H	I	J	K	M	N	$\theta$	G.W(KGS)	CODE.NO.
VUA-3	70	31	80	115	173	291	16	156	63	146	110	182	43	16	-20°~50°	12	2003-050
VUA-4	88	35	110	132	193	346	16	156	83	167	110	182	29	16	-20°~50°	15	2003-051



# Precision Universal Angle Plate



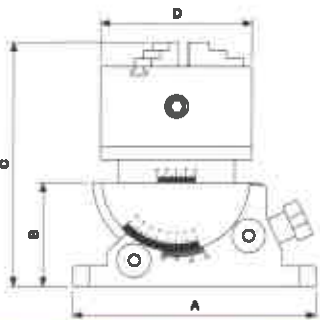
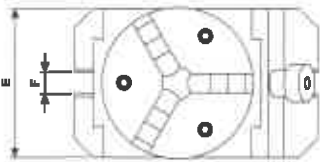
- Precision grounded.
- Rigid design.
- The table can swivel 360°, and tilts 45°
- It can put tool maker vise VMV-type VDV-type or 3 jaw chuck for clamping
- The graduation for accurate reading
- Vise bottom to base parallelism  $\pm 0.02\text{ mm}$
- Squareness  $\pm 0.02$
- Material: SK-2
- Hardness: HRC  $52^{\circ}\pm 2^{\circ}$
- Load capacity : 25kgs



ORDER NO.	A	B	C	D	E	F	G	H	I	J	G.W (kgs)	CODE NO.
VUA-408	100	200	133	110	83	50	16	182	30	12	15	2003-055
VUA-510	126	250	133	110	83	50	16	182	40	12	18.1	2003-056

# Precision Universal Angle Chuck

**NEW PAT.** **With VSC-4 Chuck**



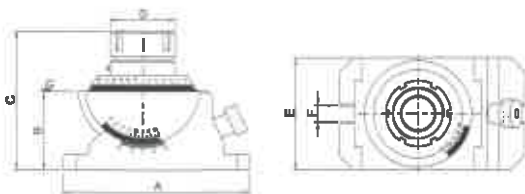
- Precision graduation for accurate reading.
- Its swivelling and tilting features with clamping make this unit well suited for straight or inclined surface, angular drilling machining on various machine tools.
- With VSC-4 3-Jaw chuck.
- O.D. clamping  $\varnothing 3-90$  mm,
- I.D. clamping  $\varnothing 32-84$  mm.
- Tolerance  $\pm 0.01\text{mm}/100\text{mm}$ .
- 2 axis with angle scale
- For angle setting
- Chuck indexing / Rotating setting
- Tilting Features same as VUA series, Page B13.
- Load capacity : 25kgs

UNIVERSAL ANGLE CHUCK

ORDER NO.	A	B	C	D	E	F	G.W (kgs)	CODE NO.
VUA-100J	180	77	181	112	110	16	14	2003-060

# Precision Universal Angle Collet Chuck

**NEW** Capacity  $\varnothing 3-\varnothing 30$



- Precision graduation for accurate reading.
- Its swivelling and tilting features with clamping make this unit for straight or inclined surface, angular drilling machining on various machine tools.
- Tolerance  $\pm 0.01$  mm / 100 mm.
- 360° horizontal swivel, 45° vertical tilting.
- Suit for multi - angle cutting.
- Simple way for mass production.
- Hardness : HRC 52°  $\pm 2$
- Load capacity : 25kgs

**Standard Accessories:** With 15pcs ER-40 Collet (4, 5, 6, 8, 10, 12, 13, 15, 16, 18, 20, 21, 22, 25, 26)

ORDER NO.	A	B	C	D	E	F	G.W (kgs)	CODE NO.
VUA-ER40	180	77	136	63	110	16	17.48	2003-065

Optional collet ER-40- $\varnothing 27, 28, 29, 30$  mm



# Free Angle Table



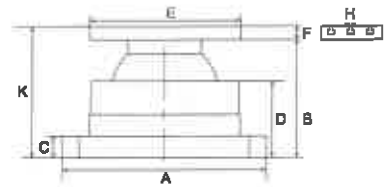
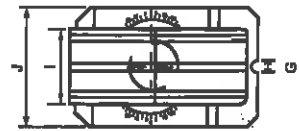
**NEW**



FOR CLAMPING

### Features:

- Quick setting
- Operating is very quick and easy, can increase so much working efficiency than you can image.
- 360° Rotation, Tilting 30°
- For non-normal angle setting.
- Its swivelling and tilting features with chuck clamping make this unit for round & square, angular drilling machining on various machine tools or for bench work table.
- Plate is precisely ground.
- For clamping tool vise & many other way of clamping.

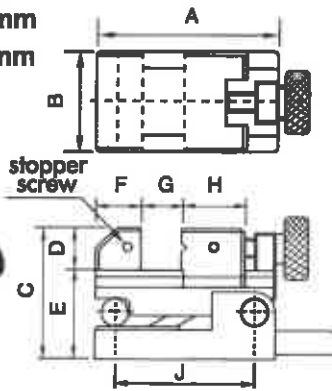


ORDER NO.	A	B	C	D	E	F	G	H	Table size		K	G.W (kgs)	CODE NO.
									I	J			
VAV-1020	140	120	20	72	200	34	17	12	100	140	153	15	2003-120
VAV-1325	140	120	20	72	250	34	17	12	126	140	153	17	2003-121



# Precision Sine Vise

HARDNESS HRC 60°, SKS3  
 PARALLELISM 0.003 / 100 mm  
 SQUARENESS 0.005 / 100 mm



THE CLAMP HANDLE IS PLACED UNDER WORK PIECE.



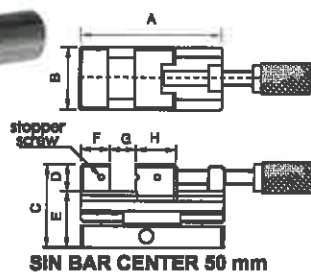
Height  
Gage Block  
PAGE B76  
• Example

ORDER NO.	CODE NO.
SVC-100	2003-090

	Unit:mm
A	130
B	70
C	93
D	30
E	63
F	33
G	45
H	45
I	M5
J	100
Max.angle	46°
Weight(kgs)	5.5



# Precision Sine Vise



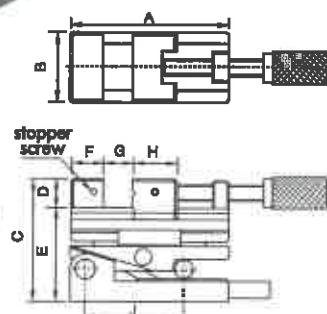
HARDNESS HRC 60°, SKS3  
 PARALLELISM 0.003 / 100 mm  
 SQUARENESS 0.005 / 100 mm

ORDER NO.	CODE NO.
SVL-50	2003-100

	Unit:mm
A	160
B	73
C	93
D	30
E	63
F	33
G	80
H	45
I	M5
Max.angle	46°
Weight(kgs)	6.6



# Two Way Vise



HARDNESS HRC 60°, SKS3  
 PARALLELISM 0.003 / 100 mm  
 SQUARENESS 0.005 / 100 mm

ORDER NO.	CODE NO.
SVS-100	2003-110

	2 WAYS Unit:mm
A	160
B	73
C	124
D	30
E	94
F	33
G	80
H	45
I	M5
J	100
Max.angle	46°
Weight(kgs)	8.3

# Sine Bar With Magnetic



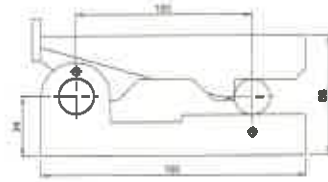
There is magnet in the bottom which can be run on any kind of machine for testing angle use.

The thread can for stopper screw



Height Gage Block PAGE B76

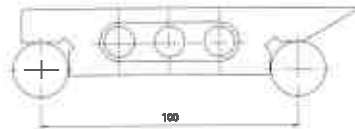
Example



Unit:mm

ORDER NO.	SQUARNESS	ACCURACY	PARALLELISM	HARDNESS	MATERIAL	N.W. (kgs)	CODE NO.
V-S50M	0.005mm /100mm	±0.002	0.002mm/100mm	HRC50°	SK-3	0.34	2004-001
V-S100M	0.005mm /100mm	±0.002	0.002mm/100mm	HRC50°	SK-3	2.06	2004-002

# Sine Bar

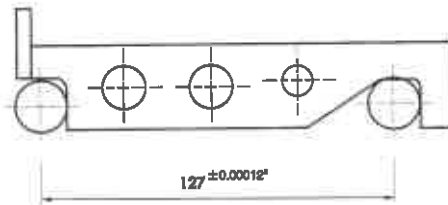


Unit:mm

ORDER NO.	LENGTH	WIDTH	HEIGHT	CENTER DISTANCE	PARALLEL	HARDEN	BLOCKS DIA.	MATERIAL	N.W (kgm)	CODE NO.
VS-100	127	28	35	0.005	0.005/100mm	HRC50°	Ø20mm	SK-3	0.76	2004-010

# Sine Bar-Inch

Change of the sine angle must be count on sine bar inspection, the bar's tolerance within 0.005 mm / 100 mm



Unit:Inch

ORDER NO.	LENGTH	WIDTH	HEIGHT	CENTER DISTANCE	PARALLEL	HARDEN	BLOCKS DIA.	MATERIAL	N.W (kgm)	CODE NO.
V-825	6-3/8"	1"	1-1/4"	127	0.00012"	HRC52°	3/4"	SK2	1	2004-020
V-850	6-3/8"	2"	1-1/4"	127	0.00012"	HRC52°	3/4"	SK2	1.8	2004-021

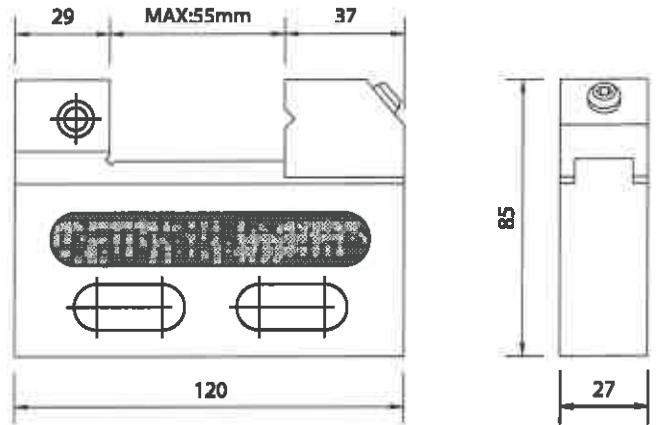
## HOW TO CHOOSE THE BLOCK FOR SINE BAR

DISTANCE GALUGE BLOCK CAN GET HEIGHT DEGREE	SIN BAR CENTER	SIN BAR CENTER
	-50-	-100-
2°	1.7405	3.4899
3°	2.6168	5.2336
4°	3.4878	6.9756
5°	4.3578	8.7155
6°	5.2264	10.4528
7°	6.0935	12.1869
8°	6.9587	13.9173
9°	7.8217	15.6434
10°	8.6824	17.3648
11°	9.5404	19.0809
12°	10.3956	20.7911
13°	11.2476	22.4951
14°	12.0961	24.1921
15°	12.9401	25.8819
16°	13.7819	27.5637
17°	14.6186	29.2371
18°	15.4058	30.9017
19°	16.2784	32.5586
20°	17.1010	34.2020
21°	17.9184	35.8367
22°	18.7303	37.4606
23°	19.5366	39.0713
24°	20.3368	40.6736
25°	21.1309	42.2618
26°	21.9186	43.8371
27°	22.6995	45.3990
28°	23.4736	46.9471
29°	24.2405	48.4809
30°	25.0000	50.0000
31°	25.7519	51.5038
32°	26.4960	52.9919
33°	27.2320	54.4639
34°	27.9596	55.9192
35°	28.6788	57.3576
36°	29.3893	58.7785
37°	30.0908	60.1815
38°	30.7831	61.5661
39°	31.4660	62.9320
40°	32.1394	64.2787
41°	32.8030	65.6059
42°	33.4565	66.9130
43°	34.0999	68.1998
44°	34.7329	69.4658
45°	35.3553	70.7106

SINE BAR



# EDM Tool Marker Vise (STAINLESS)



Material: SUS 440

Hardness: HRC 58~60°

Squareness: Within 0.005 mm

This vise is for wire cutter use. Each of the parts was manufactured by stainless steel and with the appliance of high erosion resisting.

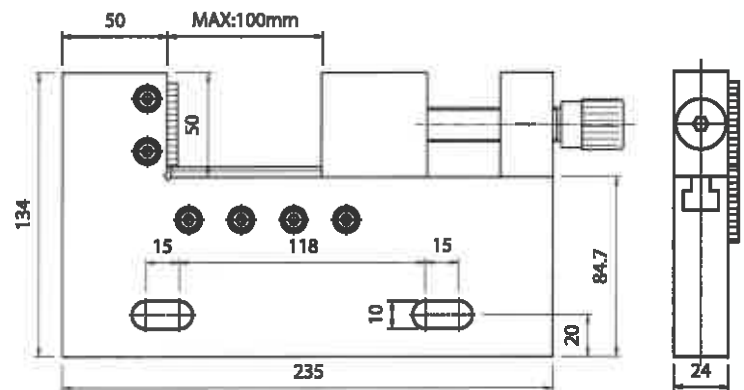
※ Not 100% magnetic proof

<b>PARALLELISM</b>	±0.002 mm / 100 mm	
<b>SQUARENESS</b>	±0.002 mm / 100 mm	
<b>ORDER NO.</b>	<b>WEIGHT (kgs)</b>	<b>CODE NO.</b>
VSTV-50W	1.4	2008-040

<b>MAX.OPENING</b>	55 mm
<b>THICKNESS</b>	27 mm
<b>JAW DEEP</b>	25 mm
<b>N.W</b>	1.01 kgs
<b>MATERIAL</b>	SUS 440
<b>HARDNESS</b>	HRC 54°±2°



# EDM Tool Maker Vise (STAINLESS)



◆ Do not over lock.

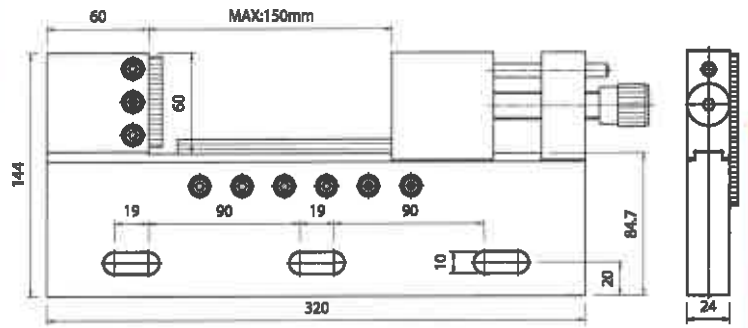
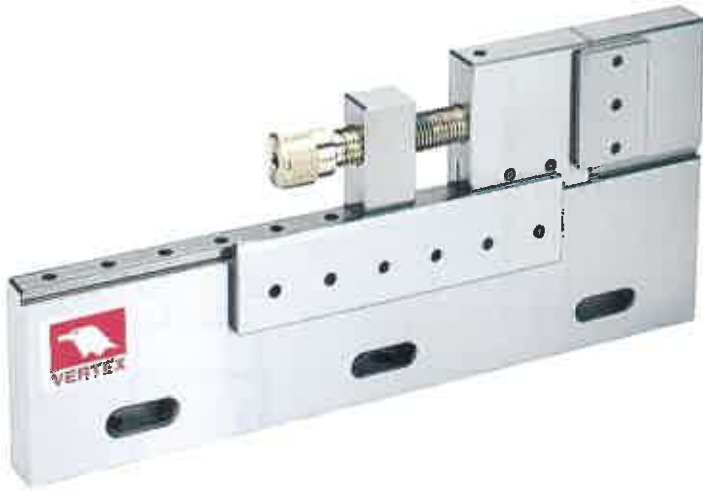
※ Not 100% magnetic proof

<b>PARALLELISM</b>	±0.00 2mm / 100 mm	
<b>SQUARENESS</b>	±0.002 mm / 100 mm	
<b>ORDER NO.</b>	<b>WEIGHT (kgs)</b>	<b>CODE NO.</b>
VSTV-100W	4.88	2008-050

<b>MAX.OPENING</b>	100 mm
<b>THICKNESS</b>	24 mm
<b>JAW DEEP</b>	50 mm
<b>N.W</b>	4.88 kgs
<b>MATERIAL</b>	SUS420
<b>HARDNESS</b>	HRC 54°±2°



# EDM Tool Marker Vise (STAINLESS) VERTEX®



EDM TOOL MARKER VISE

- Do not over lock.
- ※ Not 100% magnetic proof

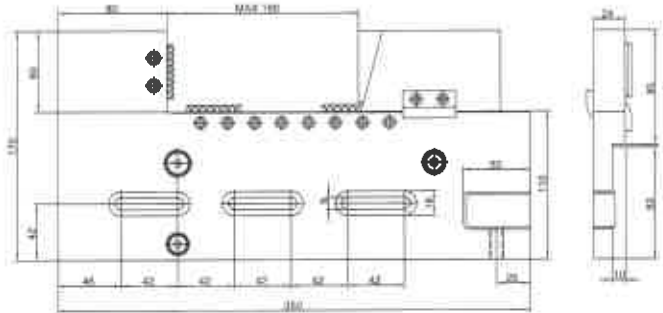
<b>PARALLELISM</b>	±0.002 mm / 100 mm	
<b>SQUARENESS</b>	±0.002 mm / 100 mm	
<b>ORDER NO.</b>	<b>WEIGHT (kgs)</b>	<b>CODE NO.</b>
VSTV-150W	6.75	2008-060

<b>MAX.OPENING</b>	150 mm
<b>THICKNESS</b>	24 mm
<b>JAW DEEP</b>	60 mm
<b>N.W</b>	6.75 kgs
<b>MATERIAL</b>	SUS420
<b>HARDNESS</b>	HRC 54°±2°

# EDM Tool Maker Vise (STAINLESS)



- Over lock may break vise.
- ※ Not 100% magnetic proof



- Parallelism: 0.003 / 100 mm, Squareness: 0.005 / 100 mm.
- Hardness: up to HRC 45°~55°.
- The vise can be adjusted up and down, left and right, forth and back to set parallelism.
- High water pressure resistance.



<b>PARALLELISM</b>	±0.003 mm / 100 mm	
<b>SQUARENESS</b>	±0.005 mm / 100 mm	
<b>ORDER NO.</b>	<b>WEIGHT (kgs)</b>	<b>CODE NO.</b>
VSTV-320W	8	2008-090

<b>MAX.OPENING</b>	160 mm
<b>THICKNESS</b>	24 mm
<b>JAW DEEP</b>	60 mm
<b>N.W</b>	8 kgs
<b>MATERIAL</b>	STAVAX
<b>HARDNESS</b>	HRC 52°±2°



# Electro Vise (STAINLESS)

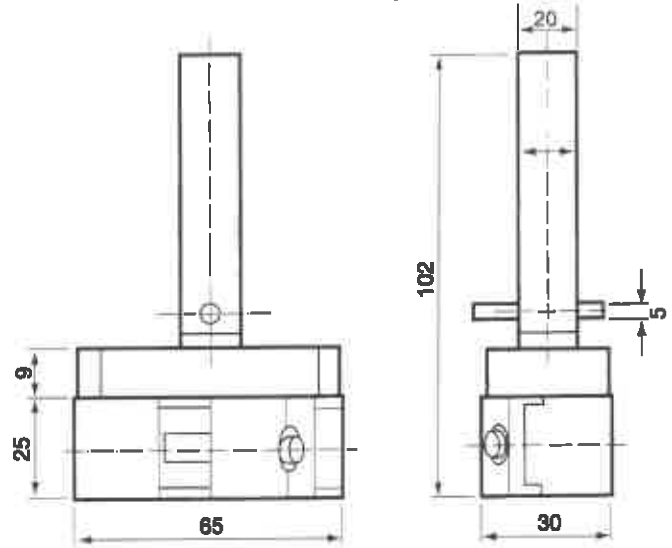
MINI TYPE  
JAW WIDTH 25mm

JAW OPENING 20mm



**VERTEX**

(STAINLESS)FOR EDM



※ Not 100% magnetic proof

Material	SUS440
Parallelism	within 0.003 mm / 100 mm
Squareness	within 0.005 mm / 100 mm
Harden treatment	up to HRC 58°

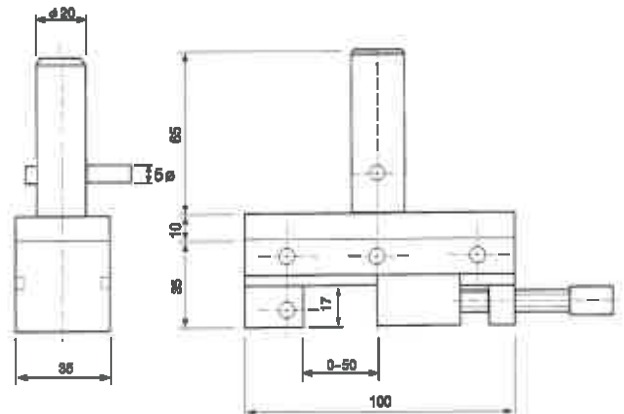
ORDER NO.	MATERIAL	LENGHT	WIDTH	JAW OPENING	JAW HEIGHT	HARDEN	WEIGHT (kgs)	CODE NO.
VEH-20MS	SUS440	65	25	20	10	HRC 58°	0.7	2008-020



# Electro Vise (STAINLESS)

JAW WIDTH 25mm  
JAW OPENING 50mm

(STAINLESS)FOR EDM

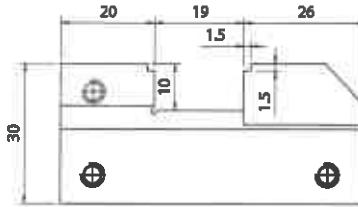
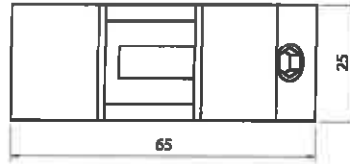


※ Not 100% magnetic proof

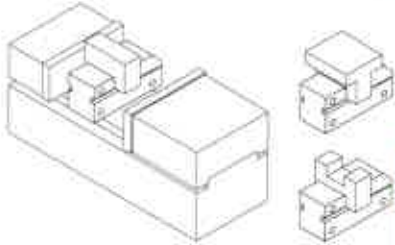
Material	SUS440
Parallelism	within 0.003 mm / 100 mm
Squareness	within 0.005 mm / 100 mm
Harden treatment	up to HRC 58°

ORDER NO.	MATERIAL	LENGHT	WIDTH	JAW OPENING	JAW HEIGHT	HARDEN	WEIGHT (kgs)	CODE NO.
VEH-20DS	SUS440	100	35	50	17	HRC 58°	1.3	2008-030

# Tool Maker Vise (STAINLESS) VERTEX<sup>®</sup> MINI TYPE FOR EDM



Tool makers vise of mini type which can be put in a bigger vise to process the small and precise workpiece. Also it can be used in an E.D.M. machine and grinding machine.  
 Squareness and parallelism: within  $\pm 0.003 / 100$  mm  
 ※ Not 100% magnetic proof



ORDER NO.	MATERIAL	LENGHT	WIDTH	JAW OPENING	JAW HEIGHT	HARDEN	WEIGHT (kgs)	CODE NO.
VSTV-10V	SUS 440	65	25	19	10	HRC 56°-58	0.3	2008-070

TOOL MAKER VISE

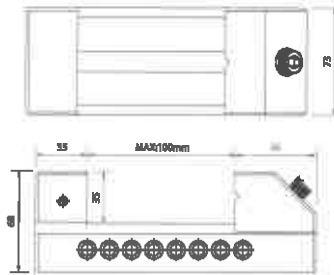
## Tool Maker Vise (STAINLESS)

ORDER NO.	WEIGHT (kgs)	CODE NO.
VBST-30	4.5	2008-075

Material: SUS 440  
 Hardness: HRC 58°~60°  
 Squareness: Within 0.005 / 100 mm  
 ※ Not 100% magnetic proof

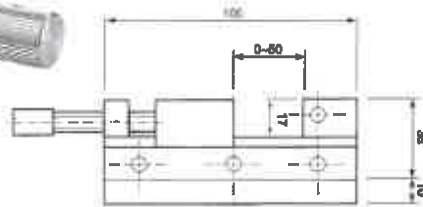
MINI TYPE FOR EDM  
 Unit:mm

TOLERANCE	
A	$\pm 0.004$ mm
B	$\pm 0.005$ mm
C	$\pm 0.005$ mm
D	$\pm 0.005$ mm
E	$\pm 0.005$ mm
F	$\pm 0.005$ mm
G	$\pm 0.005$ mm



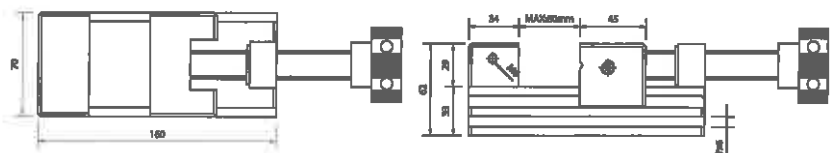
## Tool Maker Vise (STAINLESS)

FOR EDM



- Material: SUS 440
  - Hardness: HRC 56°
  - Squareness: Within 0.005 / 100 mm
  - It was made by tool steel of stainless steel system and was precision ground after hardened by heat treatment. So, it will not be rusted even permeation.
  - The vise can clamp workpiece by moveable Jaw without lifting. It is easier and convenient for processing small workpieces.
- ※ Not 100% magnetic proof

VSTV-20



VSTV-25

ORDER NO.	MATERIAL	LENGHT	WIDTH	JAW OPENING	JAW HEIGHT	HARDEN	WEIGHT (kgs)	CODE NO.
VSTV-20	SUS440	100	35	50	17	HRC56°	1.2	2008-079
VSTV-25		160	62	80	29		4.4	2008-080



# Electro Vise

MINI TYPE  
JAW WIDTH 25mm



# VERTEX

(ALLOY STEEL) FOR EDM



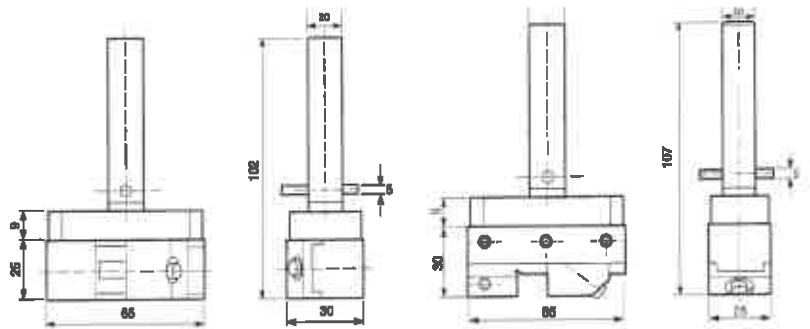
## ELECTRODE HOLDERS FOR ELECTRO DISCHARGE MACHINE

Mini vise can be used in fixed electrode holders.

The opening with a cross V groove on the vise can do electric discharging both by vertical way and horizontal way for various-shape workieces.

The max. opening on the vise is 20 mm.

※ Not 100% magnetic proof

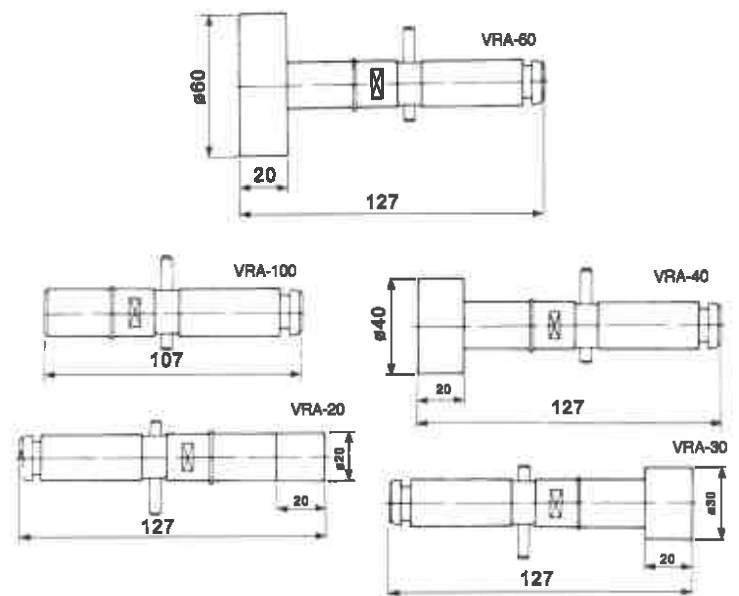


ORDER NO.	MATERIAL	LENGHT	WIDTH	JAW OPENING	JAW HEIGHT	HARDEN	WEIGHT (kgs)	CODE NO.
VEH-20	SKS	65	25	20	10	HRC 58°-60°	0.8	2008-001



# Electrode Holder

FOR EDM



ORDER NO.	VRA-20	VRA-30	VRA-40	VRA-60	VRA-100
WEIGHT(KG)	0.2	0.4	0.5	0.9	0.3
CODE NO.	2008-010	2008-011	2008-012	2008-013	2008-014



**FEATURES**

**CHEMICAL COMPOSITION**

65/35 brass equivalent to Alloy No. JIS-H3260 C2700

**NO ACID-CORROSION AND NO DAMAGE TO RESINS**

The special treatment avoids acid-corrosion on machine and workpiece.

**HIGH SURFACE QUALITY**

The special treatment makes the wire surface smooth, free from dirt, rust and grease that causes unefficiency to electric discharge.

**STANDARD WEIGHT CONTROL**

By perfect control in process, we obtain the standard weight per coil that enables us to maintain the stability of processing time and the accuracy of drawing.

**NO WELDMENT**

The rough surface caused by welding could affect the quality and accuracy of performance. The welded wire tends to break that wastes the time to re-thread.

**HIGH-DIMENSIONAL PRECISION**

Wire diameter tolerance and roundness tolerance are both limited to 1/μm.

**OUTSTANDING STRAIGHTNESS**

Outstanding straightness ensures automatic threading successfully.

※FLOATING PRICE, CONTACT US BEFORE ORDERING.

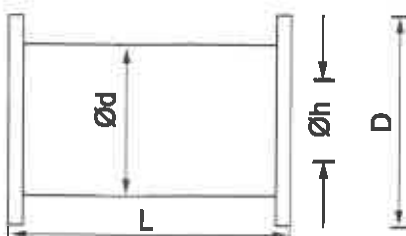
**SPECIFICATION**

ORDER NO.	WIRE TYPE	DIAMETER		DIAMETER TOLERANCE (mm)	BREAKING LOAD (kgs)	TENSILE STRENGTH (N/mm)	ELONGATION (%)	SUITFUL WORKING STYLE	CODE NO.
		Inch	mm						
VEW-20H	HEAD	0.008	0.20	±0.001	3.14	980 ≧	0.4 ≧	STRAIGHT CUTTING	2009-003
VEW-25H		0.010	0.25		4.92			a.PASS CUTTING	2009-004
VEW-30H		0.012	0.30		7.07			b.ROUGH CUTTING	2009-005
VEW-20S	SOFT	0.008	0.20	±0.001	1.41	441 ≧	15 ≧	ANGLE CUTTING	2009-010
VEW-25S		0.010	0.25		2.21				2009-011
VEW-30S		0.012	0.30		3.18				2009-012

THE PACKING USED A STANDARD COIL.

HERE SHOW 3 KINDS OF COIL PACKING TYPE FOR CHOICE. THE POPULAR IS P-5R (5kgs).

OTHER COIL TYPE, WEIGHT WELL BE AVAILABLE.



PACKING COIL TYPE	COIL SHAPE	WIGHT OF WIRE ON COIL (kg)	DIAM- THE OF WIRE (mm)	D (mm)	d (mm)	L (mm)	h (mm)	LENGTH OF WIRE ON COIL (M)	NUMBER OF COILS /BOX
P-5R		5	0.20 0.25 0.30 0.33	160	90	114	20	18314 11553 8001 6750	4

Used to guide wire in wire electro-discharge machines.

ORDER NO.	MAKER	APPLICATION	REMARKS	CODE NO.
 M118	MITSUBISHI	SX, CX, FX Upper 上 (線切割眼模 M118)	C 834G	2009-030
 M119		SX, CX, FX Lower 下 (線切割眼模 M119)	B 243G	2009-031
 M103 Ø3		F, FL, G, Opening Ceramic Stainless (眼模螺絲 Stop screw M108)	D 162G	2009-032
 M108			D 123G	2009-033
 M111		G, H~HA, C, CR, (偏心座 Dies Holder M111)	X 184D226H01	2009-034
 M117 Ø4		H1, HA, B, Z SK/AF Lower 下 (線切割眼模 M117)	B 176G	2009-035
 M107		H1, HA, B, Z SK/AF Upper 上 (線切割眼模 M107)	B123G	2009-036
 M120		H1, A, B, Z/AF Upper 上 (眼模螺絲 Stop screw M120)	C524G	2009-037
 Z141			Ceramic Guides for Small Hole EDM machine (放電打孔機用導管 Z141)	
 S103	ソデック SODICK	A300, 500, Aw330, 450 EPOC, AP, BF (線切割眼模 S103)	GUIDE (87-3)	2009-039
 S111	SEIBE	F, K Upper & Lower (線切割眼模 S111)		2009-040
 H102	HITACHI	H1-Cut 203, 304, 345, 460 Lower 下 (線切割眼模 H102)		2009-041
 F120	ファナック FANUC	∞ °A, °B Upper 上 (線切割眼模 F120)		2009-042
 F121				∞ °A, °B Lower 下 (線切割眼模 F121)
 F101		O, P, Q, R, W Upper & Lower 上、下 (線切割眼模 F101, F102)		2009-044
 F102				
 F123		1A, 1B, Upper 上 (線切割眼模 F123)		2009-045
 F124		1A, 1B, Lower 下 (線切割眼模 F124)		2009-046

# Electrode (Copper & Brass Pipe Electrode)

Used to guide wire in wire electro-discharge machines.



STD. STYLE



SUPER 8 STYLE



- BRASS PIPE FOR STEEL & TREATMENT STEEL. COPPER PIPE FOR TUNGSTEN MATERIAL & SMALL HOLE.
- SUPER STYLE HOLE COPPER PIPE FOR HIGH SPEED MACHINING & NON THROUGH HOLE.
- THE LENGTH 300MM OR 400MM OF PRICE IS SAME. PLEASE NOTIFY THE LENGTH WHEN YOU ORDERING.
- EAH UNIT PRICES IS 20 PCS.

ELECTRODE

## STANDARD STYLE HOLE

MATERIAL		HOLE DIA.	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3
BRASS	ORDER NO.		VEB-04	VEB-05	VEB-06	VEB-07	VEB-08	VEB-09	VEB-10	VEB-11	VEB-12	VEB-13
	CODE NO.		2010-001	2010-002	2010-003	2010-004	2010-005	2010-006	2010-007	2010-008	2010-009	2010-010
COPPER	ORDER NO.		VEP-04	VEP-05	VEP-06	VEP-07	VEP-08	VEP-09	VEP-10	VEP-11	VEP-12	VEP-13
	CODE NO.		2010-030	2010-031	2010-032	2010-033	2010-034	2010-035	2010-036	2010-037	2010-038	2010-039

MATERIAL		HOLE DIA.	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2
BRASS	ORDER NO.		VEB-14	VEB-15	VEB-16	VEB-17	VEB-18	VEB-19	VEB-20	VEB-21	VEB-22
	CODE NO.		2010-011	2010-012	2010-013	2010-014	2010-015	2010-016	2010-017	2010-018	2010-019
COPPER	ORDER NO.		VEP-14	VEP-15	VEP-16	VEP-17	VEP-18	VEP-19	VEP-20	VEP-21	VEP-22
	CODE NO.		2010-040	2010-041	2010-042	2010-043	2010-044	2010-045	2010-046	2010-047	2010-048

## SUPER 8 STYLE HOLE COPPER & BRASS PIPE ELECTRODE

MATERIAL		HOLE DIA.	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7
ORDER NO.			VES-10	VES-11	VES-12	VES-13	VES-14	VES-15	VES-16	VES-17
CODE NO.			2010-064	2010-065	2010-066	2010-067	2010-068	2010-069	2010-070	2010-071

MATERIAL		HOLE DIA.	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5
ORDER NO.			VES-18	VES-19	VES-20	VES-21	VES-22	VES-23	VES-24	VES-25
CODE NO.			2010-072	2010-073	2010-074	2010-075	2010-076	2010-077	2010-078	2010-079

## EDM Filter For EDM (Oil)

ORDER NO.	OUTER DIA.	INNER DIA.	LENGTH	SUITABLE MODELS	WEIGHT (kg)	CODE NO.
NH-01	150	72	450	SEIBU.JAPAX.SODICK.AMADA	1	2011-001
NH-09	150	33	360	CHARMILLES.AGIE.MITSUBISHI	0.8	2011-002
NH-09S	150	91	309		1.2	2011-003
NH-600L	150	26	600	WITH STEEL NET	1.2	2011-004

Unit:mm



VAP-1



VAP-2



VAP-3

90° V-way. High carbon steel hardened to 50°-54° HRC, precision ground to within 0.005mm accuracy in squareness. Angle tolerance ± 10 minutes. Sets any angle 0-60°, vernier reading 10 minutes. 2 set screws provided for firmlocking at fixed angle.

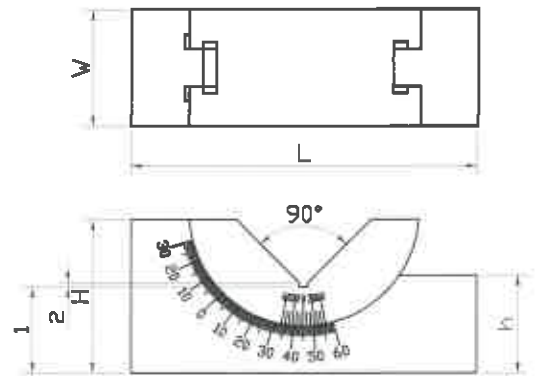
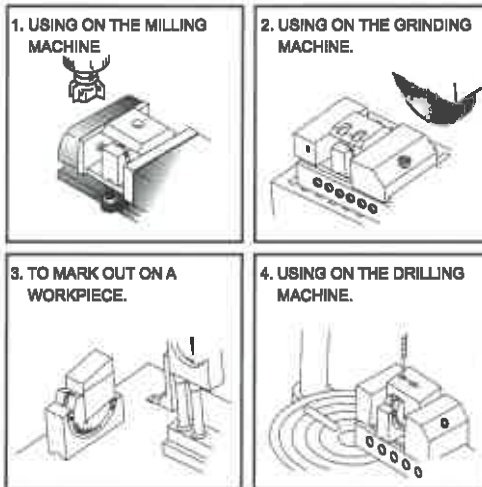
Material: SK2

Hardness: HRC 50°-54°

Squareness: ±0.01 mm

Angular measures from 0°-60°

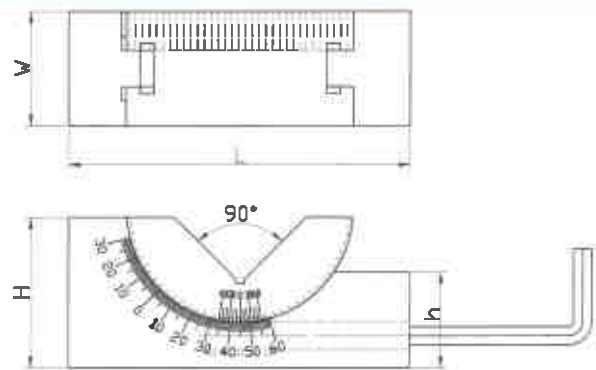
※ Not for LAB



Unit:mm

ORDER NO.	H	W	L	h	N.W. (KGS)	CODE NO.
VAP-1	48	45	102	28	1.4	2005-001
VAP-2	49	30	102	28	0.9	2005-002
VAP-3	32.5	25	75	21	0.5	2005-003

## Micro-Adjustable Angle Plate



Angle Can Be Adjusted From 0°~60° By Screw

※ Not for LAB

Unit:mm

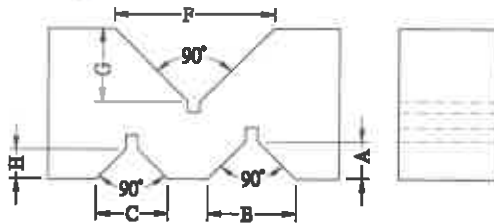
ORDER NO.	H	W	L	h	N.W. (KGS)	CODE NO.
VAPM-1	47	46	102	28	1.4	2005-010
VAPM-2	47	30	102	28	1	2005-011
VAPM-3	32	25	75	22	0.5	2005-012



# Precision V Block



Material : Steel  
 ● For Production  
 ✖ Not for LAB



Unit:mm

ORDER NO.	A	B	C	F	G	H	L X W X H	WEIGHT (KGS)	CODE NO.
V-5VA	14	35	40	63	29	19	124X35X61	2.8	2005-017
V-3VA-S	10	22	18	40	18	8	72.8X25X36.7	0.88	2005-018
V-4VA-S	15	32	18	50	24	8	100X36X60	2.9	2005-019
V-5VA-S	16	35	22	65	31.5	9.5	124.6X49.8X79.8	6.8	2005-020

ANGLE BLOCK

# Precision Angle Blocks

ORDER NO. AB-130 CODE NO. 2006-001

WEIGHT: 1kg



Furnished in 1° increments to 5 degrees and in 5° increments to 30 degrees. With the addition of the optional 1/4° and 1/2° blocks virtually and conceivable angle to these increments can be established.

- Simple, quick angle set-ups.
  - Eliminates calculations, avoids errors.
  - Lightly magnetized for better holding.
  - Manufactured of steel, hardened, stabilized and ground.
  - Sizes: 3" long x 1/4" thick. (75mm x 6mm)
  - Accuracy: .0001" per inch.
  - Oil-hardened steel, precision ground. 12pcs angle blocks (1/4°, 1/2°, 1°, 2°, 3°, 4°, 5°, 10°, 15°, 20°, 25°, 30°)
- ✖ Not for LAB

# Universal Angle Block Set



No sine plate, sine vise, angle chart or gauge block needed!

- A slope at any angle can be provided by installing a block or blocks on a machine vise up to 5%
  - 8 pieces in a deluxe wooden box include: 10°, 15° & 30° vee blocks and 5 angle plates-1° to 5° for AB-164
  - Heat treated 50° HRC & ground to 10 sec.
  - 9pcs angle blocks (1/2°, 1°, 2°, 3°, 4°, 5°, 10°, 15°, 30°) for AB-163
- ✖ Not for LAB

mm

ORDER NO.	L X W X H	WEIGHT (KGS)	CODE NO.
AB-163	Vee blocks: 3"Lx1 1/16"Wx1 1/16"H Angle Plates: 2 3/4"Lx1 3/16"Wx5/64"H	2	2006-010
AB-164	Vee blocks: 4"Lx1 1/2"Wx1 1/2"H Angle Plates: 4"Lx1 1/2"Wx5/32"H	3.8	2006-011

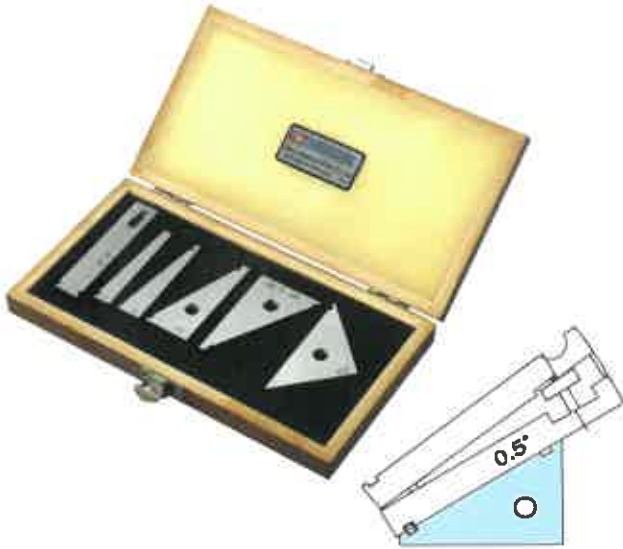


# Micrometric Tangent Bar & Angle Gauge Block Set



ORDER NO.AB-166 CODE NO.2006-020

WEIGHT:1kg



## Micrometric Tangent Bar & Angle Gauge Block Set

- Made of Hardened Steel, Precision Ground.
  - Accuracy  $\pm 0.001$ " Per Inch.
  - Interlocking Slots.
  - Size of Angle Blocks: .35"x3"
- A Complete set for Angular set-ups. No Other Gauges Required.
- Simplicity in application.
- Angular set-ups with this are a zip. Just dial your angle direct in degrees and minutes. Add one or two angle block gauges for angles over 5° and Secure assembly by dropping 1/8" dowel or square key into slot provided.
- Complete with fitted case.
  - Hardness : HRC 50°
- ※ Not for LAB



# Solid Angle Plates

ORDER NO.AB-167 CODE NO.2006-030

WEIGHT:0.3kg



## Solid Angle Plates

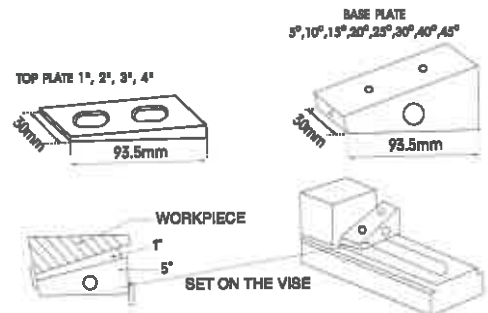
- Precision ground angles for convenient set-ups in tooling, production and inspection.
  - Four holes on top of it for easy mounting.
  - 1/4" Thick, packed in cardboard box.
  - Set of 3"x3"x4-3/8", 45°x45°x90°x1pc  
2"x3-15/32"x4", 30°x60°x90°x1pc
  - Hardness : HRC 50°
- ※ Not for LAB



# Precision Angle Blocks

ORDER NO:AB-113(13PCS/SET) CODE NO:2006-040

WEIGHT:7.1kgs



## FEATURES

- Angle Tolerance:0.02Mm
- Can Be Assembled Top Plate With Base Plate For 6°-9°, 16°-19°, 26°-29°, 36°-39°, 46°- 49°
- Harden Treatment Up To Hrc 55°
- Made By The Material Of Sk2
- Can Be Cooperate Two Set For Use.

※ Not for LAB  
EXAMPLE FOR USE

PLATE	ANGLE DEGREE
TOP PLATE	1°, 2°, 3°, 4°
BASE PLATE	5°, 10°, 15°, 20°, 25°, 30°, 35°, 40°, 45°



Squares have accurate right angles both inside and outside. Made from a single piece of fully tool steel. Beams and blades are ground and accurately lapped for straightness and parallelism. Blades are beveled on both edges of each side. Beam is grooved at inner corner for clearance of burr and dirt. All squares are fully hardened. Packed in individual cartons. Accuracy 0.02mm.

※ Not for LAB

ORDER NO.	L x H x thick	NEW WEIGHT (KGS)	CODE NO.
<b>SS-304</b>	100X75X8MM	0.3	2006-050
<b>SS-306</b>	100X150X8MM	0.6	2006-051
<b>SS-308</b>	130X200X8MM	0.8	2006-052
<b>SS-310</b>	250X160X10MM	1.4	2006-053
<b>SS-312</b>	300X200X12MM	2.2	2006-054

Hardness : HRC50°

SQUARE

## Square



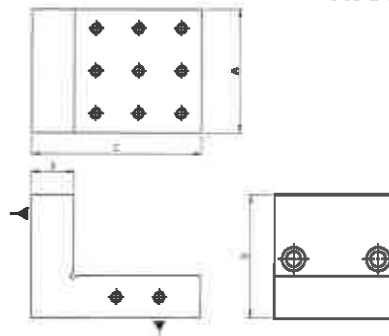
Alloysteel Grounded HRC50° ± 2

※ Not for LAB

ORDER NO.	LxHxthick	ACCURACY	WEIGHT(kg)	CODE.NO.
<b>FS-204</b>	100x75x6mm	0.02mm	0.2	2006-055
<b>FS-206</b>	150x100x6mm		0.3	2006-056
<b>FS-208</b>	200x130x6mm		0.5	2006-057

## Precision Steel Angle Plate

HIGH PRECISION TYPE



MATERIAL : YK30 ALLOY STEEL  
 ACCURACY : 0.005/100MM  
 HARDEN TREATMENT UP TO HRC 58°  
 ※ Not for LAB

ORDER NO.	A	B	C	D	N.W (KGS)	CODE NO.
<b>VRS-33</b>	3"	3"	4"	1"	2.2	2006-060
<b>VRS-44</b>	75	75	100	25	3.7	2006-061
	4"	4"	4"	1"		
<b>VRS-46</b>	100	100	100	25	4.5	2006-062
	4"	4"	6"	1"		
<b>VRS-85</b>	100	100	150	25	14.3	2006-063
	8"		8"			
<b>VRS-1206</b>	200	120	200	40	32.3	2006-064
	12"	6"	12"	2"		
	300	150	300	50		



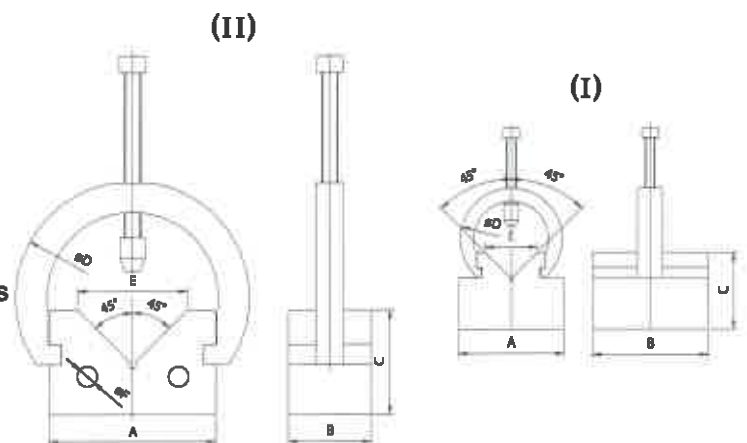
**PAIRS**  
VBC-196  
VBC-197



**PAIRS**  
VBC-195



- Two V blocks and two clamps are include in the set.
- Made of hardened tool steel machined & ground in pairs close tolerances.
- A precision set for toolmakers & machinists.
- ✘ Not for LAB



ORDER NO.		A	B	C	D	E	F	N.W. (kgs)	CODE.NO.
VBC-195	I	63	70	46	61	31		3.1	2007-001
VBC-196	II	100	50	63	140	66	12	5.9	2007-002
VBC-197	III	150	64	100	193	110	12	14.7	2007-003

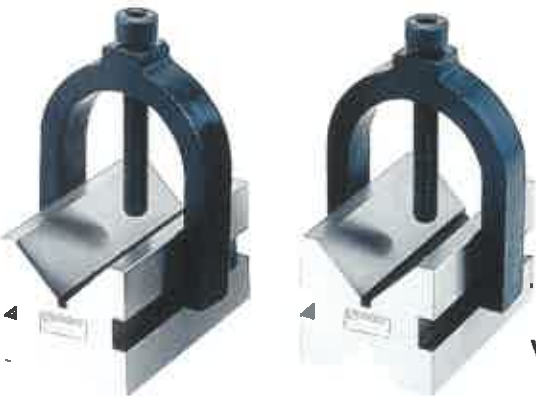
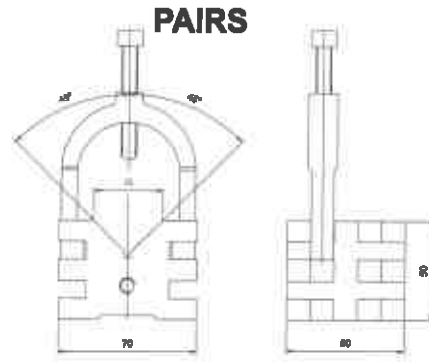
# V-Block With Clamp



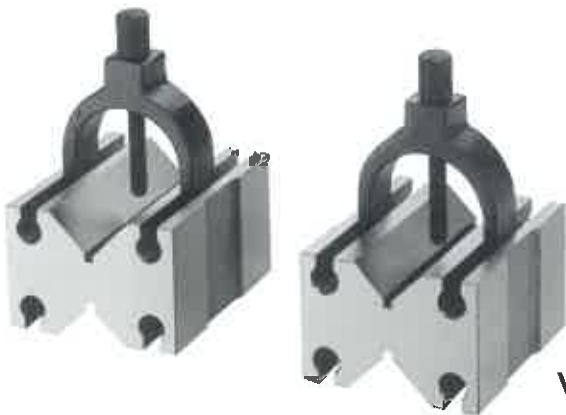
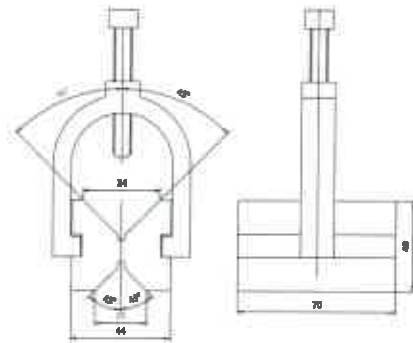
Alloysteel Grounded HRC50°



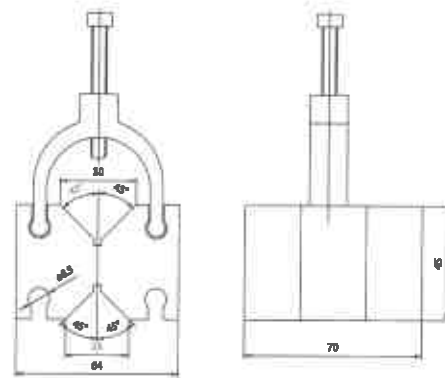
**PAIRS**  
VBC-003



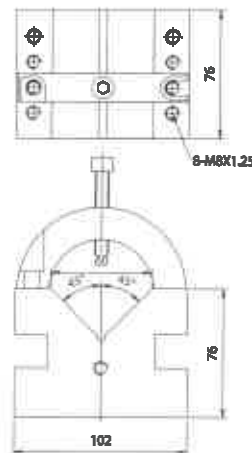
**PAIRS**  
VBC-243



**PAIRS**  
VBC-006



**SINGLE**  
VBC-009



V-BLOCK WITH CLAMP

ORDER NO.	W	H	L	W.OF SMALL VEE	W.OF LARGER VEE	PACKING	G.W. (kgs)	CODE NO.
VBC-003	2.36 60mm	1.86 50mm	2.75 70mm	NON	V35 X V5.5	110x80x110mm	2.4	2007-010
VBC-243	2 3/4 70mm	1 3/4 45mm	1 5/8 42mm	NON	V32 X V3.5	75x80x100mm	1.9	2007-020
VBC-006	2 1/2 64mm	1 3/4 45mm	2 3/4 70mm	V25 X V3.5	V30 X V3.5	110x80x110mm	2.6	2007-030
VBC-009	4 102mm	3 76mm	3 76mm	NON	V59 X V4.5	70x50x110mm	3.9	2007-040

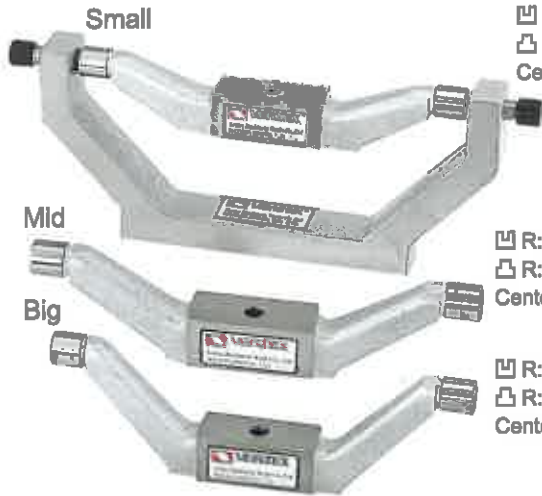


# Tangimatic Dresser

ORDER NO.V-TDA CODE NO.2012-001

WEIGHT: 7 kgs

▣ R:0-20  
▣ R:0-5  
Center:40.02 mm



Small

Mid

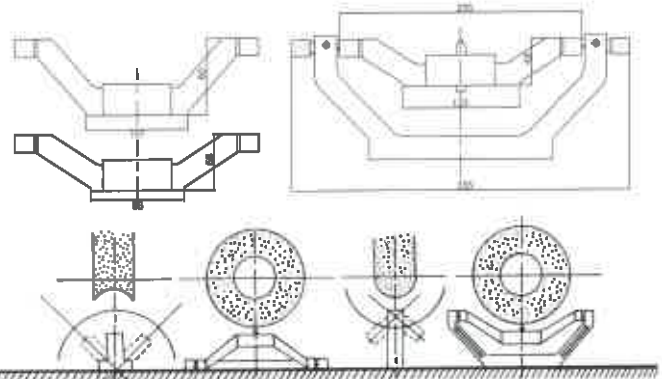
Big

▣ R:20-45  
▣ R:5-20  
Center:53.88 mm

▣ R:45-90  
▣ R: 20-40  
Center: 71.95 mm



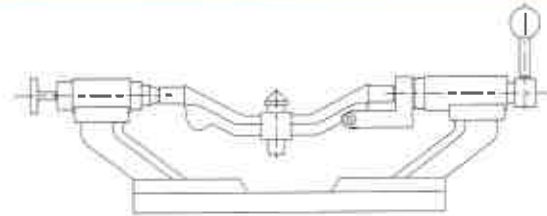
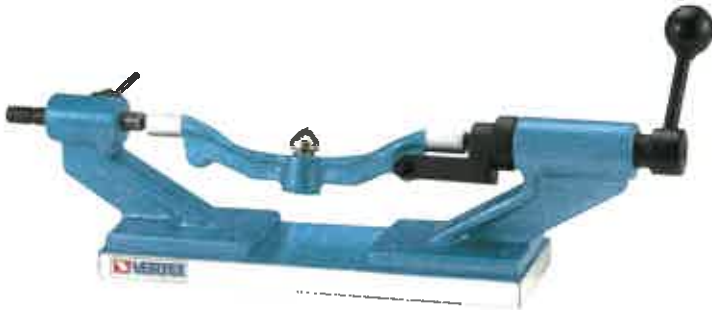
The dresser can be dressing any concave and convex of grinding wheel <math>\lt; \varnothing 205 \text{ mm}</math>  
Concave R: 0-40R (mm)  
Convex R: 0-90R (mm)  
Max. wheel DIA.: 8" (200 mm)  
Diamond dresser pen 10 mm



# Tangimatic Dresser Handy Type

ORDER NO.V-TDH CODE NO.2012-002

WEIGHT:4.5 kgs



The dresser can be dressing any concave and convex of grinding wheel  
Convex R: 0.2-20 (mm)  
Concave R: 0.2-25 (mm)  
For wheel <math>\lt; \varnothing 205 \text{ mm}</math>



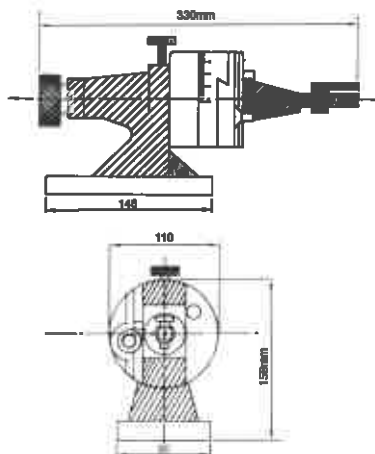
# Radius And Angle Dresser

ORDER NO.V-TDB CODE NO.2012-010

WEIGHT:11.5 kgs



Convex dressing range: 0.8R-40R  
Concave dressing range: 0-40R  
Max. wheel dressing diameter: 250 mm  
Max. wheel extending diameter: 375 mm



- Positive setting of the diamond to absolute center with the special gage included with the dresser.
- Simple, fast, accurate radius setting; no height gage or other set-up aids required. Radius is set on the grinder by measuring over the two pins or by inserting a gage block, as shown, for direct reading. Inside or outside radius is determined simply by sliding the dowel pin to the right for concave and to the left for convex.
- 4x90° gaduation in full 360° circle. 6 Minute vernier reading. Chrome plated.
- One push-pull type knob for radius and angle control and for safer and faster operations.
- ACCURACY. Exteremely close tolerances are held in the manufacture of this tool, assured by hardening and precision grinding of all critical parts. Ways are chrome hardened.
- ECONOMY. Set-up and dressing time reduced to a bare minimum due to simplicity.



The wheel dresser that dresses two angles tangent to a radius in one continuous motion with .0001~0.0002mm accuracy. The wheel dresser with a micrometer feed-0.98"(25mm) travel.

### SIMPLE-ELIMINATES HIGHLY SKILLED OPERATORS

Fluidmotion means YOU CAN dress two angles tangent to a radius in one continuous motion-with only one setting. The diamond automatically returns to center position after dressing angles. Thus even a beginner can dress complex forms quickly and accurately. (center height 195mm)

### ELIMINATES ELABORATE SETUPS

No need to pre-set diamond, or use any other tool except a micrometer and a simple hex wrench.

No Gage block-Master Gage setting or Block-Parallel Bar-Surface Plate-Height Gage-Dial Indicator.

No movement of dovetails necessary to form angles. The angle is dressed by continuing to push handle in both directions after radius is formed.

No need to use Gibs & V-Ways other than positioning surfaces.

### ACCURATE-RAPID, REPEAT FORM-DRESSING

Fluidmotion generates clean, precise wheel profiles entirely free of chatter marks. Without fluidmotion a perfect blend of angles and radius is improbable.

**PRECISE SHARP CONTOURS**-concave or convex, at a full 180 degrees, are obtained consistently with (GUARANTEED) 0.001" accuracy.

**CONVEX RANGE-0R-76.2R**

**CONCAVE RANGE-0.8R-88.9R**

**ACCURATE...FLUIDMOTION...PRECISE...**

**HOLD INTERSECTING ANGLES** 12 to 15 seconds. This is accomplished by operating upright and handle.

Setting up two angles requires 10 seconds. Setting two angles and radius requires less than 3 minutes.

### THE MOST DURABLE DRESSER AVAILABLE

Manufactured from hardened, ground and lapped alloy steels.

No wearing surfaces. Swivels on sealed bearings.

This form tangent in one setting-two angles-two radius-one flat.

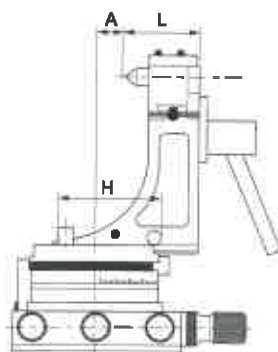
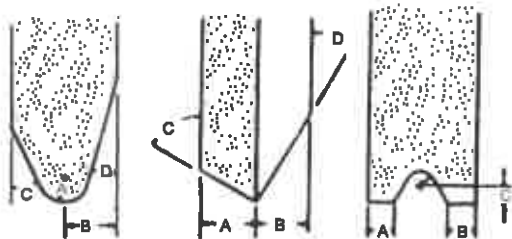
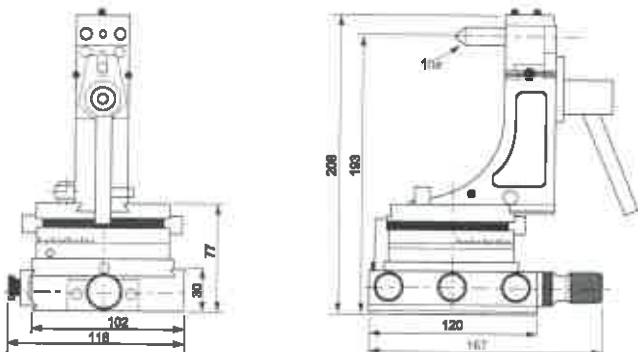
MAX. Swing distance of diamond cutter.....±14mm

Measuring quasi-pin dia.....ø10

MAX. Wheel dia.....ø200mm

Reading accuracy of turret index.....5'

Feed per division of handle scale.....0.01mm



### Calculation Method

To dress convex arc surface:  $H=L + R$

To dress concave arc surface:  $H=L +(-R)$

H: Distance between outer generating lines of two locating pins.

R: Radius of the arc surface to be dressed

L: Distance from tip of diamond cutter to base plate

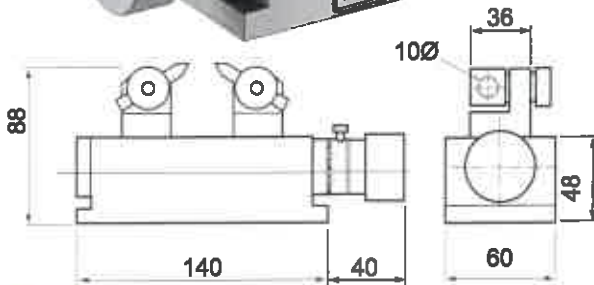
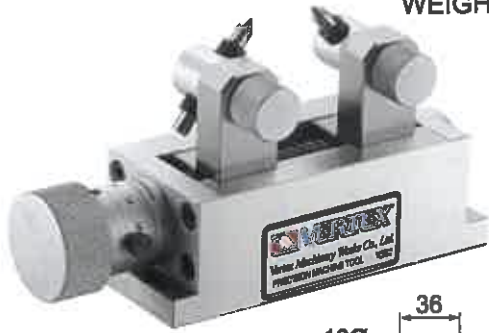


# Precision Duplex Dresser



ORDER NO.V-TDF CODE NO.2012-030

WEIGHT:3.7 kgs



## FEATURES

PRECISION DUPLEX DRESSER is designed to simultaneously dress both sides of a grinding wheel, precisely and without deformation. It is useful for the thinning of grinding wheels or the dressing of thin wheels. manufactured of tool steel and hardened through out to HRC 60 for life time use.

## Specifications:

Max. width of wheel.....40 mm (1-9/16")

Max. dressing depth.....40 mm (1-9/16")

Mini dressing width.....0.2 mm (0.0079")

Graduation.....0.02 mm ( 0.0001")

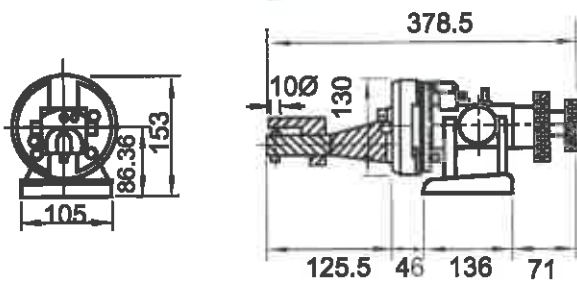
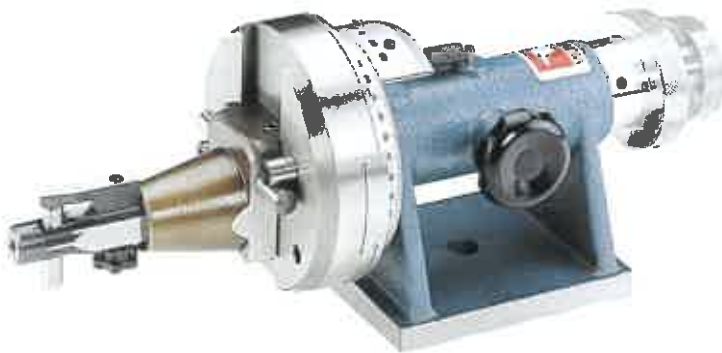
Max.thickness	Min.	Max.	Min
40mm	0.2mm	40mm	0.02mm/div



# Radius And Angle Dresser

ORDER NO.V-TDG CODE NO.2012-040

WEIGHT:12 kgs



## FEATURES

- 6 minute vernier reading.
- 5-1/2" long x 6-1/2" high.
- Dual purpose knob for drum & angle movement.
- Stop for concave and convex radius.
- Comes with setting gage for diamond tool.
- □ R CONCAVE = 150 mm
- ▽ CONVEX = 60 mm
- MAX. Wheel Dia = 279.4 mm
- Left & Right Stroke = 90 mm

## Specifications:

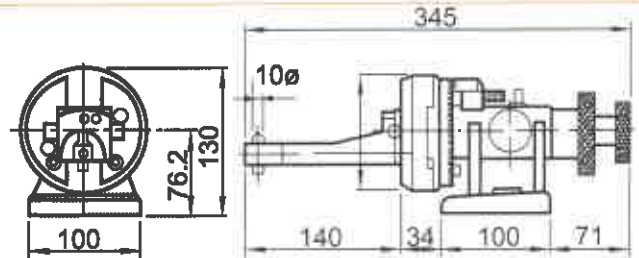
Max. wheel diameter, standard.....	11"
Concave radius with standard diamonds.....	0-2 1/4"
Concave radius with rta-tall diamonds.....	0-2 1/4"
Convex radius.....	0-4"
Tangent travel in either direction.....	1.950"
Center line.....	3.4"



# Radius And Angle Dresser

ORDER NO.V-TDE CODE NO.2012-050

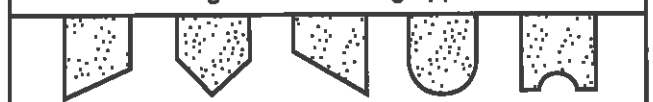
WEIGHT:9.2 kgs



## Features

- No height gauge or set-up aids required.
- Radius is set on the grinder by measuring over the two pins or by inserting a gauge block for direct reading.
- Concave radius or Convex radius is determined by using either the left or right hand pins.
- Radius = Set the DRESSER on surface grinder measuring by the 2 pins and / or inserting gauge block for direct reading.

## Grinding wheel dressing application



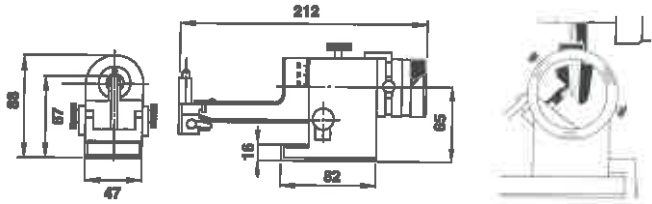
- □ R CONCAVE = 100 mm
- ▽ CONVEX = 45 mm
- Left & Right Stroke = 65 mm



# Optical Radius Angle Dresser

ORDER NO.V-TDT CODE NO.2012-060

WEIGHT:4.3 kgs



## Features

Universal Wheel Dresser Is Adoptable on Surface grinder and universal tool grinder for dressing grinding wheel into various cross sections of flat or curved shapes. By "SIGHTING" the diamond point through the lens, radius and angles can easily be made perfectly tangent Visually Even with diamonds. Likewise radius can be blended together with most unbelievable accuracy.

## Specification

Center height.....65 mm  
 Max. wheel diameter.....200 mm  
 Max. convex radius.....10 mm  
 Max. concave radius.....25.4 mm  
 Dressing angle.....95°-0°-95°  
 Tangential travel.....Appo x 22.5 mm

### Grinding wheel dressing application



WHEEL DRESSER

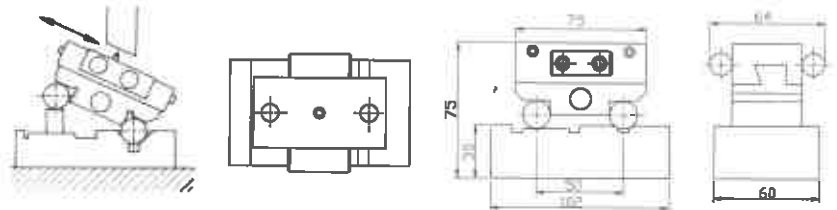
# Matco Sine Dresser

ORDER NO.VP-50 CODE NO.2012-070

WEIGHT:2.5 kgs



DRESSER



## SPECIFICATION

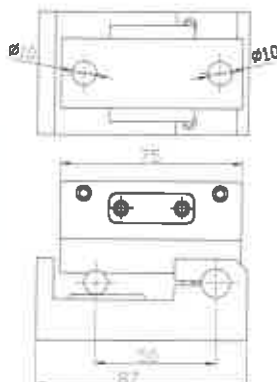
BLOCK CENTER DISTANCE	CENTER TOLERANCE	MAX CROSS FEED
50	±0.01	50

- This fine precision-made unit dresses grinding wheels to any angle from 0°-60° degrees with new smoothness and accuracy.
- The cross feed up to 50mm, center distance 0.01 mm, Sine angle absolutely accurate.

# Matco Sine Dresser

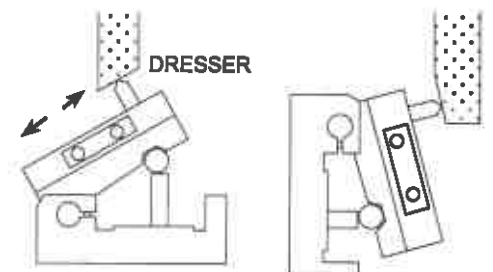
ORDER NO.V-50D CODE NO.2012-080

WEIGHT:1.6 kgs



This fine precision-made unit dresses grinding wheels to any angle from 0°-60° degrees with new smoothness and accuracy.

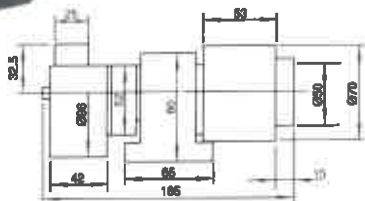
The cross feed up to 50 mm, center distance 0.01 mm, Sine angle absolutely accurate.



# Diamond Wheel Dresser



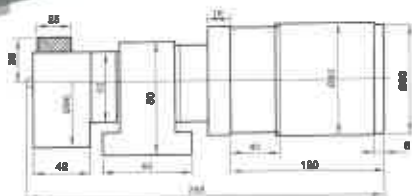
ORDER NO.V-TDD      CODE NO.2012-090  
WEIGHT:4.6 kgs



This device is suitably used for Diamond Grinding wheel. The surface is treated with blaze-dried lacquer. Axis part is fixed with shaft bearing and can be rotated in high speed & with great precision.

- Sand wheel size: Ø75 x 26 x 12.7 ØWA80
- ※ No motor

# Motor Type CBN Flat Wheel Dresser



Unit: mm

ORDER NO.	VOLTAGE	RPM	WEIGHT (kgs)	CODE NO.
V-TDM-1	110V	129	6.5	2012-100
V-TDM-2	220V	108	7.1	2012-101

5.5KGS, SINGLE PHASE

0.07HP

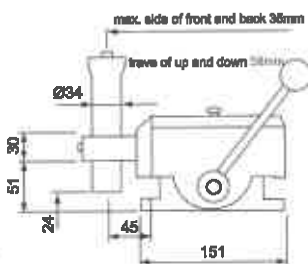
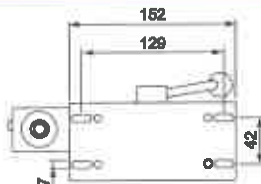
SAND WHEEL SIZE: Ø75 x 25 x 12.7 ØWA80

# Parallel Wheel Dresser

ORDER NO.V-TDP

CODE NO.2012-106  
WEIGHT:7.7kgs

NEW



- Smallest feed scale : 0.01 mm
- Slide movement 35 mm
- Axial movement 58 mm
- For dress / fix the flat shape grinding wheel.
- Heat hardened, HRC 58°
- Smooth movement

### Accessory :

- Diamond pen : Ø10 x 35/ x 1
- Hex. spanner 5 mm x 1

# Wheel Hanger

ORDER NO.VWH-24, VWH-32

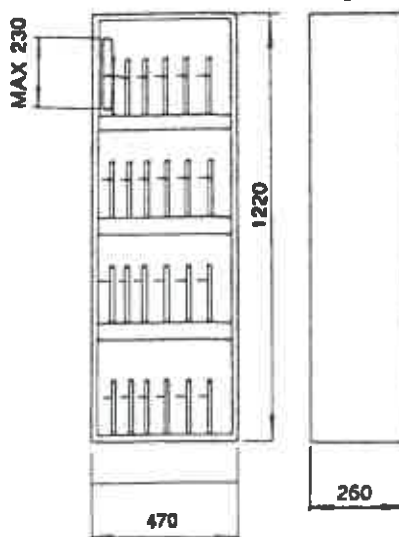
CODE NO.2013-001, 2013-002  
WEIGHT:23.1 kgs



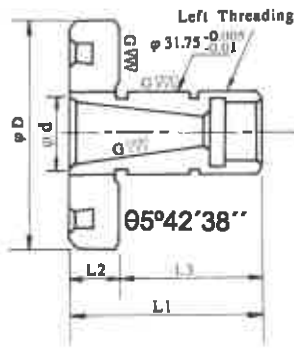
VWH-24  
(24 pcs)



VWH-32 (32 pcs)  
653W x 600D x 1460H mm  
(excl. wheel height)



# Grinding Wheel Flange



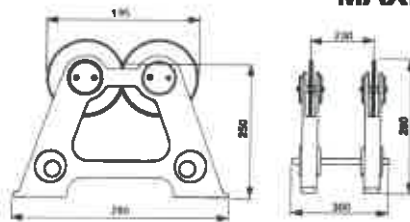
ORDER NO.	ØD	Ød	L1	L2	L3	Brand Mark	WEIGHT (kg)	CODE NO.
FKT-250	78	25.7+0 -0.05	40	13	27	KENT PROTH	0.8	2013-010
FTA-350	75	25.4+0 -0.05	40	13	34	TA TUNG	1	2013-011

GRINDING WHEEL

# Wheel Balancing Stand

ORDER NO. WBS-300 CODE NO. 2014-001

WEIGHT: 12.5 kgs



MAX. WHEEL DIAMETER ALLOWED Ø 500mm

The stand is specifically designed to improve accuracy and longer life for grinding. It is finished with cast iron and fine through hardened to HRC 55°.

# Level Balancing Stand

ORDER NO. LBS-100

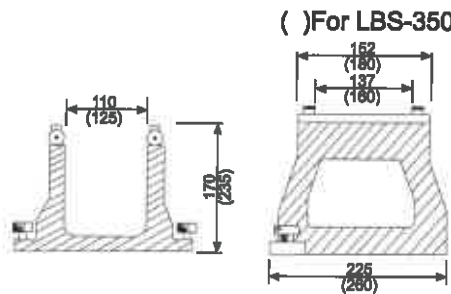
CODE NO. 2014-010

WEIGHT: 8.8 kgs

ORDER NO. LBS-350

CODE NO. 2014-011

WEIGHT: 15.1 kgs

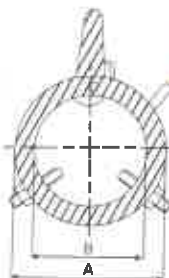
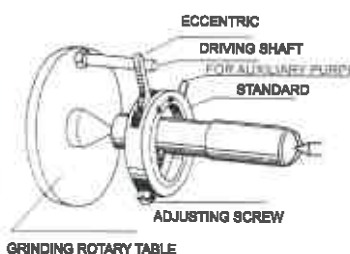


This machine encloses minute leveling instrument.

The adjustment of horizontal enable rapidly and accurately.

MAX. WHEEL DIAMETER ALLOWED Ø200 mm, Ø350 mm

# Driving Carrier



ORDER NO	CAPACITY	A	B	WEIGHT (kg)	CODE NO.
VDC-13	Ø6~Ø14	36	18	0.1	2014-020
VDC-22	Ø13~Ø24	48	28	0.2	2014-021
VDC-30	Ø20~Ø33	58	38	0.2	2014-022
VDC-40	Ø31~Ø42	68	48	0.2	2014-023
VDC-50	Ø36~Ø50	78	58	0.3	2014-024
VDC-60	Ø40~Ø62	89	68	0.3	2014-025
VDC-80	Ø60~Ø80	119	88	0.6	2014-026
VDC-100	Ø80~Ø100	140	109	0.7	2014-027

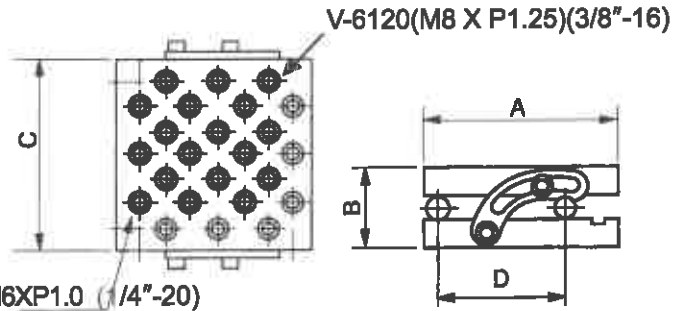
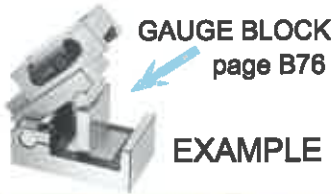
## FEATURES:

- SUITABLE FOR GRINDING OF SHAFTS.
- EASY ATTACH AND DETACH BY ONE HAND.



Design by the principles of SINE, angle grinding can be done well. High precision of parallelism within 0.002 mm and squareness within 0.005 mm. Setup and dressing time reduced to a bare minimum due to simplicity.(ANGLE 0° - 46°)

- Made of quality steel, hardened to HRC 55° - 56°
- Two hardened and ground side rails and one.
- Locking strap included.



ORDER NO.	A	B	C	D	N.W (kgs)	CODE NO.
V-47	98	66	177	75	8.4	2015-001
V-66	150	62	150	100	9.4	2015-002
V-6120	147	65	300	100	19.8	2015-003



# Compound Sine Plate



Made of quality steel, hardened to HRC 55°-62°,angles 0°~60° capacity.

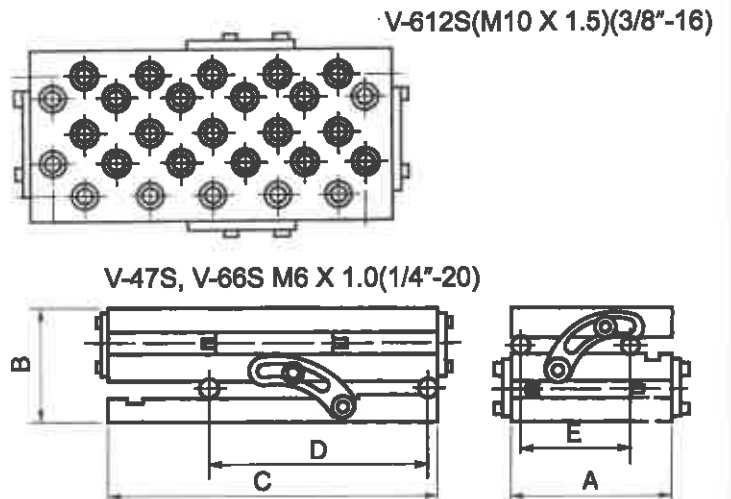
Minute angle step 0.2 built into the front gauge block roll eliminates steps in base plate.

Two end rails and one locking strap included

Tapped holes on the top.

Center distance of tools with 0.005 mm(0.0001")

V-612S within 0.008 mm(0.0003")



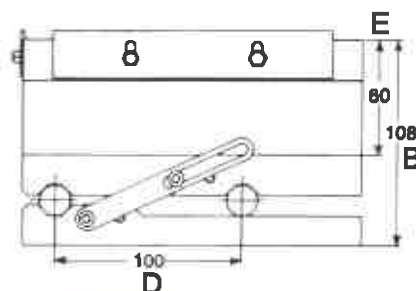
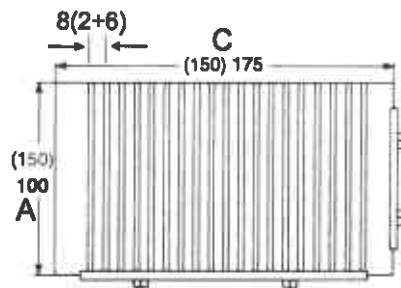
ORDER NO.	A	B	C	D	E	N.W (kgs)	CODE NO.
V-47S	100	100	175	125	75	9.9	2015-010
V-66S	150	100	150	100	100	12.4	2015-011
V-612S	150	100	300	100	100	23.7	2015-012

# Magnetic Sine Plate



650 GAUSS

MAGNETIC SINE PLATES with a permanent magnetic, never lose its strong power by press down a screw based on the plate and regain the original after work.



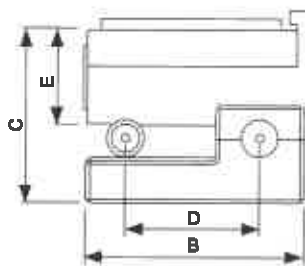
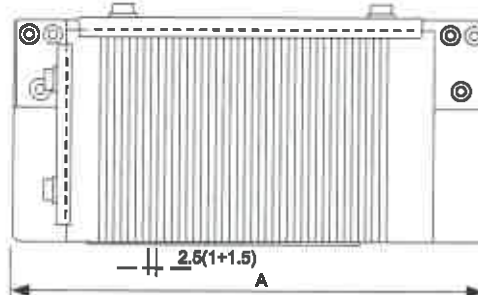
MAGNETIC PLATE

ORDER NO.	A	B	C	D	E	ANGLE	N.W (kgs)	CODE NO.
V-47M	100	108	175	100	60	0°~45°	11.3	2015-020
V-66M	150	108	150	100	60	0°~45°	15.6	2015-021
V-812M	150	108	300	100	60	0°~45°	27	2015-022

# Magnetic Sine Plate With Fine Pole

700 GAUSS

Permanent magnetic chuck. Removable handle for positive on/off control, side rails, end rails all included. All have 200 minute angle steps with 0.005 mm(0.0002") tolerance in squareness, parallelism and roll center distances. The chuck of pole is 1+1.5



ORDER NO.	A	B	C	D	E	P	ANGLE	N.W (kgs)	CODE NO.
V-47MF	225	102	87	75	47	2.5 (1+1.5)	0°~46°	13.1	2015-030
V-66MF	200	152	87	100	47			16.5	2015-031
V-812MF	366	152	87	100	47			30.3	2015-032

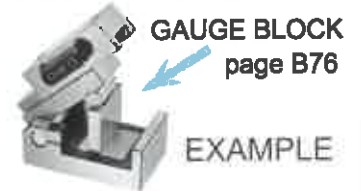


# Adjustable Sine Plate With Fine Pole Magnetic Chuck

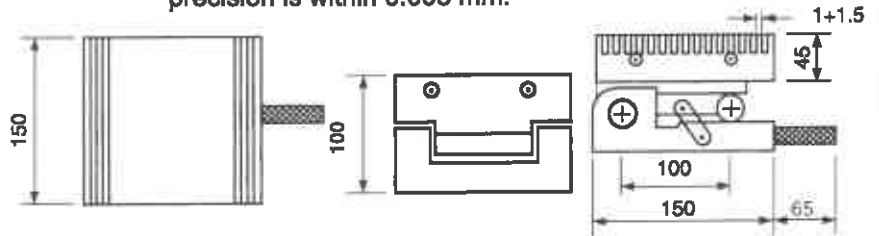


700 GAUSS

ORDER NO. V-66SA CODE NO. 2015-050  
WEIGHT: 17.9 kgs



The sine plate with magnetic chuck is with high accuracy and stability. From 0° to 60° can be used for angle, the precision is within 0.003 mm.



# Double Way Sine Plate With Permanent Magnetic Chuck

690 GAUSS

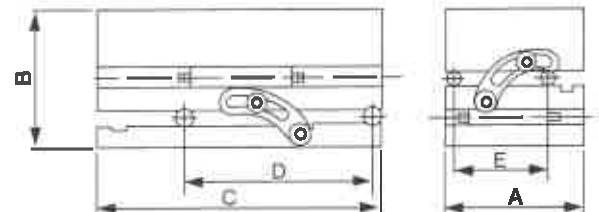


## FEATURES:

- Double way sine plate, can be use to grind two way angle at same time.
- Constructed of hardened alloy tool steel.
- Precise angle setting is obtained with gauge block.
- This device provides positive locking at any angle without distortion.
- A positive locking device is mounted on the base.

Unit:mm

ORDER NO.	A	B	C	D	E	P	ANGLE	N.W (kgs)	CODE NO.
V-47MS	100	142	175	100	75			15.2	2015-060
V-66MS	150	142	150	100	100	1+3	0°~60°	18.1	2015-061
V-812MS	150	142	300	200	100			34.7	2015-062



# Double Way Sine Plate With Fine Pole Magnetic Chuck

700 GAUSS

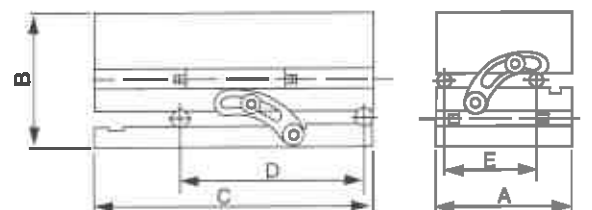


## FEATURES:

- Double way sine plate, can be grind two way angle at same time.
- Special feature with micropitch magnetic chuck, can fix tiny parts firmly on the chuck.
- Constructed of hardened alloy tool steel.
- Precise angle setting is obtained with gauge block.
- This device provides positive locking at any angle without distortion.
- A positive locking device is mounted on the base.

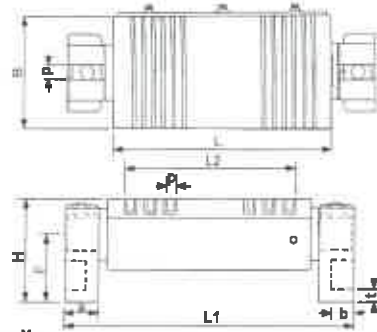
Unit:mm

ORDER NO.	A	B	C	D	E	P	ANGLE	N.W (kgs)	CODE NO.
V-47MSF	100	122	175	100	75			14.9	2015-070
V-66MSF	150	122	150	100	100	2.5 (1+1.5)	0°~60°	19.8	2015-071
V-812MSF	150	122	300	200	100			35	2015-072



# Rotary Permanent Magnetic Plate **VERTEX**

650 GAUSS



- Can grind the (0°-90°) angle work-piece, could be easily set by graduated collar.

Unit:mm

ORDER NO.	SIZE	OPERATION PLANE			POLE PITCH P	ROTARY SEAT PLANE						HEIGHT H	WEIGHT KGS	CODE NO.	
		B	L	L2		a	b	t	F	L1	d				
VLU-510B	125x250	125	250	191	8(2+6)	50	35	17	96	380	16	150	33.2	2015-080	
VLU-612B	150x300	150	300	245						430					43
VLU-618B	150x450	150	450	414						565					

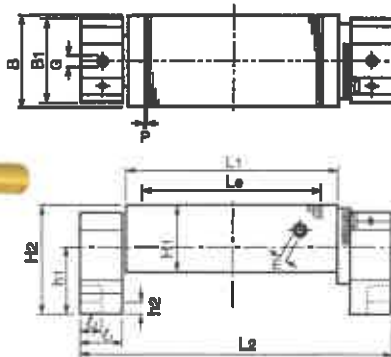
# Rotary Fine Pole Permanent Magnetic Plate

APPLICATION **550 GAUSS**

Suitable for (0°-90°) angle grinding on grinder.

### FEATURES

- Rotary shaft with graduation makes it easy to grind at any angle.
- Integrated molding of machine body and rotary spindle.
- Unchanged surface accuracy during ON/OFF change over.
- Design for distance between both magnets enables machining of various unconfirm in thickness & sizes.



Unit:mm

ORDER NO.	Nominal Dimension	Chuck Dimension			POLE PITCH Length P	Rotary Base						HEIGHT H2	WEIGHT (kgs)	CODE NO.		
		B	L1	L2		H1	B	r1	r2	G	h1				h2	
VLU-407BF	100X175	100	175	125	78	2.5 (1+1.5)	100	50	25	16	103	50	145	19	2015-090	
VLU-510BF	125X250	125	250	200										293	27	2015-091
VLU-612BF	150X300	150	300	246										368	31	2015-092
VLU-614BF	150X350	150	350	296										418	37	2015-093
VLU-618BF	150X450	150	450	396										468	43	2015-094
														568		

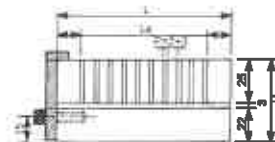
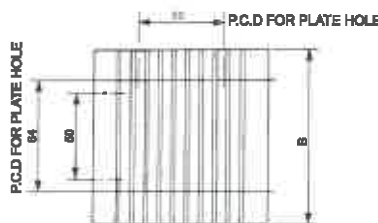
# Hi-Power Mini Type Permanent Magnetic Plate

2200 Gauss

FOR CARBIDE MATERIAL ONLY  
CAN NOT FOR ALL STEEL

### APPLICATION

This chuck is designed for objects with weaker magnetic force. This chuck can be placed in the plate of large permanent magnetic chuck or electro-magnetic chuck for attraction or attachment.



NO ON/OFF SWITCH

Unit:mm

ORDER NO.	DIMENSION	CHUCKING SIZE			POLE PITCH P	HEIGHT H	TESTING BLOCK	WEIGHT (kgs)	CODE NO.
		B	L	Le					
VG-404H	100X100	100	100	72	5(2+3)	50	□ 50x25t TEST BLOCK(TUNGSTEN) 210N(21kgf)	4	2015-100
VG-407H	100X180	100	180	152	5(2+3)	50		7	2015-101
VG-410H	100X250	100	250	222	5(2+3)	50		10	2015-102



# Angular Permanent Magnetic Plate VERTEX®

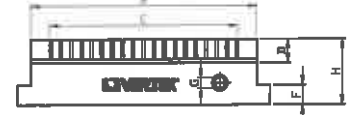
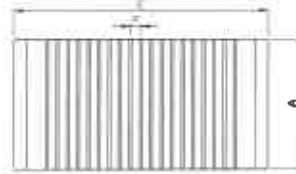
650 GAUSS

SIDE MAGNETIC FORCE 18KGF

PLATE CENTER 26 KGF



TESTING BLOCK  
□25X25X20mm  
BLOCK (TUNGSTEN)



 (2+6)  
Suit for work piece thickness  $\geq 3\text{mm}$  length  $\geq 25\text{mm}$   
Mag. force : 650 GS  
 Good for workpiece bigger in length & width

- Permanent magnetic for ce.
- Well operation, specially treated, nondeformation and high precision.

Unit:mm

ORDER NO.	SIZE	CHUCKING SIZE				POLE PITCH	CHUCK MOUNTING FACE				SWITCH TYPE	HEIGHT H	WEIGHT KGS	CODE NO.
		A	B	C	D		P	G	E	F				
VG-407	100x175	100	175	146	20	8(2+6)	8	187	15	LIVING HEXAGON SOCKET SCREW KEYS	50	7.2	2015-110	
VG-510	125x250	125	250	206				262				15-111		
VG-812	150x300	150	300	256				318				15-112		
VG-814	150x350		350	306				368				15-113		
VG-818	150x450	450	406	468				15-114						
VG-816	200x400	200	400	365				418				15-115		
VG-818	200x450		450	406				468				15-116		
VG-820	200x500		500	456				518				15-117		
VG-824	200x600		600	556				620				15-118		
VG-1020	250x500	250	500	456				518				15-119		
VG-606	150x150	150	150	116	182	9	15-121							
VG-1224	300x600	300	600	550	18	620	48	73.5	15-122					



# Middle Pitch Permanent Magnetic Chuck

600 GAUSS

SIDE MAGNETIC FORCE 19KGF

PLATE CENTER 28 KGF



TESTING BLOCK  
□25X25X20mm  
BLOCK (TUNGSTEN)

 (2+6)  
Suit for work piece thickness  $\geq 3\text{mm}$  length  $\geq 25\text{mm}$   
Mag. force : 600 GS  
 Good for workpiece bigger in length & width



## APPLICATION

New type of thin chuck, in 50mm thickness, for grinding and electrodischarging works, for thin plate or small works, in wide range of applications, it features a wide effective magnetic area on the chucking face.

## FEATURES

- Thin and light to meet versatile applications.
- Fine-pitched magnetic poles, on this model, make it ideally suitable for small and thin works.
- Hexagonal wrench key is used for the magnetic ON/OFF change over handle it is inserted through the side easily removed and operates quite lightly.
- The chuck surface has a wider effective magnetic area than other chucks of similar type.



Unit:mm

ORDER NO.	DIMENSION	CHUCKING SIZE				POLE PITCH	CHUCK MOUNTING FACE			HEIGHT	HEXAGONAL HANDLE HOLE	WEIGHT KGS	CODE NO.
		A	B	C	D		A	E	F				
VGF-1018B	100X175	100	175	146	18	5(1+4)	100	195	15	50	8	7.7	2015-160
VGF-1515B	150X150	150	150	116	18	5(1+4)	150	175	15	50	8	10	2015-161
VGF-1530B	150X300	150	300	256	18	5(1+4)	150	320	15	50	8	18.8	2015-162
VGF-1535B	150X350	150	350	306	18	5(1+4)	150	370	15	50	8	21.6	2015-163
VGF-1540B	150X400	150	400	356	18	5(1+4)	150	420	15	50	8	25	2015-164A
VGF-1545B	150X450	150	450	406	18	5(1+4)	150	470	15	50	8	27.4	2015-164
VGF-2040B	200X400	200	400	356	18	5(1+4)	200	420	15	50	8	32.3	2015-165
VGF-2045B	200X450	200	450	406	18	5(1+4)	200	470	15	50	8	36.3	2015-166
VGF-1018BS	100X175	100	175	146	18	5(1+4)	100	175	15	50	8	8	2015-167
VGF-1515BS	150X150	150	150	121	18	5(1+4)	150	150	15	50	8	9	2015-168
VGF-1530BS	150X300	150	300	256	18	5(1+4)	150	300	15	50	8	20	2015-169



# Fine Pole Magnetic Plate



**SIDE MAGNETIC FORCE 21KGF  
PLATE CENTER 30 KGF  
550 GAUSS**

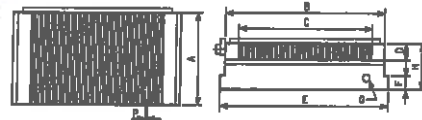


**A TYPE**



(1+1.5)  
Sult for work piece thickness ≤ 2mm, length ≥ 25mm  
Mag. force : 550 GS.

**S TYPE**



**A TYPE**

**S TYPE**



Good for workpiece smaller in length & width

TESTING BLOCK  
□25X25X20mm  
BLOCK (TUNGSTEN)

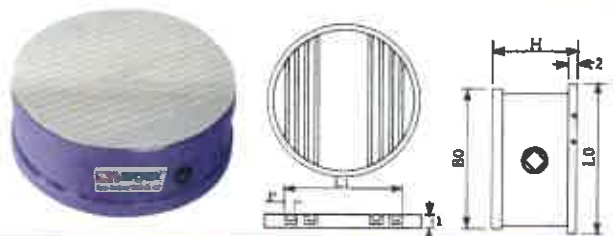
## FEATURES

Thin and light weight to meet versatile applications.  
Fine-pitched magnetic poles on this micropitch model. Make it ideally suitable for small and thin works.  
Hexagonal wrench key is used for the magnetic ON/OFF change over handle. It is inserted through the side, easily removed and operates lightly.  
The chuck surface has a wider effective magnetic area than other chuck of similar type.

Unit:mm

ORDER NO.	SIZE	CHUCKING SIZE				POLE PITCH P	CHUCK MOUNTING FACE			HEIGHT H	WEIGHT KGS	CODE NO.	
		A	B	C	D		A	E	F				
VRTW-1018A	100X175	100	175	146	18	2.5 (1+1.5)	100	195	15	50	7.7	2015-130	
VRTW-1515A	150X150	150	150	116			150	170	15		9.8	2015-131	
VRTW-1530A	150X300	150	300	256			150	320	15		18.7	2015-132	
VRTW-1535A	150X350	150	350	306			150	370	15		21.4	2015-133	
VRTW-1540A	150X400	150	400	356			150	420	15		23.7	2015-134	
VRTW-1545A	150X450	150	450	406			150	470	15		27.4	2015-135	
VRTW-2040A	200X400	200	400	356			200	420	15		32.5	2015-137	
VRTW-2045A	200X450	200	450	406			200	470	15		36.4	2015-138	
VRTW-1224A	300X600	306	600	556			300	620	15		73	2015-138A	
VRTW-1018S	100X175	100	175	146			100	175	-		8	2015-139	
VRTW-1515S	150X150	150	150	121			150	150	-		9	2015-140	
VRTW-1530S	150X300	150	300	256			150	300	-		20	2015-141	
VRTW-1325S	125X250	125	250	206			20	125	250		15	13.1	2015-142

# Round Type Magnetic Plate



**ORDER NO. VGD TYPE**  
**Magnetic field intensity:**  
**Higher than 450 gauss**

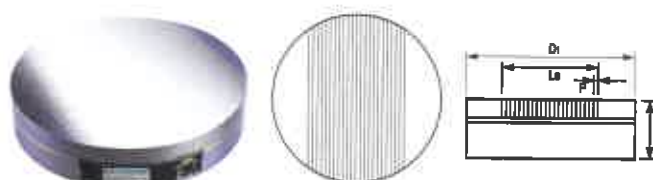
## APPLICATION

Suitable for light cutting and grinding on lathe, grinder, EDM and the Rotary Table.

Unit:mm

ORDER NO.	FACE PLATE			BOTTOM PLATE		POLE PITCH P	HEIGHT H	WEIGHT KGS	CODE NO.
	B0	t1	L1	t2	L0				
VGD-06	150	21	101	18	200	9 (2+7)	78	9.8	2015-150
VGD-08	200		137		200			12.8	2015-151
VGD-10	250		191		250			20.2	2015-152
VGD-12	300		227		305			30.4	2015-153

# Fine Pole Round Type Magnetic Plate



**550 GAUSS**

## APPLICATION

New type of thin chuck, in 50mm thickness, for grinding and electro-discharging works, for thin plate or small works, in wide range of applications, it features a wide effective magnetic area on the face plate (chucking face).

**PLATE SIDE 21KGF  
PLATE CENTER 30 KGF**

Unit:mm

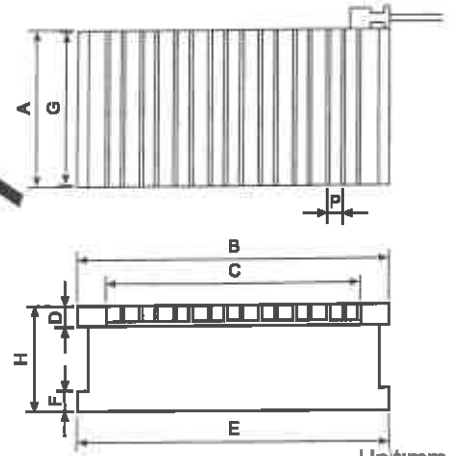
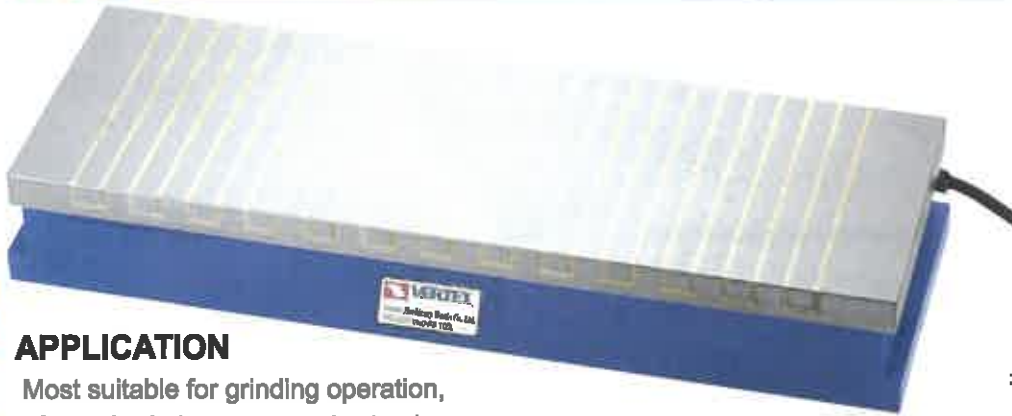
ORDER NO.	DIAMETER	TOP PLATE		POLE PITCH P	HEIGHT H	WEIGHT KGS	CODE NO.
		D1	Le				
VGDW-6	160mm	160	115	2.5 (1+1.5)	50	8	2015-154
VGDW-8	200mm	200	155	2.5 (1+1.5)	50	13	2015-155
VGDW-10	250mm	250	205	2.5 (1+1.5)	50	21	2015-156
VGDW-12	300mm	300	255	2.5 (1+1.5)	50	33.5	2015-157



# Standard Pole Electro Magnetic Chuck



450 GAUSS



Unit:mm

## APPLICATION

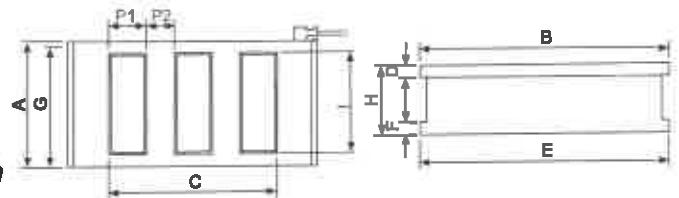
Most suitable for grinding operation, of standard electromagnetic chuck.

ORDER NO.	DIMENSION	CHUCKING SIZE				POLE PITCH		CHUCK MOUNTING FACE				VOLTAGE	CURRENT	WEIGHT (kg)	CODE NO.
		A	B	C	D	P	G	E	F	H					
VEM-1530A	150x300	150	300	228	20	15(3+12)	144	316	20	70	DC-90V	0.15A	21	2015-221	
VEM-1535A	150x350	150	350	288	20	15(3+12)	144	366	20	70	DC-90V	0.18A	25	2015-222	
VEM-1545A	150x450	150	450	378	20	15(3+12)	144	466	20	70	DC-90V	0.24A	32	2015-223	
VEM-2040A	200x400	200	400	348	20	15(3+12)	194	416	20	70	DC-90V	0.47A	38	2015-224	
VEM-2045A	200x450	200	450	378	20	15(3+12)	194	466	20	70	DC-90V	0.35A	43	2015-225	
VEM-2550A	250x500	250	500	438	20	15(3+12)	240	500	20	70	DC-90V	0.73A	67	2015-226	
VEM-3060A	300x600	300	600	529	20	15(3+12)	290	600	20	70	DC-90V	0.97A	97	2015-227	
VEM-4080A	400x800	400	800	725	25	19(3+16)	390	800	20	80	DC-90V	1.56A	182	2015-228	
VEM-40100A	400x1000	400	1000	936	25	19(3+16)	390	1000	20	80	DC-90V	1.60A	228	2015-229	
VEM-50100A	500x1000	500	1000	936	25	19(3+16)	490	1000	20	80	DC-90V	1.72A	285	2015-230	



# Super-Powerful Electric Magnetic Chuck

MILLING M / C TYPE  
1200 GAUSS



## APPLICATION

Most efficient for heavy cutting with milling machine, shaper, planer and planomiller. It displays the power for the thick work and the high speed cutting operation.

Unit:mm

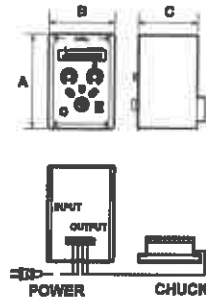
ORDER NO.	DIMENSION	CHUCKING SIZE					POLE PITCH		CHUCK MOUNTING FACE				VOLTAGE	CURRENT	WEIGHT N.W. (kg)	CODE NO.
		A	B	C	D	I	P1	P2	G	E	F	H				
VEM-2040Z	200x400	200	400	332	20	160	40	35	194	400	20	110	DC-90V	0.71	54	2015-251
VEM-2050Z	200x500	200	500	422	20	160	48	34	194	500	20	110	DC-90V	0.91	75	2015-252
VEM-2060Z	200x600	200	600	520	20	160	48	30	194	600	20	110	DC-90V	1.00	80	2015-253
VEM-2550Z	250x500	250	500	422	20	200	42	34	240	500	20	120	DC-90V	1.16	90	2015-254
VEM-3060Z	300x600	300	600	520	20	240	48	30	290	600	20	120	DC-90V	1.63	130	2015-255
VEM-4080Z	400x800	400	800	718	25	340	48	30	390	800	20	120	DC-90V	2.53	230	2015-256
VEM-40100Z	400x1000	400	1000	917	25	340	45	35	390	1000	20	120	DC-90V	2.96	288	2015-257
VEM-50100Z	500x1000	500	1000	917	25	430	45	35	490	1000	20	120	DC-90V	3.96	360	2015-258
VEM-60100Z	600x1000	600	1000	917	25	530	45	35	590	1000	20	120	DC-90V	5.30	432	2015-259

# MAGNETIC CHUCK CURRENT ADJUSTER

(For Rectify & Demagnetize)

ORDER NO. VCC-705(5A)

For VGI-618~2048 / VLZ-510~612 / VIW-612~1224 / VEM-1530A~50100A

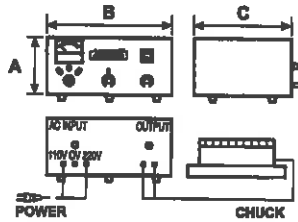


## FEATURES

- Suitable for standard type of electric magnetic chucks.
- With current capacity of 5A; demagnetizing time is 6-15 seconds.
- Precisely adjust the magnetic force of electric magnetic chucks and indicate LED voltage.
- Suitable for any kind of electric magnetic chucks.

ORDER NO. VCC-805A (10A) FOR VGI-2060 / VEA-816~1640 / VEM-2040Z~40100Z

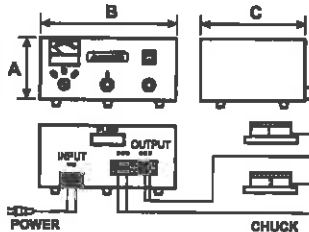
VCC-815 (15A) FOR VEA-2040~VEA2460 / VLZ-2060 / VEM-50100A / VEM-50100Z



## FEATURES

- Suitable for standard type of electric magnetic chucks.
- With current capacity of 10A and 15A; demagnetizing time is 6-15 seconds.
- Precisely adjust the magnetic force of electric magnetic chucks and indicate LED voltage and current.
- Suitable for any kind of electric magnetic chucks.

ORDER NO. VCC-820 (20A) FOR VEA-2460~ / VEM-60100Z



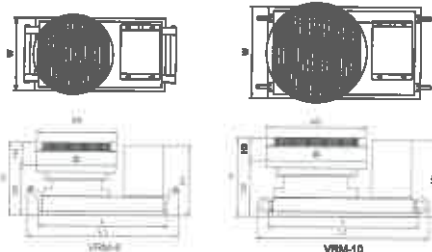
## FEATURES

- Suitable for super powerful type of big electric magnetic chucks and could control 2 chucks at the same time.
- With current capacity of 20A; demagnetizing time is 8-15 seconds.
- Precisely adjust the magnetic force of electric magnetic chucks and indicate LED voltage and current.
- Built-in fan for radiating heat.
- Suitable for any kind of electric magnetic chucks.

Unit:mm

ORDER NO.	INPUT VOLTAGE (SINGLE PHASE)	OUTPUT		DIMENSION			NET WEIGHT (KGS)	CODE NO.
		VOLTAGE	CURRENT	A	B	C		
VCC-705	AC 110V/220V	DC 0-100V	5A	200	137	122	3.5	2015-380
VCC-805A	AC 110/220/380/415/440V	DC 0-100V	10A	150	330	260	18	2015-381
VCC-815	AC 220/380/415/440V	DC 0-120V	15A	150	330	260	20	2015-382
VCC-820	AC 220/380/415/440V	DC 0-120V	20A	180	385	295	32	2015-383

# Variable Speed Rotary Magnetic Chuck



## FEATURES

- This rotary magnetic chuck with the motor. The rotary speed can adjustable.
- It's easy and simple for set up on the surface grinding machine. It's for rotary grinding.
- The precision is within 0.002 mm. High precision, High efficient.
- It provides well prevention for dust, coolant, and lubricants. Spindle end be applied accuracy bearing, can be assured to keep very steady under load grinding.



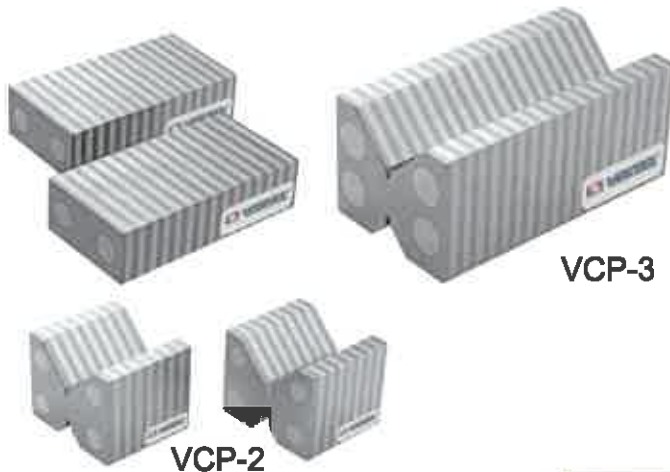
ORDER NO.	L	L1	W	H	H1	H2	H3	ØD	VOLT	G.W.	CODE NO.
VRM-8	325	370	176	180	177	122	58	200	220V	60kg	8001-047
VRM-10	376	422	218	190	183	132	58	250	220V	80kg	8001-048



# Magnetic Transisting Block



VCP-1



VCP-3

VCP-2

- VCP-1 Chuck Parallels  
100x50x25 mm  
3<sup>15</sup>/<sub>16</sub>"x2"x1" Matched pair.
- VCP-2 Chuck Blocks  
49.5x58x45.5 mm  
1<sup>31</sup>/<sub>32</sub>"x2<sup>5</sup>/<sub>16</sub>"x1<sup>13</sup>/<sub>16</sub>" Matched pair.
- VCP-3 Chuck Block  
109x58x46 mm  
4<sup>3</sup>/<sub>8</sub>"x2<sup>3</sup>/<sub>8</sub>"x1<sup>7</sup>/<sub>8</sub>" single
- VCP-4 Chuck Block  
Each one of VCP-1 & VCP-2

◆ The V-Blocks and Parallels transfer the magnetism from permanent magnetic chucks.  
The steel used in all V-Blocks and Parallels is selected for the highest magnetic transfer and is cast integrally with aluminum.

ORDER NO.	WEIGHT KGS	CODE NO.
VCP-1	1.3	2015-401
VCP-2	1.2	2015-402
VCP-3	1.4	2015-403
VCP-4	2.5	2015-404



# Magnetic Transisting Block Set

ORDER NO.VCP-6 CODE NO.2015-410  
WEIGHT:4.2 kgs



Non-magnetic laminated plates and blocks are extras to increase the versatility of chucks. These plates and blocks offer excellent guidance of the magnetic force, and can be used in combination with chucks as 'extensions' for the clamping of workpieces of complex shapes.

**BOXED SET**  
Comprises a selected set of 4 pairs of blocks

NO. of Blocks	STYLE	LxHxWxPCS	USED MODEL
1Pair		60x35x15x2	VCP-0
2Pair		100x50x25x2	VCP-1
1Pair		49.5x58x45.5	VCP-2



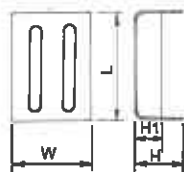
# Magnetic Adjustable Link

ORDER NO.VCP-5 CODE NO.2015-420  
WEIGHT:0.8 kg



- ◆ Each block 2"x1"x1".Length overall: 4<sup>1</sup>/<sub>8</sub>". width over all 2<sup>1</sup>/<sub>8</sub>".
- ◆ For Holding and welding.
- ◆ Magnetic blocks can be set at any angle by adjustment and locking of the wing nut. When used in multiples, a number of sheets can be held in complicated arrangement.
- ◆ Compact in size for holding work in confined spaces.

# Magnetic Steel Sheet Separator



## APPLICATION

- Suitable for separating a pile of thin iron plates or for chips separation.

## FEATURES

- By the principle of mutual repulsion between same magnetic poles, this item enable easy separation of thin iron plates.
- Also useful for chips separation on the small conveyer belt.



Unit:mm

ORDER NO.	DIMENSION				NET WEIGHT KGS	CODE NO.
	L	W	H	H1		
VCP-10	130	130	65	35	2.6	2015-430
VCP-11	210	155	65	35	4.2	2015-431

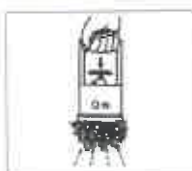
MAGNETIC TOOLS

# Magnetic Chip Collector

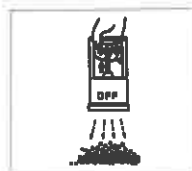


## APPLICATION

- You can use it in a wide range of fields for machining, casting food chemical processing, etc.
- Most suitable for collecting iron pieces scattered on the floor or mixed in the medium, for putting in order, and holding the work at the buffing and other types of operations. This is conveniently applied to uses in selecting and collecting iron powder and granule materials; even for house-hold and educational uses.



Magnet turned ON attracts Powerfully.



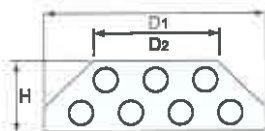
Magnet turned OFF Releases by Piling Up Lever.

## FEATURES

- Magnetic force is turned ON/OFF just by operating the level lightly with a hand.
- Powerful magnet ensure very strong adsorptive force with wide attractive face.

ORDER NO.	Dimension	Holding Mass	Weight kgs	CODE NO.
VCP-15	ø112x178H	0.9	1.9	2015-440

# Magnetic Separating Bar Unit



Magnetic Separating Bar Unit made with Powerful magnet. It is essential to increase operation efficiency in removing substances from powder and grain materials, as in the industries of chemical, various and plastic...etc.

A wide range of applications and easy to mount.

TEMPERATURE LIMIT 60°C

Unit:mm

ORDER NO.	D1	D2	H	BAR TUBE	WEIGHT KGS	CODE NO.
VMS-7B	175	112	75	ø22.2x180	2.4	2015-450
VMS-9B	218	156	75	ø22.2x230	3.8	2015-451

VMS-9B

VMS-7B

BAR TUBE



# Permanent-Electro Magnetic Chuck



Suitable for Milling

Mag. Power 1000 kgs / 100 cm<sup>2</sup>

**NEW**



## 5 SIDES MACHINING

### CONTROLLER TYPE:

- ✳ C1 for VPE-2540, 2560, 2580, 3030, 3040, 3060, 4040  
44x40x33cm WEIGHT Kgs: 11Kgs
- ✳ C2 for VPE-25100, 3080, 3090, 4060, 4080, 5060  
44x40x33cm WEIGHT Kgs: 11Kgs
- ✳ C4 for VPE-40100, 5080, 50100, 60100  
52x40x40cm WEIGHT Kgs: 12Kgs



SETS CONTROLLER INCLUDED

optional:



VSB- 49X48X30 mm  
SPRING BLOCK



VTJ- 50X50X32.5 mm  
MAGNETIC TRANSISTING  
SOFT JAW

ORDER NO.	ACCESSORIES	SIZE	WEIGHT KGS	CODE NO.
VSB-	SPRING BLOCK	49x48x30 mm	0.5	2033-450
VTJ-	MAGNETIC TRANSISTING SOFT JAW	50x50x32.5 mm	0.59	2033-451

## FEATURES

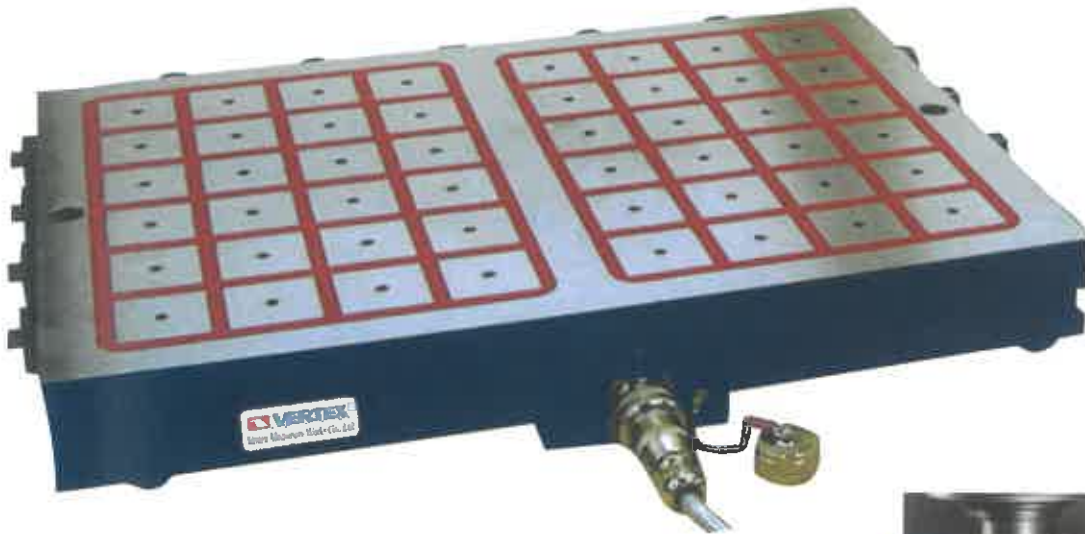
- Ensure higher magnetic and mechanical performances, as well as absolute reliability.
- Owing to no power supply to keep the magnetic chuck ON, it could be used for long time and never get temperature to affect the accuracy of workpiece. "COLD" device, not subject to internal wear or deformation resulting from moving internal parts.
- Easy and convenient to clamp a workpiece, shortens clamping time.
- Most suitable for heavy duty machining on medium, large or even rough components.
- Easily integrated with Pallet Change of Horizontal Machining Center and FMS System the Magnetic Chucks will be as geometrically stable as the table itself.
- For the most powerful machine tools available. Systems are switched ON or OFF with simple electrical pulse. A variable output from 20%-100% is controlled from the operator push button unit.
- Entirely independent of external power supply when holding work pieces. There is no risk, when power fails.
- 2 seconds control for power ON & OFF. No electric Power Supply required to keep the magnetic chuck ON. Safety in case of power failure.
- 10mm MIN. Thin workpiece & MIN. 4 block magnetic pole for workpiece.
- Every work piece need 3 transisting soft jaw to stabilize holding power.
- Spring block has 2.5mm displacement up & down.



# Permanent-Electro Magnetic Chuck



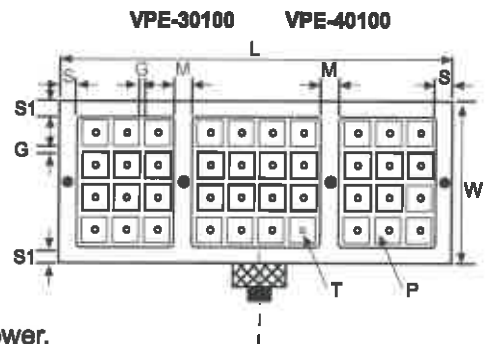
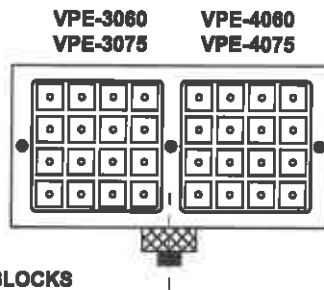
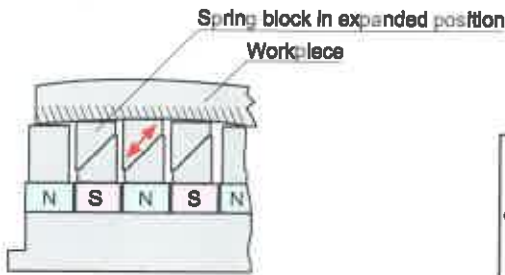
Suitable for Milling



MAGNETIC PLATE

**STRONG CLAMPING FORCE, FAST SETTING, HIGH SAFETY**

※ Recommend voltage : 380V 3PH



MAGNETIC FORCE 1000 KGS / 100 cm<sup>2</sup>

MAGNETIC FORCE 1000 KGS / 100 CM<sup>2</sup> / 4 SQUARE BLOCKS

※ Item / workpiece must cover at least 3 - 4 blocks to have enough holding power.

ORDER NO.	DIMENSION							PITCH G	POLE P	No. of POLE	VOLTAGE	AMP	CHUCK N.W	CONTROLLER		CODE NO.
	W	L	S	S1	M	T	HIGHT							TYPE	N.W.	
VPE-2540	240	430			--				18	18	50				2033-030	
VPE-2560	240	590			30				24	24	69	C1			2033-031	
VPE-2580	240	800			30				30	30	92				2033-032	
VPE-25100	240	990			30				42	40	111	C2			2033-033	
VPE-3030	300	310			--				16	16	44				2033-048	
VPE-3040	300	430			--				24	24	61	C1			2033-049	
VPE-3060	300	590			30				32	35	82		10		2033-050	
VPE-3080	300	810			30				44	32	116				2033-051	
VPE-3090	300	870	30	25	30	M8	60	10	50X50	40	123	C2			2033-051A	
VPE-30100	300	990			30				56	35	138				2033-052	
VPE-4040	420	430			--				36	18	84	C1			2033-052A	
VPE-4060	420	590			30				48	25	116	C2			2033-053	
VPE-4080	420	810			30				66	30	159	C2			2033-054	
VPE-40100	420	990			30				84	45	193	C4			2033-055	
VPE-5060	480	590			30				56	28	129	C2		15	2033-060	
VPE-5080	480	800			30				70	35	185				2033-061	
VPE-50100	480	990			30				98	50	219	C4			2033-062	
VPE-80100	800	990			30				126	28	274				2033-063A	

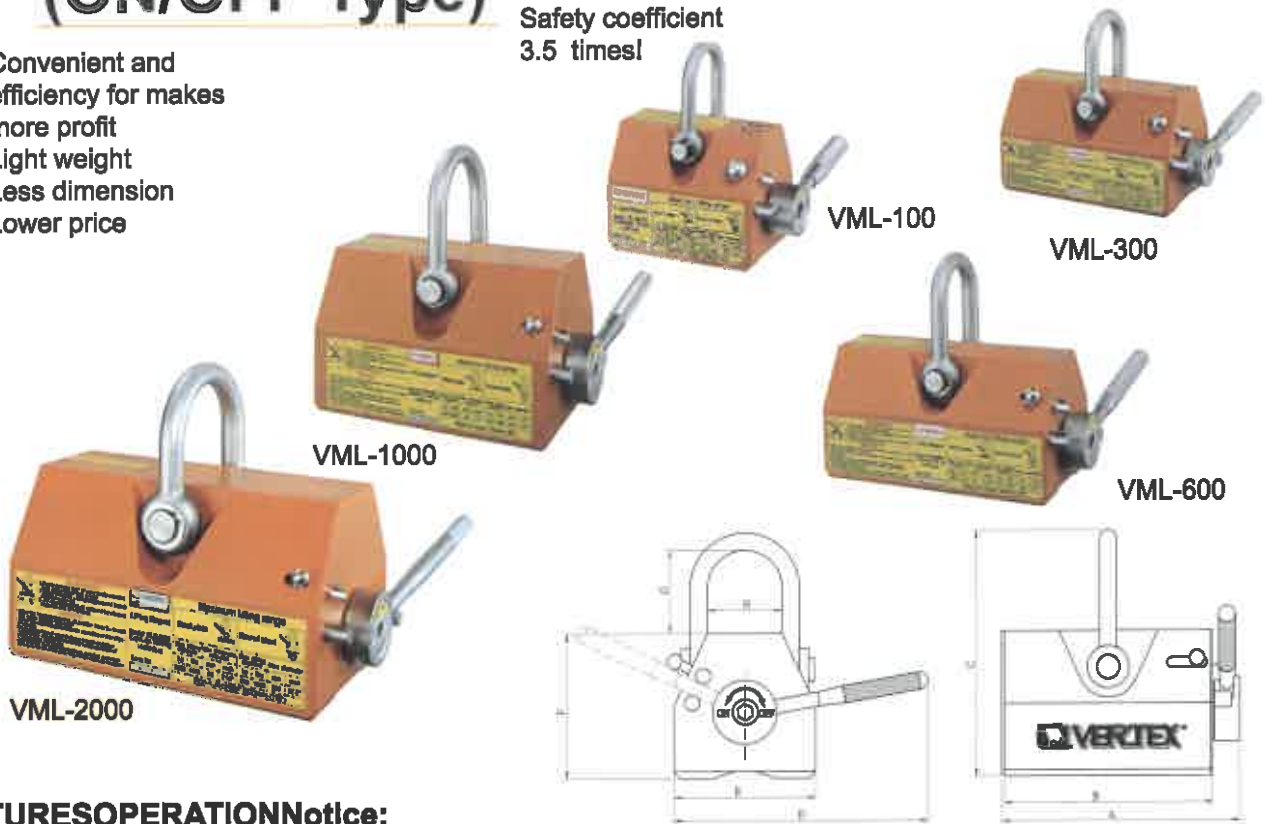


# Permanent Magnetic Lifter (ON/OFF Type)



Convenient and efficiency for makes more profit  
Light weight  
Less dimension  
Lower price

Safety coefficient  
3.5 times!



## FEATURES OPERATION Notice:

- Each size suit for plate type & round type steel using.
- All new models with "light weight" less dimension" and "lower price".
- Made by permanent magnet, require no power supply, thus eliminating hazards due to failure wiring system as electric type.
- It features powerful magnetic force, with 3.5 times safety coefficient makes more safety in use.

## OPERATION

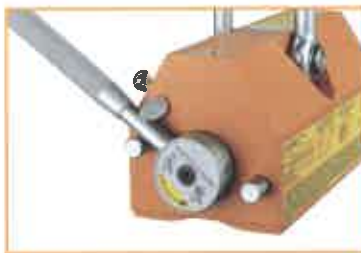
With ON/OFF switch, it is very easy and convenient to operate.  
See as the example pictures as below

## Notice:

Never moves the handle to "ON" side, except on an iron object of holding.

- Never operate over human's head.

**ON**



**OFF**



## DIMENSIONS

ORDER NO.	Capacity	A	B	C	D	E	F	G	H	Weight	SAFETY COEFFICIENT	CODE NO.
	kg lbs	mm inch	mm inch	mm inch	mm inch	mm inch	mm inch	mm inch	mm inch	kg lbs		
VML-100	100 220	107 4.2	84 3.3	120 4.7	125 4.9	60 2.4	71 2.8	41 1.6	30 1.2	2.7 5.5	x3.5 times	2018-060
VML-300	300 660	180 7.1	155 6.1	156 6.1	185 7.3	90 3.6	93 3.7	51 2.0	41 1.6	9.1 18.9		2018-061
VML-600	600 1320	255 10	224 8.8	212 8.3	260 10.2	115 4.5	120 4.7	77 3.0	52 2.0	21.5 46		2018-062
VML-1000	1000 2200	280 11	245 9.6	286 11.3	371 14.6	165 6.5	169 6.7	97 3.8	87 3.4	53.4 101		2018-063
VML-2000	2000 4400	422 16.6	380 15	348 13.7	512 20.2	216 8.5	215 8.5	105 4.1	121 4.8	127.8 259		2018-064





# Permanent Magnetic Lifter (ON/OFF Type)



## APPLICATIONS

- Suitable for move plate steel, block steel and round steel, such as machine parts, press molds, plastic molds and iron material .....etc.



MAGNETIC LIFTER

## LOAD OF HOLDING POWER

- The load of holding power will changes depending on the thickness, attractive face roughness and quality of material and clearance between the workpiece with magnet.

	Thickness		Percentage of lifting capacity					
	mm	Inch	VML-3000	VML-2000	VML-1000	VML-600	VML-300	VML-100
T1	up 60	up 2.36	100%	100%	100%	100%	100%	100%
T2	55	2.16"	95%					
T3	50	1.97"	90%					
T4	45	1.77"	85%					
T5	40	1.57"	80%	85%	90%	90%	90%	
T6	35	1.38"	70%	75%				
T7	30	1.18"	60%	65%	80%	90%	90%	
T8	25	0.98"	50%	55%	70%			
T9	20	0.79"	40%	45%	60%	75%	90%	
T10	15	0.59"	30%	35%	50%	60%	70%	
T11	10	0.39"	20%	25%	35%	45%	50%	70%
T12	5	0.20"	10%	15%	20%	25%	30%	40%

Table of difference in holding power by attractive face roughness For all models

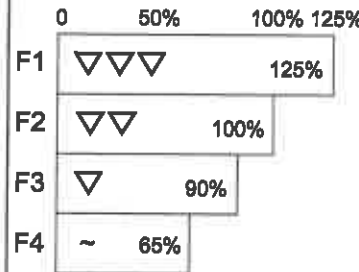
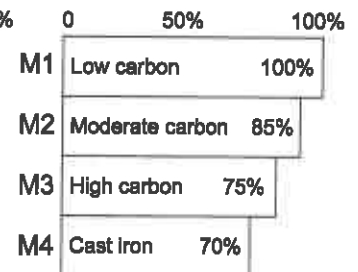


Table of difference in holding power by material quality For all models



Calculating Formula for "Range of Lifting Capacity" → (Tx Fx Mx Capacity of Lifter)

Example:

Terms of workpiece: T8, F1 and M2

90% x 125% x 85% x 600kgs (VML-600)=573kgs

## SAFETY COEFFICIENT x 3.5 times

The capacity of magnet indicated as 1/3.5 of holding power, it means the real holding power is 3.3 times of capacity. For example the capacity of VML-600 is 600kgs (1320lbs) but the real holding power is 1980kgs (4350lbs).

The large safety coefficient is consideration for ensuring the use in safety.

## MAXIMUM LIFTING RANGE

FORM OF MATERIAL	STEEL PLATE		ROUND STEEL			Maximum length
	Max.lifting capacity	Min.thickness required	Max.lifting capacity	Min Dia	Max.diameter	
ORDER NO.	kg lbs	mm Inch	kg lbs	mm inch	mm inch	mm Inch
VML-100	100 220	15 0.59"	45 99	80	150 5.9"	1000 40"
VML-300	300 660	25 0.98"	135 300	100	250 9.8"	1500 60"
VML-600	600 1320	30 1.18"	270 600	180	350 13.8"	2000 80"
VML-1000	1000 2200	40 1.57"	450 990	230	450 17.8"	2500 98"
VML-2000	2000 4400	55 2.16"	900 1980	260	550 21.6"	3000 118"
VML-3000	3000 6600	60 2.36"	1350 2970	300	650 25.6"	3500 138"



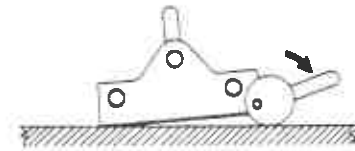
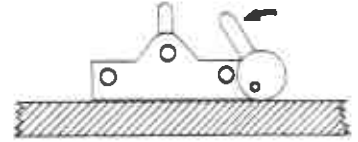
## CAM TYPE

### FEATURES

- Normal operation is not influenced on power off or system breakdown, as there is permanent magnet.
- Cam mechanism, easy operation.
- Ground surface of workpiece may be attracted to be scrap occasionally, please be careful.

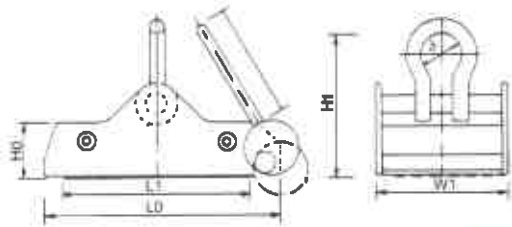
### LOADING

- Take the magnetic table on the workpiece, and move it at the vertical position.



### UNLOADING

- Move the level at the horizontal position, the workpiece will be separated.



- Never operate over human's head.

ORDER NO.	CAPACITY	W1	L1	L0	H0	H1	d	l	NET WEIGHT (KGS)	CODE NO.
VGP-100	1000kg	204	298	366	65	125	50	135	25.8	2018-040
VGP-200	2000kg	330	380	445	130				46.8	2018-041

## HANDLE TYPE

### FEATURES

- Work is held and released very smoothly.
- Most suitable to move materials or semi-finished products such as black steel plate, flat iron and other materials etc.

### HOLDING POWER

It depends on the attractive face, quality and thickness of material and clearance between the material and magnet.

### MAXIMUM HOLDING POWER

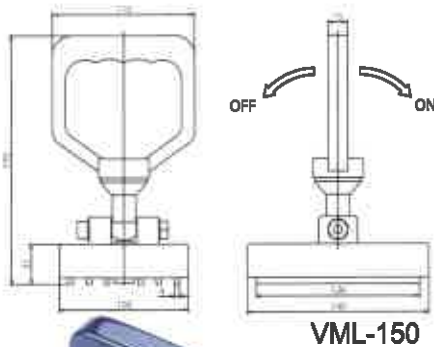
Workpiece must be thick enough and the surface must be free of dust. magnetic attraction is best and with low carbon-soft steels.



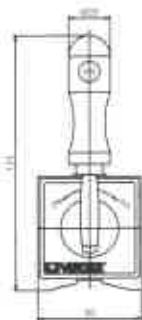
VML-80



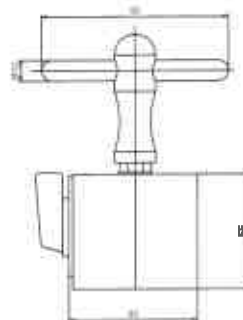
VML-140



VML-150



VML-80



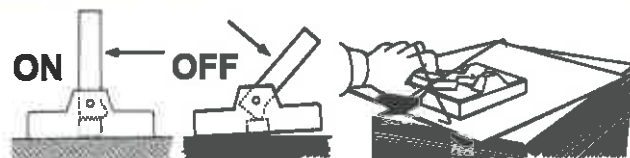
VML-140

Unit:mm

ORDER NO.	CAPACITY	L	W	H	N.W (KGS)	CODE NO.
VML-80	80kgf	60	50	55	1.23	2018-054
VML-140	140kgf	120	50	55	2.2	2018-055
VML-130	130kgf	120	50	55	1.9	2018-053
VML-150	150kgf	140	100	192	2.5	2018-056

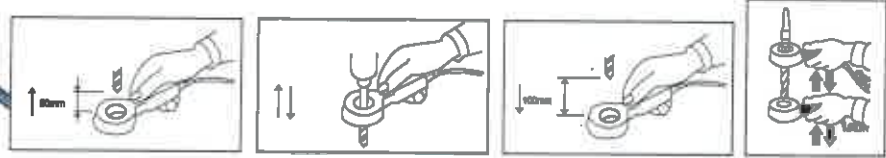


VML-150





- Suit for drill, end mill, hard ware, cutting tool...etc.
- Handy type, It can also use the cutting tool.
- ※ Guaranteed for 3 months.



ORDER NO.	INPUT VOLTAG	CURRENT	POWER	DUTY CYCLE	HOLE CAPACITY	WEIGHT KGS	CODE NO.
VDM-40	AC110V/220V	0.5A	80W	20%	Ø40MM	1.3	2019-030

**NEW**



- Suit for molding.
- Work perfectly in the narrow place.
- No need to remove the workpiece.

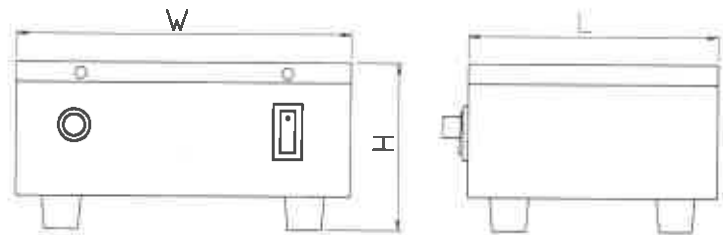


**Handy Type**  
**For Bigger Or Heavy Workpiece**  
 ※ Light Duty Only  
 ※ Guaranteed for 3 months.  
 ※ Built-in over-heat safety Stop

ORDER NO.	INPUT VOLTAGE (SINGLE PHASE)	CURRENT	※ USING TIME	DIMENSION			WEIGHT KGS	CODE NO.
				L	M	H		
VDM-50	110V/220V/1PH	1.2A	Demagnetize 1 minute waiting 4 minutes	345	35	25	1.2	2019-031

# Demagnetizer

Demagnetizer one way only



## FEATURES

- Suitable for general component spare parts, attachments, tools, etc, for fixed demagnetization.
- Suitable for longtime use; be able to use continuously for 24 hours. Rest 10 Min Per 3 hrs.
- With the design of double coils inside to avoid heat release.
- ※ Guaranteed for 3 months.
- ※ If operate ←→ will cause item magnetized

## DELUXE TYPE

ORDER NO.	INPUT VOLTAGE	CAPACITY	DUTY CYCLE	DIMENSION			NW KGS	CODE NO.
				L	W	H		
VDM-68	110V/220V	AC-330VA	100%	140	195	110	7.4	2019-001

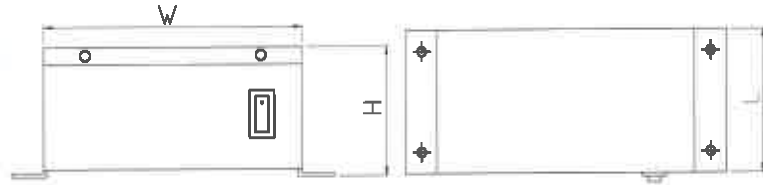
Unit:mm

## FEATURES

- Input voltage 110-220 Volts AC.
- With On-Off switch.
- Quickly Demagnetizes tools, drills punches, dies, etc. Held by magnetic chucks. Parts are demagnetized by drawing across surface.
- Voltage 200-240 should be ordered.
- ※ Guaranteed for 3 months.



VDM-8, 11



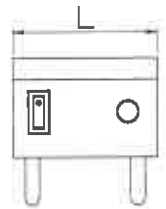
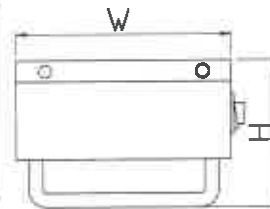
Unit:mm

ORDER NO.	INPUT VOLTAGE	CAPACITY	WORKING SURFACE	HEIGHT	WEIGHT (KGS)	DUTY CYCLE	CODE NO.
VDM-8	110V AC-220V	210VA	180X110	100	4.5	50%	2019-011
VDM-11	110V 220V	550VA	200X280	130	16	100%	2019-021

# Mini Type Demagnetizer

## FOR HANDY AND CAN NOT BE MOVED OBJECT

- Suitable for large type workpiece.
- ※ Guaranteed for 3 months.



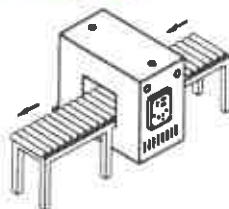
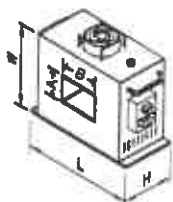
Unit:mm

ORDER NO.	INPUT VOLTAGE	CAPACITY	WORKING SURFACE	HEIGHT	WEIGHT (KGS)	DUTY CYCLE	CODE NO.
VDM-9	AC-110V 220V	110VA	123X83	83	1.8	90%	2019-020

# Tunnel Type Demagnetizer And Magnetizer

## FEATURES

- Merely using tools to pass through or move into a tunnel will cause a good demagnetizing effect.
- Suitable for planned automatic process; be adapted for delivery belts to proceed in order to increase productivity.
- Suitable for hand manual tools, etc. for filling magnetism.
- Suitable for large production of component spare parts, attachments, tools...etc.
- Suitable for longtime use; be able to use continuously for 24 hours.
- Super efficacy in demagnetizing and magnetizing; suitable for many kinds of metals.
- Attached a fan inside for dissipating heat.
- ※ Guaranteed for 3 months.



ORDER NO.	POWER SOURCE	CAPACITY	DIMENSION			THROUGH HOLE		NET WEIGHT KGS	DUTY CYCLE	CODE NO.
			L	W	H	A	B			
VDM-150	AC 220/380V (single phase)	3520AV	370	370	200	100	150	33	100%	2019-025
VDM-250		4840AV	470	370	200	150	250			52
VDM-450	AC 220/380V (3 phase)	4400VA	700	500	200	250	450	80		2019-027

# Chip Collector Mini Handy Type

**NEW**



- Pull the trigger to drop attracted items easily.
- Permanent magnet.
- Light and handy design fitting ergonomics.
- Easy to pick up various kinds of hand of hand tools and small iron or steel parts for office, house and factory.
- Impact-proof plastic materials.
- ※ Need normal work temp

ORDER NO.	PACKING	HOLDING MASS	CUFT	DIMENSION			WEIGHT KGS	CODE NO.
				L	W	H		
VCC-16	Color BOX	0.65	0.09'	110	110	190	0.7	2019-040

Unit:mm

CHIP COLLECTOR

# Chip Collector With Adjustable Arm Type

**NEW**



- Work perfectly in the narrow space.
- Pick up ferrous metal items such as tools, bolt, paper clips, nails, etc.
- Deluxe handle for comfort.
- Easy to use, safe, practical and time saving.
- Permanent magnet.
- Weight : 2 kgs

ORDER NO.	MAGNETIC BASE	HOLDING MASS	CUFT	TOTAL LENGTH	CODE NO.
VCC-17A	120x70mm	0.7	0.4'	700 mm	2019-041A

# Chip Collector With Wheels

**NEW**



- Easy to use, safe and practical time saving device.
- Release magnetic pick up tool has a magnetic device which enable to attract any metal items and spare parts laying on the floor without the trouble to pick them up one by one.
- Pull the trigger to release magnetic force.
- Permanent magnet.

ORDER NO.	PACKING	HOLDING MASS	kgf	CUFT	LENGTH	WEIGHT KGS	TOTAL WIDTH	CODE NO.
VCC-19	In Bulk	0.85	83	1.15'	720~1035mm	1.5	377 mm	2019-043

# Chip Collector With Flexible Arm

Flexible Magnetic Pick-Up Tool  
WEIGHT:0.4kg

**NEW**



ORDER NO.	VCC-20
PACKING	Tied On Card
HOLDING MASS	0.11
CUFT	0.04'
LENGTH	533 mm
CAPACITY	1.2 lbs / 0.54kgs / 50kgf
CODE NO.	2019-044

# Chip Collector With LED

Lighted Flexible Magnetic Pick-Up Tool  
WEIGHT:0.2kg

**NEW**



ORDER NO.	VCC-21
PACKING	Tied On Card
HOLDING MASS	0.08
CUFT	0.04'
LENGTH	533 mm
CAPACITY	0.7 lbs / 0.31kgs / 30kgf
CODE NO.	2019-045

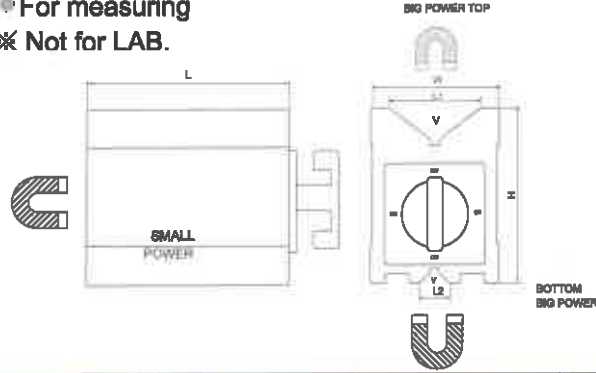
With 2pc 1.5V batteries

# Magnetic V Block



1 PCS

- For round / square workpiece
- For checking on surface plate during the production.
- For measuring
- ※ Not for LAB.

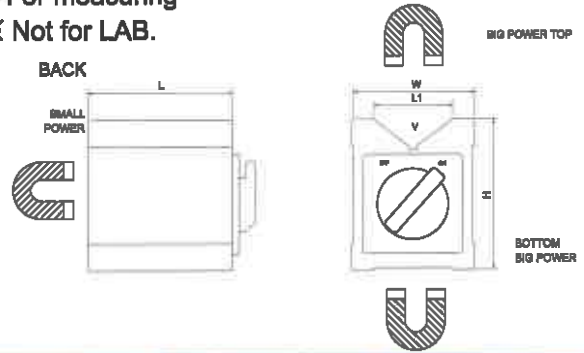


ORDER NO.	Magnetic Power(pull)	V	v	Dimension					Wt. kgs	CODE NO.
				H	W	L	L1	L2		
VCP-25	70kgf	ø7~ø60	ø7~ø25	95.3 3.75"	70 2.76"	101.6 4"	45 1.97"	18 0.75"	3.9	2015-501

# Magnetic V Block

1 PCS

- For round / square workpiece
- For checking on surface plate during the production.
- For measuring
- ※ Not for LAB.



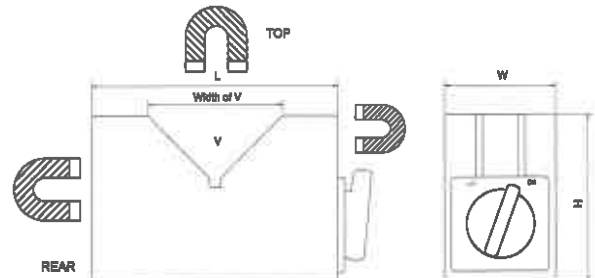
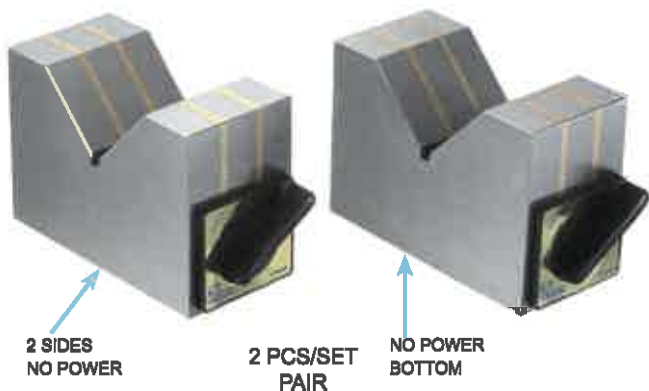
ORDER NO.	Magnetic Power(pull)	V	Dimension				Wt. kgs	CODE NO.
			H	W	L	L1		
VCP-26	50kgf	ø8~ø50	73 2.87"	60 2.13"	70 2.76"	37 1.5"	1.8	2015-510
VCP-27	70kgf	ø8~ø50	73 2.87"	60 2.36"	125 4.29"	38 1.5"	3.3	2015-511

# Magnetic V Block

PAIR

## Magnetic V-Block

- Two pieces finished to the same dimension and accuracy are used together as a set.
- For round / square workpiece
- For checking on surface plate during the production.
- ※ Not for LAB.

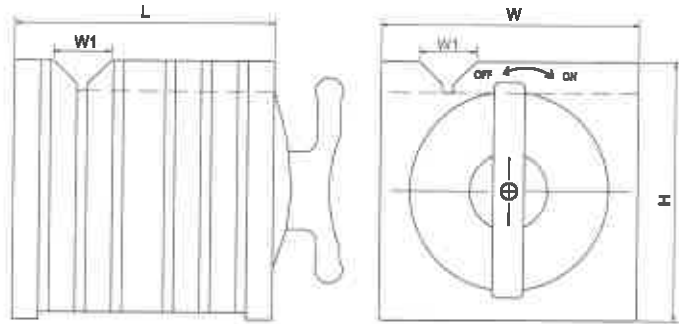
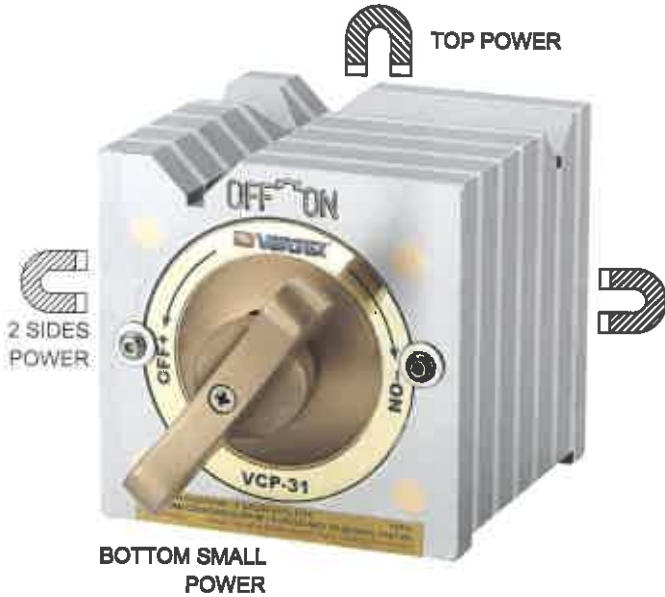


ORDER NO.	Magnetic Power(pull)	V	Dimension			Width of V	Wt. kgs	CODE NO.
			H	W	L			
VCP-29	17kgf	ø8~ø80	74 2.91"	48 1.77"	110 4.33"	60 2.36"	4.9	2015-521
VCP-30	23kgf	ø8~ø120	100 3.94"	50 1.97"	150 5.91"	90 3.54"	8.9	2015-522

# Magnetic Square Block



FOR MEASURING



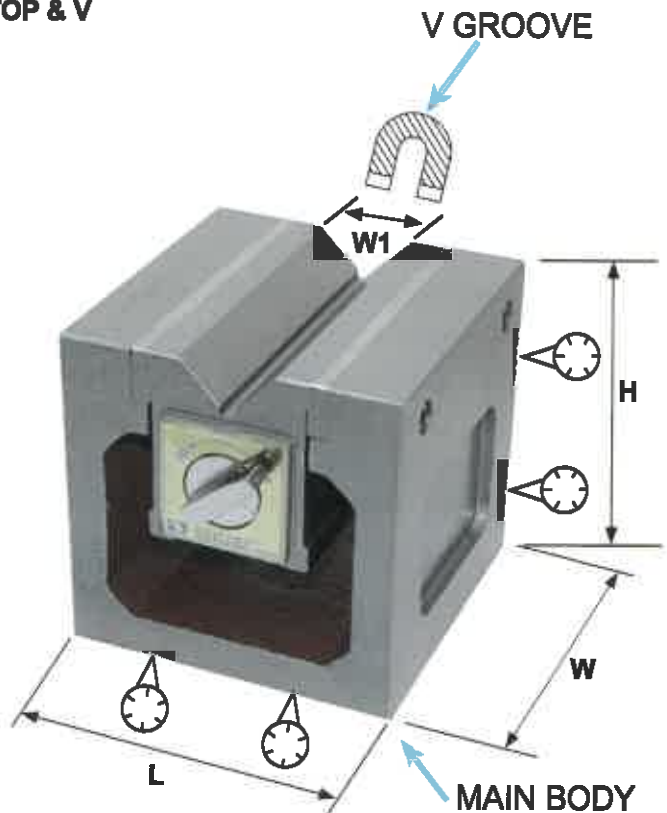
MAGNETIC BLOCK

- ◆ The V-Blocks and Parallels transfer the magnetism from permanent magnetic chucks.
- The steel used in all V-Blocks and Parallels is selected for the highest magnetic transfer and is cast integrally with aluminum.
- For measuring
- ※ Not for LAB.

ORDER NO.	Mag. Power of V groove	Mag. Power of base	V	H	W	L	W1	Wt. kgs	CODE NO.
VCP-31	25kgf	50kgf	ø7~ø32	100 3.94"	100 3.94"	100 3.94"	23 1.02"	6.5	2015-530
VCP-32	50kgf	140kgf	ø8~ø42	150 5.91"	150 5.91"	150 5.91"	29 1.26"	23	2015-531

# Magnetic Square Holder

NEW

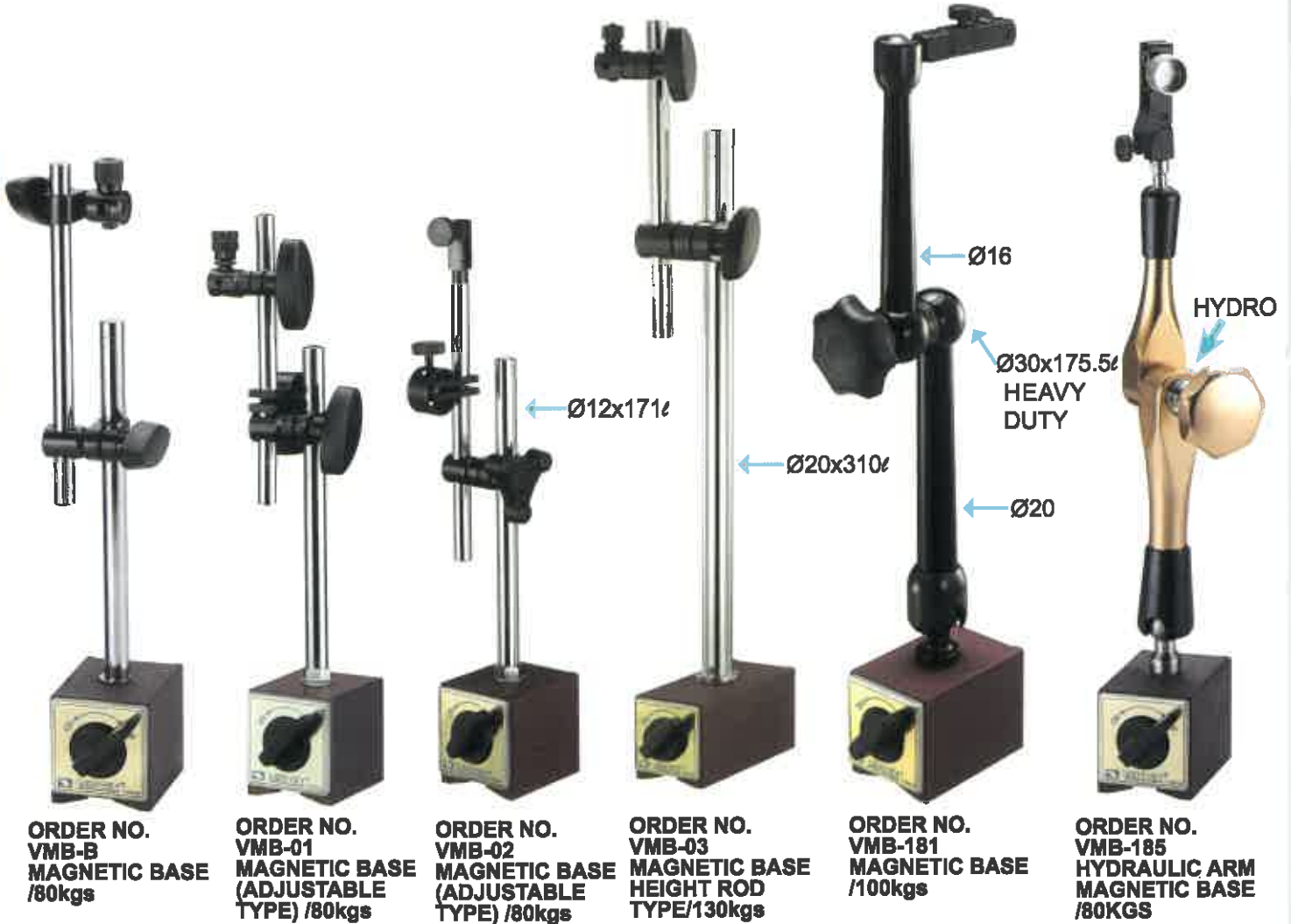


- ◆ Precision ground
- ◆ Base & V groove parallism : 0.02 / 100 mm
- ◆ Magnetic power : V groove only
- ◆ MAIN BODY : CAST IRON
- ◆ Light duty, for measuring
- ◆ Easy movement
- ◆ Multi - type
- ※ Not for LAB.

ORDER NO.	Mag. Power of V groove	V	H	W	L	W1	Wt. kgs	CODE NO.
VCP-40	70kgf	ø8~ø50	125	125	125	37	8.54	2015-540



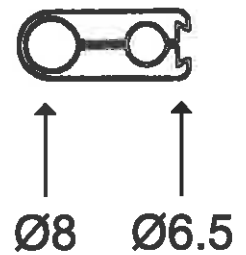
## FIXED ARM TYPE VMB-B,01,02 THE DIAL CLAMP HOLE Ø6.5 & Ø8



※knob may vary & shpe & color



- If you would like to turn around the ARM of VMB series, don't rotate the ARM directly, because the thread in the base will be disintegrated, please loose the knob first (in the middle of ARM), then the ARM will be rotated, thanks! After you set the position, Fix the Knob.
- Before you set the new position, you must loose the knob. Hold at the connection between Rod & Base to prevent thread breaking.



ORDER NO.	BASE SIZE LXWXH(MM)	HOLDING POWER	MAIN ROD O.D X L	SUB ROD O.D X L	WEIGHT (KGS)	CODE NO.
VMB-B	60X50X55	80KGS	Ø12X173	Ø10X162	1.6	2015-601
VMB-01	60X50X55	80KGS	Ø12X176	Ø10X150	1.6	2015-602
VMB-02	60X50X55	80KGS	Ø12X171	Ø10X153	1.6	2015-603
VMB-03	115X50X55	130KGS	Ø20X310	Ø14X200	3.9	2015-607
VMB-181	73x50x55	100KGS	Ø30X175.5	Ø21x137	1.9	2015-609A
VMB-185	73x50x55	100KGS	Ø31X124.5	Ø28x113	2.0	2015-609B



**UNIVERSAL ARM TYPE VMB-70,106,106H WITHOUT DIAL  
THE DIAL CLAMP HOLE Ø6.5 & Ø8**



ORDER NO. VMB-70  
DELUXE UNIVERSAL  
MAGNETIC BASE /100kgs



ORDER NO. VMB-106  
MECHANICAL ARM  
MAGNETIC BASE /100kgs



ORDER NO. VMB-106H  
HYDRAULIC ARM  
MAGNETIC BASE /100kgs



ORDER NO. VMB-160  
W/O DIAL INDICATOR

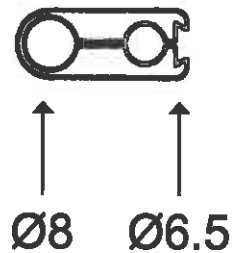


ORDER NO. VMB-180  
W/O DIAL INDICATOR

MAGNETIC TOOLS

※knob may vary  
& shpe & color

- If you would like to turn around the ARM of VMB series, don't rotate the ARM directly, because the thread in the base will be disintegrated, please loose the knob first (in the middle of ARM), then the ARM will be rotated, thanks! After you set the position, Fix the Knob.
- Before you set the new position, you must loose the knob. Hold at the connection between Rod & Base to prevent thread breaking.
- Hold the Mag. Base while moving & lifting



ORDER NO.	BASE SIZE LXWXH(MM)	HOLDING POWER	MAIN ROD O.D X L	SUB ROD O.D X L	WEIGHT (KGS)	CODE NO.
VMB-70	73X50X55	100KGS	Ø25X128	Ø25X116	1.7	2015-604
VMB-106	73X50X55	100KGS	Ø25X125	Ø25X125	1.9	2015-605
VMB-106H	75X50X55	100KGS	Ø25X125	Ø25X125	2.2	2015-606
VMB-160	70x46x60	100KGS	Ø16x230	Ø16x260	2.1	2015-608
VMB-180	75x60x80	100KGS	Ø20x412	Ø16x250	3.8	2015-609

MICRO ADJUSTMENT

W/O MICRO ADJUSTMENT



ORDER NO. VMF-112  
MINI MAGNETIC  
BASE

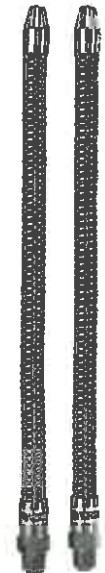
ORDER NO. VMF-113  
MINI MAGNETIC  
BASE

VMF-102A

VMF-102B

ORDER NO. VMF-102A/B  
MINI DELUXE UNIVERSAL  
MAGNETIC BASE  
SUITABLE FOR EDM USING.

ORDER NO. VH-70  
MINI MAGNETIC  
BASE  
ROUND BASE OR  
SQUARE BASE



※knob may vary  
& shpe & color

ORDER NO. VMS-1/4  
ORDER NO. VMS-3/8  
STEEL HOSE WITH  
NOZZLE

ORDER NO.	BASE SIZE LXWXH(MM)	HOLDING POWER	MAIN ROD O.D X L	SUB ROD O.D X L	WEIGHT (KGS)	CODE NO.
VMF-112	34.5X30X35	30KGS	Ø20 X 70	Ø15 X 65	0.6	2015-619
VMF-113	34.5X30X35	30KGS	Ø20 X 70	Ø15 X 65	0.55	2015-619A
VH-70	31X31X32	15KGS	Ø10 X 70	Ø6 X 90	0.4	2015-620
VMF-102A	34.5X30X35	30KGS	Ø20 X 70	Ø20 X 65	0.57	2015-621A
VMF-102B	Ø31X31H	30KGS	Ø20 X 70	Ø15 X 65	0.5	2015-621B
VMS-1/4			Ø11 X 320	HOSE THREAD 1/4	0.2	2015-640
VMS-3/8			Ø15 X 370	HOSE THREAD 3/8	0.4	2015-641



**ORDER NO. VMB-06**  
**FLEXIBLE ARM**  
**WITH MAGNETEC BASE**

**ORDER NO. VML-A**  
**MAGNETIC BASE**  
**WORKING BEAM**  
 \*FOR 20W/40W/60W 110V  
 \*FOR 20W/40W/60W 220V

**ORDER NO. VML-B**  
**MAGNETIC BASE**  
**WORKING BEAM**  
 \*FOR 20W/40W/60W 110V  
 \*FOR 20W/40W/60W 220V

**ORDER NO. VML-C**  
**MAGNETIC BASE**  
**WORKING BEAM**  
 \*FOR 20W/40W/60W 110V  
 \*FOR 20W/40W/60W 220V

\*knob may vary  
 & shpe & color

- If you would like to turn around the ARM of VMB series, don't rotate the ARM directly, because the thread in the base will be disintegrated, please loose the knob first (in the middle of ARM), then the ARM will be rotated, thanks!  
 After you set the position, Fix the Knob.  
 Before you set the new position, you must loose the knob.  
 Hold at the connection between Rod & Base to prevent thread breaking.
- Hold the Mag. Base while moving & lifting

ORDER NO.	BASE SIZE LXWXH(MM)	HOLDING POWER	MAIN ROD O.D X L	WEIGHT (KGS)	CODE NO.
VMB-06	60X50X55	80KGS	Ø16X208	1.6	2015-610
VML-A	60X50X55	80KGS	Ø20X200	1.5	2015-611
VML-B	60X50X55	80KGS	Ø26X200	1.5	2015-612
VML-C	60X50X55	80KGS	Ø20X460	2.2	2015-616



**ORDER NO. VMB-00**  
MAGNETIC BASE ONLY  
M8X1.25p,80kgs



**ORDER NO. VMB-09**  
MAGNETIC BASE ONLY  
M8X1.25p,80kgs



**ORDER NO. VMB-10**  
MAGNETIC BASE ONLY  
M8X1.25p,100kgs



without dial gauge

**ORDER NO. VTB-120**  
TESTER ARM BASE  
please see page B81

Enlarge about : 2X



**ORDER NO. VML-M**  
MAGNETIC BASE WITH  
MAGNIFYING GLASS  
M8X1.25p,80kgs



**ORDER NO. VMB-11**  
MAGNETIC BASE ONLY  
M8X1.25p,140kgs



**ORDER NO. VMB-12**  
WHEEL DRESSER  
CLAMP HOLE 12MM  
WITHOUT DIAMOND  
DRESSER PEN

- If you would like to turn around the ARM of VMB series, don't rotate the ARM directly, because the thread in the base will be disintegrated, please loose the knob first (in the middle of ARM), then the ARM will be rotated, thanks!

After you set the position, Fix the Knob.

Before you set the new position, you must loose the knob.

Hold at the connection between Rod & Base to prevent thread breaking.

※knob may vary  
& shpe & color

- Hold the Mag. Base while moving & lifting

ORDER NO.	BASE SIZE LXWXH(MM)	HOLDING POWER	MAIN ROD O.D X L	WEIGHT (KGS)	CODE NO.
VMB-00	60X50X55	80KGS		1.1	2015-613
VMB-09	34.5X30X35	30KGS		0.2	2015-646
VMB-10	73X50X55	100KGS		1.25	2015-645
VMB-11	117X50X55	140KGS		2.1	2015-614
VMB-12	60X50X55	80KGS		1.1	2015-615
VML-M	60X50X55	80KGS	Ø15X325	1.7	2015-617
VTB-120	Ø120		Ø25 X 125	2.65	2022-015



**ORDER NO. VMH-54  
(2 HOSE)  
MAGNETIC BASE  
WITH HOSE NOZZLE**

**ORDER NO. VMH-62  
(3 HOSE)  
MAGNETIC BASE  
WITH HOSE NOZZLE**



**ORDER NO. VMH-63  
(1 HOSE)  
MAGNETIC BASE  
WITH STEEL NOZZLE**



**ORDER NO. VMH-64  
(2 HOSE)  
MAGNETIC BASE  
WITH STEEL NOZZLE**



**ORDER NO. VMH-65  
(3 HOSE)  
MAGNETIC BASE  
WITH STEEL NOZZLE**

\*knob may vary  
& shpe & color

● Hold the Mag. Base while moving & lifting

ORDER NO.	BASE SIZE LXWXH(MM)	HOLDING POWER	MAIN ROD O.D X L	SUB ROD O.D X L	WEIGHT (KGS)	CODE NO.
VMH-54	60X50X55	80KGS	Ø16 X 330	2PCS.HOSE	1.4	2015-622
VMH-62	60X50X55	80KGS	Ø16 X 330	3PCS.HOSE	1.5	2015-623
VMH-63	60X50X55	80KGS	Ø11 X 330	1PCS.HOSE	1.6	2015-642
VMH-64	60X50X55	80KGS	Ø11 X 330	2PCS.HOSE	2	2015-643
VMH-65	60X50X55	80KGS	Ø11 X 330	3PCS.HOSE	2.2	2015-644

# Thin Round Magnet



NEW



VMH-D13, D30



VMH-T66, T80

- For Basic light Mag. force
- To combine with other tool
- To remove light weight iron object.
- I.D. Ø M6.6 / M8
- Can serve as hanger.



Unit : mm

ORDER NO.	HOLDING POWER	ØD	THICKNESS	WEIGHT (kg)	CODE NO.
VMH-D13	13 kgf	66	10.5	0.16	2015-711
VMH-D30	30 kgf	80	13.0	0.34	2015-712
VMH-T66	13 kgf	66	10.5	0.16	2015-716
VMH-T80	30 kgf	80	13.0	0.34	2015-717

# Round Magnet Holder

NEW



VMD-R30



VMD-R50



VMD-S14



VMD-S20



- For Basic light Mag. force
- To combine with other tool
- To remove light weight iron object.
- Support for positioning
- Magnetic force only work on the bottom.

※Every magnet need to work under 70°C

ORDER NO.	HOLDING POWER	DIMENSIONS	TAPPER HOLE	WEIGHT (KGS)	CODE NO.
VMD-R18	18 kgf	Ø 30 x 25	M6	0.12	2015-721
VMD-R30	30 kgf	Ø 40 x 30	M8	0.26	2015-722
VMD-R50	50 kgf	Ø 50 x 40	M8	0.54	2015-723
VMD-S14	14 kgf	26 x 26 x 25	-	0.12	2015-724
VMD-S20	20 kgf	26 x 60 x 25	M6	0.28	2015-725

**NEW**



\*knob may vary & shpe & color

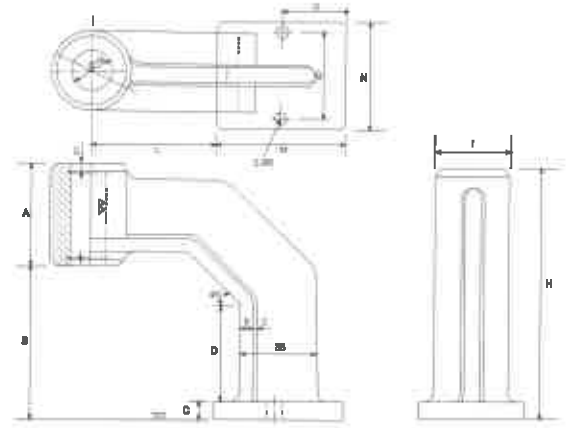
Cost higher



Example.



- MAX. stroke 60 mm
- Suit for large workpiece
- TAP thread capacity M3-M12
- Magnetic force 80 kgf
- Horizontal / Vertical
- Portable
- Great for machine case & thin plate tapping job.
- TAP & Iron piece not included.



Unit : mm

ORDER NO.	A	B	C	D	H	I	L	M	N	O	WEIGHT (kgs)	CODE NO.
VTM-13	50	72	10	45	122	36	60	60	50	30	3.10	2015-731

MAGNETIC TAPPER

# Magnetic Clamp



## Welder's Magnetic Ground Clamp

Heavy-duty steel housing holds a powerful magnet for fast, yet safe ground.  
Ground wire will rotate 360° for easy access.  
Equipped with a spring-loaded brass electrode, the magnetic ground clamps attach securely direct to work surface.

ORDER NO.	MASS	CUFT	L x W x H	WEIGHT (kg)	CODE NO.
VCC-30	10kgs	0.07'	70 x 52 m/m	0.48	2033-220
VCC-31	5.6kgs	0.05'	49 x 40 m/m	0.12	2033-221

# Magnetic Quick Clamp



XL



L



M

ORDER NO.	SIZE	PACKING	MASS	CUFT	DIMENSION			WEIGHT (kg)	CODE NO.
					L	W	H		
VCC-33	M	Sliding Card	26kgs	0.03'	120	82	14	0.32	2033-223
VCC-34	L	Sliding Card	25kgs	0.03'	158	102	19	0.68	2033-224
VCC-35	XL	Sliding Card	10kgs	0.05'	202	128	21	1.13	2033-225



# Multi-Function Mist Coolant System



ORDER NO.VCS-500 CODE NO.2015-700  
WEIGHT:0.8kg

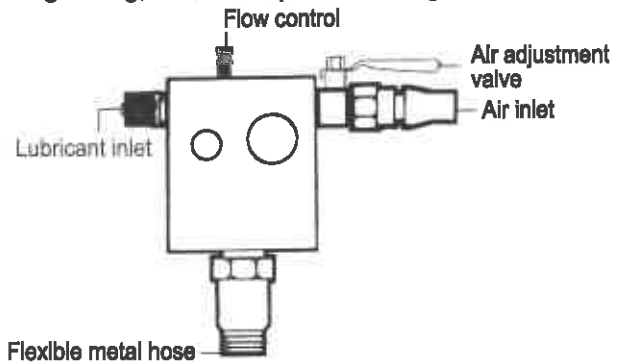


## FEATURES

- Flexible functions as cooling, lubrication and blowing the metal chips can be performed at the same time.
- Designed and manufactured for improving machinability, cutting speed, and extending tool service life, Saving working time and production cost.
- It insures better quality of parts finishing and cutting performance.
- The unit help to creat micro-finish effect even working on tough alloy steels and exotic metals.

This mist coolant systems are suited to fit on lathe, milling, drilling, tapping, grinding, cutter grinding, NC, CNC, press, sawing machine.....

## EXAMPLE



# Mist Coolant With Magnetic Base

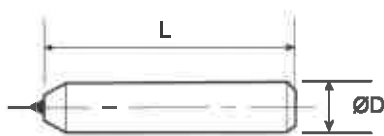


ORDER NO. VMH-71 (1 HOSE)  
MAGNETIC BASE WITH  
MIST COOLANT SYSTEM

ORDER NO.	BASE SIZE LXWXH(MM)	HOLDING POWER	MAIN ROD O.D X L	SUB ROD O.D X L	WEIGHT (kgs)	CODE NO.
VMH-71	62X50X55.5	75KGS	Ø15X500	1PCS.HOSE	2	2015-618

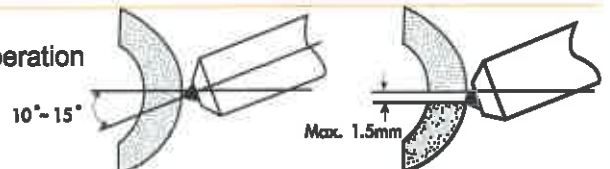


# Diamond Dressing Tools



DRESSING PEN

Installation And Operation



## SINGLE POINT DIAMOND DRESSERS

ORDER NO.	ØD x L	DIAMOND SIZE. wt.(cts.)	For Grinding Wheels Size(mm)	CODE NO.
VDR-1010	Ø10D x 80L	0.20	Ø150 x 25 or smaller	2015-665
VDR-1012	Ø12D x 100L	0.20	Ø150 x 25 or smaller	2015-666
VDR-3310	Ø10D x 80L	0.75	Ø150 ~ Ø300 x 25	2015-667
VDR-3312	Ø12D x 100L	0.75	Ø150 ~ Ø300 x 25	2015-668
VDR-5010	Ø10D x 80L	1.0	Ø300 ~ Ø450 x 25~40	2015-669
VDR-5012	Ø12D x 100L	1.0	Ø300 ~ Ø450 x 25~40	2015-670



# Adjustable Magnetic Nozzle Kit



- The adjustable magnetic nozzle is suitable for cooling and lubricating in machining process.
- Can be prolonged the cutter life and advance the accuracy and beauty of workpiece.
- By different of usage, there are much models for selection.
- Machine tool made by customer's specification and cooperated to develop.
- When using, please take out the spacer (under the magnetic base)



ORDER NO.	Weight	CODE NO.
CL-01	0.3kgs	2015-624
CL-02		2015-625
CL-03		2015-626
CL-01A		2015-627
CL-02A		2015-628
CL-03A		2015-629
S-1	0.2kgs	2015-630
L2-S	0.5kgs	2015-631

COOLANT NOZZLE

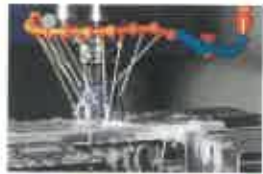
## Adjustable Coolant Hose



- 4 kinds of orifice inner diameter are available: 1/4", 3/8", 1/2", and 3/4".
- Adjustable Coolant Hose is highly pliable; it holds its shape well and will not spring back.
- Made of Dupont 100P material, this highly rigid yet resilient acetal (POM) is strongly resistant to oils and chemicals.
- Adjustable Coolant Hose will not damage cutting blade if there were accident contact.
- Adjustable Coolant Hose does not conduct electricity and is good for operating on electrical discharge machine (EDM).
- Bending hose will not reduce inner diameter, hose will not pinch or fatigue.
- Adjustable Coolant Hose is designed for the transport of low-pressure fluids.

### List of suitable fluids

Ordinary Adjustable Coolant Hoses are manufactured from acetal (POM), Hose is available in dark blue and orange colors.



ITEM	SUITABLE	UNSUITABLE
ALCOHOLS, ETHYL	○	
ACIDS		×
ACETONE	○	
BASES, STRONG		×
AMMONIUM HYDROXIDE (STRONG)		×
COMMERCIAL DISH DETERGENTS	○	
GASOLINE	○	
GREASES	○	
HYPOCHLORITE LON SOLUTIONS		×
LACQUER SOLVENTS	○	
OILS	○	
SODIUM HYDROXIDE	○	
SODIUM HYPOCHLORITE		×
INSECTICIDES	○	
BRAKE OILS	○	



### Caution:

our materials are good with alcohols, ethyl, acetone, commercial dish detergents, gasoline, greases, lacquer solvents, oils, sodium hydroxide, insecticides, and brake oils. Not good for acids, bases, strong, ammonium hydroxide(strong), Hypo-chlorite Lon solutions, sodium Hypochlorite. Use inappropriate liquids may cause damage.





## CODE NO. & DESCRIPTION

## FIGURE

### 1/4" VALVE & HOSE KIT

**62220**

33CM Length Hose Kit

Assembled with:

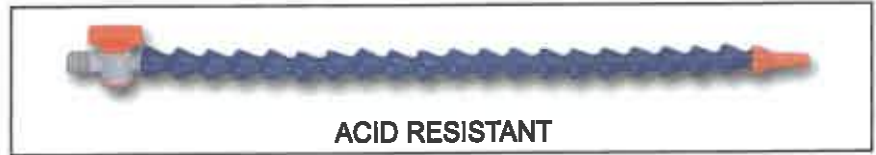
1-Acid Resistant 1/4" Male NPT Valve

1-20 Element Segments

1-(1/16" or 1/8" or 1/4") Round Nozzle

**ORDER NO. VHK-1/4A**

**CODE NO.2016-001**



**62720**

33CM Length Hose Kit

Assembled with:

1-1/4" Male NPT Valve

1-20 Element Segments

1-(1/16" or 1/8" or 1/4") Round Nozzle

**ORDER NO. VHK-1/4**

**CODE NO.2016-002**



### 3/8" VALVE & HOSE KIT

**63320**

36CM Length Hose Kit

Assembled with:

1-Acid Resistant 3/8" Male PT Valve

1-16 Element Segments

1-(1/4" or 3/8" or 1/2") Round Nozzle

**ORDER NO. VHK-3/8A**

**CODE NO.2016-003**



**63720**

36CM Length Hose Kit

Assembled with:

1-3/8" Male PT Valve

1-16 Element Segments

1-(1/4" or 3/8" or 1/2") Round Nozzle

**ORDER NO. VHK-3/8**

**CODE NO.2016-004**



### 1/2" VALVE & HOSE KIT

**64420**

33CM Length Hose Kit

Assembled with:

1-Acid Resistant 1/2" Male NPT Valve

1-12 Element Segments

1-(1/4" or 3/8" or 1/2") Round Nozzle

**ORDER NO. VHK-1/2A**

**CODE NO.2016-005**



**64720**

33CM Length Hose Kit

Assembled with:

1-1/2" Male NPT Valve

1-12 Element Segments

1-(1/4" or 3/8" or 1/2") Round Nozzle

**ORDER NO. VHK-1/2**

**CODE NO.2016-006**



### 3/4" VALVE & HOSE KIT

**66720**

44CM Length Hose Kit

Assembled with:

3/4" Male PT or NPT Valve

**ORDER NO. VHK-3/4**

**CODE NO.2016-007**



## 1/4" INSIDE DIAMETER

### FIG. ITEM NO. DESCRIPTION

	<b>V-82020</b>	1/4" Hose Kit 33 CM Length with Fittings: 2-14 CM Segments 1/16", 1/8", 1/4" Nozzles 1/4" & 1/8" Male PT connectors <small>CODE NO.2016-101</small>
	<b>V-82020A</b>	1/4" Hose Kit 33 CM Length with Fittings: 2-14 CM Segments 1/16", 1/8", 1/4" Nozzles 1/4" & 1/8" Male NPT connectors <small>CODE NO.2016-102</small>
	<b>V-82220</b>	1/4" Extend Element Kit with Element Clamps Includes 4 each of: 1/4" Extended Elements 1/4" Element Clamps <small>CODE NO.2016-103</small>
	<b>V-82021</b>	1/4" Segment pack (2-14CM 20pcs) <small>CODE NO.2016-104-1</small>
	<b>V-82051</b>	1/4" 1524 CM coil <small>CODE NO.2016-104-2</small>
	<b>V-82071</b>	1/4" 2500 Cm coil <small>CODE NO.2016-104-3</small> Weight : 0.00177kg
	<b>V-62423</b>	1/4" Circle Flow Nozzle Kit Assembled with 15 Slide Flow Nozzles 1/4" & 1 End Cap 1/4" <small>CODE NO.2016-105</small>
	<b>V-82221</b>	1/4" Extended Elements, pack of 4 <small>CODE NO.2016-105</small>
	<b>V-82241</b>	1/4" Extended Elements, pack of 20 Weight : 0.00841kg <small>CODE NO.2016-107</small>
	<b>V-82222</b>	1/4" Element Clamps, pack of 4 <small>CODE NO.2016-105</small>
	<b>V-82242</b>	1/4" Element Clamps, pack of 20 Weight : 0.00265kg <small>CODE NO.2016-109</small>
	<b>V-82326</b>	1/4" 90° Nozzle Kit 1 Each: 1/16", 1/8", 1/4" & Spray Bar Nozzles <small>CODE NO.2016-110</small>
	<b>V-82022</b>	1/16" Round Nozzles Pack of 4 <small>CODE NO.2016-111</small>
	<b>V-82042</b>	1/16" Round Nozzles Pack of 50 <small>CODE NO.2016-112</small> Weight : 0.0018kg
	<b>V-82023</b>	1/8" Round Nozzles Pack of 4 <small>CODE NO.2016-113</small>
	<b>V-82043</b>	1/8" Round Nozzles Pack of 50 <small>CODE NO.2016-114</small> Weight : 0.00195kg
	<b>V-82024</b>	1/4" Round Nozzles Pack of 4 <small>CODE NO.2016-115</small>
	<b>V-82044</b>	1/4" Round Nozzles Pack of 50 <small>CODE NO.2016-116</small> Weight : 0.00288kg
	<b>V-82223</b>	1/16" 90° Nozzles, pack of 4 <small>CODE NO.2016-117</small>
	<b>V-82243</b>	1/16" 90° Nozzles, pack of 20 <small>CODE NO.2016-118</small> Weight : 0.00158kg
	<b>V-82224</b>	1/8" 90° Nozzles, pack of 4 <small>CODE NO.2016-119</small>
	<b>V-82244</b>	1/8" 90° Nozzles, pack of 20 <small>CODE NO.2016-120</small> Weight : 0.00183kg

### FIG. ITEM NO. DESCRIPTION

	<b>V-82225</b>	1/4"90° Nozzles, pack of 4 <small>CODE NO.2016-121</small>
	<b>V-82245</b>	1/4"90° Nozzles, pack of 20 Weight : 0.00236kg <small>CODE NO.2016-122</small>
	<b>V-82226</b>	1/4"90° Spray Bar Nozzles, pack of 2 <small>CODE NO.2016-123</small>
	<b>V-82246</b>	1/4"90° Spray Bar Nozzles, pack of 20 Weight : 0.00285kg <small>CODE NO.2016-124</small>
	<b>V-82017</b>	3/8"Flat Nozzles, pack of 2 <small>CODE NO.2016-125</small>
	<b>V-82037</b>	3/8"Flat Nozzles, pack of 20 Weight : 0.00202kg <small>CODE NO.2016-126</small>
	<b>V-82027</b>	1"Flare Nozzles, pack of 2 <small>CODE NO.2016-127</small>
	<b>V-82047</b>	1"Flare Nozzles, pack of 20 Weight : 0.00288kg <small>CODE NO.2016-128</small>
	<b>V-82025</b>	1/8"PT Connectors pack of 4 <small>CODE NO.2016-129</small>
	<b>V-82035</b>	1/8"-PT Connectors pack of 50 Weight : 0.00232kg <small>CODE NO.2016-130</small>
	<b>V-82025A</b>	1/8"NPT Connectors pack of 4 <small>CODE NO.2016-131</small>
	<b>V-82035A</b>	1/8"NPT Connectors pack of 50 Weight : 0.0023kg <small>CODE NO.2016-132</small>
	<b>V-82026</b>	1/4"PT Connectors pack of 4 <small>CODE NO.2016-133</small>
	<b>V-82036</b>	1/4"PT Connectors pack of 50 Weight : 0.00259kg <small>CODE NO.2016-134</small>
	<b>V-82026A</b>	1/4"NPT Connectors pack of 4 <small>CODE NO.2016-135</small>
	<b>V-82036A</b>	1/4"NPT Connectors pack of 50 Weight : 0.00267kg <small>CODE NO.2016-136</small>
	<b>V-82028</b>	1/4"Y Fitting Pack of 2 <small>CODE NO.2016-137</small>
	<b>V-82038</b>	1/4"Y Fitting Pack of 20 <small>CODE NO.2016-138</small> Weight : 0.00289kg
	<b>V-82011</b>	1/4"Double Sockets, pack of 4 <small>CODE NO.2016-139</small>
	<b>V-82031</b>	1/4"Double Sockets, pack of 20 Weight : 0.00177kg <small>CODE NO.2016-140</small>
	<b>V-82012</b>	1/4"Socket to 1/8" NPTF, pack of 4 <small>CODE NO.2016-141</small>
	<b>V-82032</b>	1/4"Socket to 1/8" NPTF, pack of 20 Weight : 0.00287kg <small>CODE NO.2016-142</small>
	<b>V-82013</b>	3/8"SAE Flare Nut Adapters, pack of 4 <small>CODE NO.2016-143</small>
	<b>V-82033</b>	3/8"SAE Flare Nut Adapters, pack of 20(5/8-18 Thread) <small>CODE NO.2016-144</small> Weight : 0.00397kg
	<b>V-82014</b>	1/4"SAE Flare Nut Adapters, pack of 4 <small>CODE NO.2016-145</small>
	<b>V-82034</b>	1/4"SAE Flare Nut Adapters, pack of 20 (7/16-20 Thread) <small>CODE NO.2016-146</small> Weight : 0.00167kg
	<b>V-62420</b>	1/4"Elbow Fittings pack of 2 <small>CODE NO.2016-147</small>
	<b>V-62430</b>	1/4"Elbow Fittings pack of 20 <small>CODE NO.2016-148</small> Weight : 0.00242kg
	<b>V-62426</b>	1/4" T Fitting pack of 2 <small>CODE NO.2016-149</small>
	<b>V-62436</b>	1/4" T Fitting pack of 20 <small>CODE NO.2016-150</small> Weight : 0.00375kg
	<b>V-62422</b>	1/4" Side Flow Nozzles, pack of 4 <small>CODE NO.2016-151</small>
	<b>V-62442</b>	1/4" Side Flow Nozzles, pack of 20 Weight : 0.00275kg <small>CODE NO.2016-152</small>

### FIG. ITEM NO. DESCRIPTION

	<b>V-62424</b>	1/4"End Caps, pack of 4 <small>CODE NO.2016-153-1</small>
	<b>V-62444</b>	1/4"End caps, pack of 20 Weight : 0.00191kg <small>CODE NO.2016-153-2</small>
	<b>V-82228</b>	1/4"Swivel Nozzle 40, pack of 2 <small>CODE NO.2016-154</small>
	<b>V-82248</b>	1/4"Swivel Nozzle 40, pack of 20 Weight : 0.00875kg <small>CODE NO.2016-155</small>
	<b>V-82229</b>	1/4"Swivel Nozzle 60, pack of 2 <small>CODE NO.2016-156</small>
	<b>V-82249</b>	1/4"Swivel Nozzle 60, pack of 20 Weight : 0.00845kg <small>CODE NO.2016-157</small>
	<b>V-82721</b>	1/4"NPT Male Hose Nipple Valves pack of 2 <small>CODE NO.2016-158</small>
	<b>V-82731</b>	1/4"NPT Male Hose Nipple Valves pack of 10 Weight : 0.0078kg <small>CODE NO.2016-159</small>
	<b>V-82722</b>	1/4"Connection Valves, pack of 2 <small>CODE NO.2016-162</small>
	<b>V-82732</b>	1/4"Connection Valves, pack of 10 Weight : 0.00893kg <small>CODE NO.2016-163</small>
	<b>V-82522</b>	Acid Resistant 1/4"Connection Valves, pack of 2 <small>CODE NO.2016-164</small>
	<b>V-82532</b>	1/4"Connection Valves, pack of 10 Weight : 0.00702kg <small>CODE NO.2016-165</small>
	<b>V-82723</b>	1/4"Male PT Valves, pack of 2 <small>CODE NO.2016-166</small>
	<b>V-82733</b>	1/4"Male PT Valves, pack of 10 Weight : 0.0076kg <small>CODE NO.2016-167</small>
	<b>V-82523</b>	Acid Resistant 1/4"Male NPT Valves, pack of 2 <small>CODE NO.2016-168</small>
	<b>V-82533</b>	1/4"Male NPT Valves, pack of 10 Weight : 0.00774kg <small>CODE NO.2016-169</small>
	<b>V-82724</b>	1/4"Female PT Valves, pack of 2 <small>CODE NO.2016-170</small>
	<b>V-82744</b>	1/4"Female PT Valves, pack of 10 Weight : 0.00809kg <small>CODE NO.2016-171</small>
	<b>V-82524</b>	Acid Resistant 1/4"Female NPT Valves, pack of 2 <small>CODE NO.2016-172</small>
	<b>V-82534</b>	1/4"Female NPT Valves, pack of 10 Weight : 0.00836kg <small>CODE NO.2016-173</small>
	<b>V-82725</b>	1/4"Connection Check Valves,pack of 2 <small>CODE NO.2016-174</small>
	<b>V-82745</b>	1/4"Connection Check Valves,pack of 10 <small>CODE NO.2016-175</small> Weight : 0.00562kg
	<b>V-52400</b>	Modular Manifold System 1/4" 1/4"Elbow Fitting-1 pcs 1/4"Manifold Bracket-1 pcs 1/4"T Fittings-3 pcs 1/4"Mounting screw-3 pcs <small>CODE NO.2016-176</small> Weight : 0.0322kg
	<b>V-52410</b>	1/4"Main Flow Control Manifold System 1/4"Modular Manifold-1 pcs 1/4"Connection Valves-5 pcs <small>CODE NO.2016-177</small> Weight : 0.0675kg
	<b>V-52416</b>	1/4"Manifold Brackets pack of 2 <small>CODE NO.2016-178</small> Weight : 0.00973kg
	<b>V-26171</b>	1/4"Hose Assembly pliers <small>CODE NO.2016-179</small>

COOLANT HOSE

## 1/2" INSIDE DIAMETER










FIG.	ITEM NO.	DESCRIPTION	FIG.	ITEM NO.	DESCRIPTION	FIG.	ITEM NO.	DESCRIPTION
	V-84040	1/2" Hose Kit 33 CM Length with Fittings: 2-14 CM Segments 1/4", 3/8", 1/2" Nozzles 3/8", 1/2" Male PT connectors <small>CODE NO. 2016-201</small>		V-84445	1/2" 90° Nozzles, pack of 4 <small>CODE NO. 2016-221</small>		V-84626	1/2" T Fittings, pack of 2 <small>CODE NO. 2016-251</small>
	V-84040A	1/2" Hose Kit 33 CM Length with Fittings: 2-14 CM Segments 1/4", 3/8", Nozzles 3/8", 1/2" Male NPT connectors <small>CODE NO. 2016-202</small>		V-84465	1/2" 90° Nozzles, pack of 20 Weight : 0.00552kg <small>CODE NO. 2016-222</small>		V-84646	1/2" T Fittings, pack of 20 Weight : 0.0087kg <small>CODE NO. 2016-252</small>
	V-84440	1/2" Extended Element Kit with Element Clamps Includes 4 each of: 1/2" Extended Elements 1/2" Element Clamps <small>CODE NO. 2016-203</small>		V-84446	1/2" 90° Spray Bar, pack of 2 <small>CODE NO. 2016-223</small>		V-84622	1/2" Side Flow Nozzles, pack of 4 <small>CODE NO. 2016-253</small>
	V-84041	Segment pack (2-14 CM 12pcs) <small>CODE NO. 2016-204</small>		V-84466	1/2" 90° Spray Bar, pack of 20 Weight : 0.01033kg <small>CODE NO. 2016-224</small>		V-84642	1/2" Side Flow Nozzles, pack of 20 Weight : 0.0078kg <small>CODE NO. 2016-254</small>
	V-84081	1/2" 1524 CM coil <small>CODE NO. 2016-205</small>		V-84047	1 1/4" Flare Nozzles, pack of 2 <small>CODE NO. 2016-225</small>		V-84624	1/2" End caps, pack of 4 <small>CODE NO. 2016-255</small>
	V-84091	1/2" 2500 CM coil <small>CODE NO. 2016-206</small>		V-84067	1 1/4" Flare Nozzles, pack of 20 Weight : 0.00696kg <small>CODE NO. 2016-226</small>		V-84644	1/2" End caps, pack of 20 Weight : 0.00466kg <small>CODE NO. 2016-256</small>
	V-64643	1/2" Circle Flow Nozzle Kit Assembled with 15 Slide Flow Nozzles 1/2" & 1 End Cap 1/2" <small>CODE NO. 2016-207</small>		V-84050	1 3/4" Flare Nozzles, pack of 2 <small>CODE NO. 2016-227</small>		V-84722	1/2" connection Valves, pack of 2 <small>CODE NO. 2016-257</small>
	V-84441	1/2" Extended Elements, pack of 4 <small>CODE NO. 2016-208</small>		V-84070	1 3/4" Flare Nozzles, pack of 20 Weight : 0.0088kg <small>CODE NO. 2016-228</small>		V-84742	1/2" connection Valves, pack of 10 Weight : 0.02201kg <small>CODE NO. 2016-258</small>
	V-84461	1/2" Extended Elements, pack of 20 Weight : 0.01186kg <small>CODE NO. 2016-209</small>		V-84052	2 1/2" Flare Nozzles, pack of 2 <small>CODE NO. 2016-229</small>		V-84522	Acid Resistant 1/2" connection Valves, pack of 2 <small>CODE NO. 2016-259</small>
	V-84346	90° Nozzle Kit 1 Each: 1/4", 3/8", 1/2" & Spray Bar Nozzles <small>CODE NO. 2016-210</small>		V-84072	2 1/2" Flare Nozzles, pack of 20 Weight : 0.00922kg <small>CODE NO. 2016-230</small>		V-84542	Acid Resistant 1/2" connection Valves, pack of 10 Weight : 0.02227kg <small>CODE NO. 2016-260</small>
	V-84044	1/4" Round Nozzles, pack of 4 <small>CODE NO. 2016-211</small>		V-84046	3/8" PT Connectors pack of 4 <small>CODE NO. 2016-231</small>		V-84723	1/2" Male PT Valves, pack of 2 <small>CODE NO. 2016-261</small>
	V-84064	1/4" Round Nozzles, pack of 50 Weight : 0.00339kg <small>CODE NO. 2016-212</small>		V-84066	3/8" PT Connectors pack of 50 Weight : 0.0063kg <small>CODE NO. 2016-232</small>		V-84743	1/2" Male PT Valves, pack of 10 Weight : 0.02287kg <small>CODE NO. 2016-262</small>
	V-84042	3/8" Round Nozzles, pack of 4 <small>CODE NO. 2016-213</small>		V-84046A	3/8" NPT Connectors pack of 4 <small>CODE NO. 2016-233</small>		V-84523	Acid Resistant 1/2" Male NPT Valves, pack of 2 <small>CODE NO. 2016-263</small>
	V-84062	3/8" Round Nozzles, pack of 50 Weight : 0.0435kg <small>CODE NO. 2016-214</small>		V-84066A	3/8" NPT Connectors pack of 50 Weight : 0.00602kg <small>CODE NO. 2016-234</small>		V-84543	Acid Resistant 1/2" Male NPT Valves, pack of 10 Weight : 0.02308kg <small>CODE NO. 2016-264</small>
	V-84043	1/2" Round Nozzles, pack of 4 <small>CODE NO. 2016-215</small>		V-84045	1/2" Y Fittings pack of 4 <small>CODE NO. 2016-235</small>		V-84724	1/2" Female PT Valves, pack of 2 <small>CODE NO. 2016-265</small>
	V-84063	1/2" Round Nozzles, pack of 50 Weight : 0.0597kg <small>CODE NO. 2016-216</small>		V-84065	1/2" Y Fittings pack of 50 Weight : 0.00732kg <small>CODE NO. 2016-236</small>		V-84744	1/2" Female PT Valves, pack of 10 Weight : 0.02348kg <small>CODE NO. 2016-266</small>
	V-84443	1/4" 90° Nozzles, pack of 4 <small>CODE NO. 2016-217</small>		V-84045A	1/2" NPT Connectors pack of 4 <small>CODE NO. 2016-237</small>		V-84524	Acid Resistant 1/2" Female NPT Valves, pack of 2 <small>CODE NO. 2016-267</small>
	V-84463	1/4" 90° Nozzles, pack of 20 Weight : 0.0053kg <small>CODE NO. 2016-218</small>		V-84065A	1/2" NPT Connectors pack of 50 Weight : 0.00669kg <small>CODE NO. 2016-238</small>		V-84544	Acid Resistant 1/2" Female NPT Valves, pack of 10 Weight : 0.02286kg <small>CODE NO. 2016-268</small>
	V-84444	3/8" 90° Nozzles, pack of 4 <small>CODE NO. 2016-219</small>		V-84048	1/2" Y Fittings pack of 2 <small>CODE NO. 2016-239</small>		V-84725	1/2" connection Chuck Valves, pack of 2 <small>CODE NO. 2016-269</small>
	V-84464	3/8" 90° Nozzles, pack of 20 Weight : 0.00586kg <small>CODE NO. 2016-220</small>		V-84068	1/2" Y Fittings pack of 20 Weight : 0.0108kg <small>CODE NO. 2016-240</small>		V-84745	1/2" connection Chuck Valves, pack of 10 Weight : 0.00878kg <small>CODE NO. 2016-270</small>
	V-84013	1/4" SAE Flare Nut Adapters, pack of 4 <small>CODE NO. 2016-247</small>		V-84011	1/2" Double Sockets, pack of 4 <small>CODE NO. 2016-245</small>		V-54400	Modular Manifold System 1/2" 1/2"-Elbow Fitting-1 pcs 1/2"-Manifold Bracket- 1 pcs 1/2"-T Fittings-3 pcs 1/2"-Mounting screws- 3 pcs Weight : 0.0562kg <small>CODE NO. 2016-271</small>
	V-84033	1/4" SAE Flare Nut Adapters, pack of 20 (5/8-18 Thread) <small>CODE NO. 2016-248</small>		V-84031	1/2" Double Sockets, pack of 20 Weight : 0.00452kg <small>CODE NO. 2016-246</small>		V-54410	Main Flow Control Manifold System 1/2" 1-Modular Manifold 1/2" 5-Connection Valves 1/2" <small>CODE NO. 2016-272</small>
	V-64620	1/2" Elbow Fittings, pack of 2 <small>CODE NO. 2016-249</small>		V-84013	1/4" SAE Flare Nut Adapters, pack of 4 <small>CODE NO. 2016-247</small>		V-54416	1/2" Manifold Brackets of 2 <small>CODE NO. 2016-273</small>
	V-84640	1/2" Elbow Fittings, pack of 20 Weight : 0.00666kg <small>CODE NO. 2016-250</small>		V-26172	1/2" Hose Assembly pliers <small>CODE NO. 2016-274</small>			

# 3/8" System
















## 3/8" INSIDE DIAMETER

### FIG. ITEM NO. DESCRIPTION

	<b>V-83030</b>	3/8" Hose Kit 8 pcs of 3/8" Segment - 2 sets 3/8" Nozzles 3/8" Male PT connectors <small>CODE NO.2016-275</small>
	<b>V-83030A</b>	3/8" Hose Kit 8 pcs of 3/8" Segment - 2 sets 3/8" Nozzles 13/8" Male NPT connectors <small>CODE NO.2016-276</small>
	<b>V-83430</b>	3/8" Hose Kit 8 pcs of 3/8" Segment - 2 pcs 1/4", 3/8", 1/2" Nozzles 3/8" & 1/2" Male PT connectors <small>CODE NO.2016-277</small>
	<b>V-83430A</b>	3/8" Hose Kit 8 pcs of 3/8" Segment - 2 pcs 1/4", 3/8", 1/2" Nozzles 3/8" & 1/2" Male NPT connectors <small>CODE NO.2016-278</small>
	<b>V-83031</b>	3/8" Segment pack (2-14.5CM 8pcs) <small>CODE NO.2016-279</small>
	<b>V-83051</b>	3/8" 762 CM coil <small>CODE NO.2016-280</small>
	<b>V-83091</b>	3/8" 1524 CM coil Weight: 2.8kgs <small>CODE NO.2016-281</small>
	<b>V-83032</b>	1/4" Round Nozzles, Pack of 4 <small>CODE NO.2016-282</small>
	<b>V-83052</b>	1/4" Round Nozzles, Pack of 50 <small>CODE NO.2016-283</small>

### FIG. ITEM NO. DESCRIPTION

	<b>V-83033</b>	3/8" Round Nozzles, pack of 4 <small>CODE NO.2016-284</small>
	<b>V-83053</b>	3/8" Round Nozzles, pack of 50 Wight: 197.2g <small>CODE NO.2016-285</small>
	<b>V-83034</b>	1/2" Round Nozzles, pack of 4 <small>CODE NO.2016-286</small>
	<b>V-83054</b>	1/2" Round Nozzles, pack of 50 <small>CODE NO.2016-287</small>
	<b>V-83026</b>	1/4" PT Connector, pack of 4 <small>CODE NO.2016-288</small>
	<b>V-83046</b>	1/4" PT Connector, pack of 50 <small>CODE NO.2016-289</small>
	<b>V-83035</b>	3/8" PT Connector, pack of 4 <small>CODE NO.2016-290</small>
	<b>V-83055</b>	3/8" PT Connector, pack of 50 <small>CODE NO.2016-291</small>
	<b>V-83035A</b>	3/8" NPT Connector, pack of 4 <small>CODE NO.2016-292</small>
	<b>V-83055A</b>	3/8" NPT Connector, pack of 50 <small>CODE NO.2016-293</small>
	<b>V-83036</b>	1/2" PT Connector, pack of 4 <small>CODE NO.2016-294</small>
	<b>V-83056</b>	1/2" PT Connector, pack of 50 <small>CODE NO.2016-295</small>
	<b>V-83036A</b>	1/2" NPT Connector, pack of 4 <small>CODE NO.2016-296</small>
	<b>V-83056A</b>	1/2" NPT Connector, pack of 50 <small>CODE NO.2016-297</small>

### FIG. ITEM NO. DESCRIPTION

	<b>V-83037</b>	1 1/4" Flare Nozzles, pack of 2 <small>CODE NO.2016-298</small>
	<b>V-83057</b>	1 1/4" Flare Nozzles, pack of 20 <small>CODE NO.2016-299</small>
	<b>V-83723</b>	3/8" Male PT Valve, pack of 2 <small>CODE NO.2016-302</small>
	<b>V-83743</b>	3/8" Male PT Valve, pack of 10 Wight: 127g <small>CODE NO.2016-303</small>
	<b>V-83723A</b>	3/8" Male NPT Valve, pack of 2 <small>CODE NO.2016-304</small>
	<b>V-83743A</b>	3/8" Male NPT Valve, pack of 10 <small>CODE NO.2016-305</small>
	<b>V-83724</b>	3/8" Female PT Valve, pack of 2 <small>CODE NO.2016-306</small>
	<b>V-83744</b>	3/8" Female PT Valve, pack of 10 <small>CODE NO.2016-307</small>
	<b>V-83724A</b>	3/8" Female NPT Valve, pack of 2 <small>CODE NO.2016-308</small>
	<b>V-83744A</b>	3/8" Female NPT Valve, pack of 10 <small>CODE NO.2016-309</small>
	<b>V-26176</b>	3/8" Hose Assembly pliers <small>CODE NO.2016-310</small>

COOLANT HOSE

# 3/4" System

## 3/4" INSIDE DIAMETER


### FIG. ITEM NO. DESCRIPTION

	<b>V-86060</b>	3/4" Hose Kit 6 pcs of 3/4" Segment-2 sets 5/8" & 3/4" Nozzles 3/4" Male PT Connector <small>CODE NO.2016-400</small>
	<b>V-86060A</b>	3/4" Hose Kit 6 pcs of 3/4" Segment-2 sets 5/8" & 3/4" Nozzles 3/4" Male PT Connector <small>CODE NO.2016-401</small>
	<b>V-86061</b>	3/4" Segment Pack (2-15 CM 8pcs) <small>CODE NO.2016-402</small>
	<b>V-86081</b>	3/4" 1524 CM Coll <small>CODE NO.2016-403</small>
	<b>V-86091</b>	3/4" 2500 CM Coll <small>CODE NO.2016-404</small>
	<b>V-86063</b>	5/8" Round Nozzle, pack of 4 <small>CODE NO.2016-405</small>
	<b>V-86073</b>	5/8" Round Nozzle, pack of 50 <small>CODE NO.2016-406</small>
	<b>V-86062</b>	3/4" Round Nozzle, pack of 4 <small>CODE NO.2016-407</small>
	<b>V-86072</b>	3/4" Round Nozzle, pack of 50 <small>CODE NO.2016-408</small>
	<b>V-86064</b>	3/4" PT Connector pack of 4 <small>CODE NO.2016-409</small>
	<b>V-86074</b>	3/4" PT Nozzle, pack of 50 <small>CODE NO.2016-410</small>
	<b>V-86064A</b>	3/4" NPT Connector pack of 4 <small>CODE NO.2016-411</small>
	<b>V-86074A</b>	3/4" NPT Nozzle, pack of 50 <small>CODE NO.2016-412</small>

### FIG. ITEM NO. DESCRIPTION

	<b>V-86021</b>	3/4" Fixed Mount, pack of 2 <small>CODE NO.2016-413</small>
	<b>V-86022</b>	3/4" Magnetic Base, pack of 1 <small>CODE NO.2016-414</small>
	<b>V-86023</b>	Shield Mounting Elbow, pack of 2 <small>CODE NO.2016-415</small>
	<b>V-86067</b>	3" Flare Nozzle, pack of 2 <small>CODE NO.2016-416</small>
	<b>V-86077</b>	3" Flare Nozzle, pack of 20 <small>CODE NO.2016-417</small>
	<b>V-86068</b>	3/4" Y Fitting, pack of 2 <small>CODE NO.2016-418</small>
	<b>V-86078</b>	3/4" Y Fitting, pack of 20 <small>CODE NO.2016-419</small>
	<b>V-86069</b>	3/4" to 1/2" Y Reducer, pack of 2 <small>CODE NO.2016-420</small>
	<b>V-86079</b>	3/4" to 1/2" Y Reducer, pack of 20 <small>CODE NO.2016-421</small>
	<b>V-86051</b>	3/4" to 1/2" Adapter, pack of 2 <small>CODE NO.2016-422</small>
	<b>V-86071</b>	3/4" to 1/2" Adapter, pack of 20 <small>CODE NO.2016-423</small>
	<b>V-86011</b>	3/4" Double Socket, pack of 4 <small>CODE NO.2016-424</small>
	<b>V-86031</b>	3/4" Double Socket, pack of 20 <small>CODE NO.2016-425</small>

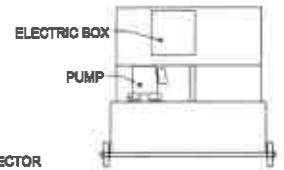
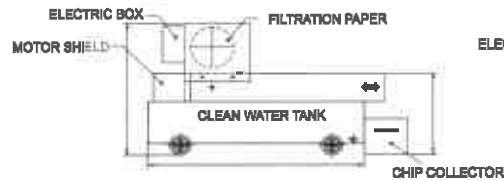
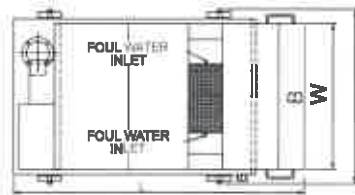
### FIG. ITEM NO. DESCRIPTION

	<b>V-26177</b>	3/4" Hose Assembly Pliers <small>CODE NO.2016-426</small>
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## FEATURES

- Applicable to both ferrous and non-ferrous metals.
- Filtration effect depends on paper accuracy. Use 50 $\mu$ , 30 $\mu$ , or 15 $\mu$ .
- Not suitable for heavy machining for the sake of paper consumption.
- To save filtration material, use magnetic filter for rough filtration.
- Standard accessory: one roll of paper.
- ※ Guaranteed for 3 months.



ORDER NO.	DISPOSAL CAPACITY L/MIN	WATER TANK CAPACITY	L	A	B	C	W	H	PUMP		PAPER MOTOR	PAPER	REMARKS	N.W (kgs)	GW (kgs)	CODE NO.
									HP	OUTLET						
PF-20	20	100 ℓ	1050	850	600	400	720	610	1/8	PF1/2"	25W	W:500MM L:90M	wheels attached	95	120	2020-001
PF-40	40	120 ℓ	1200	1000	600	400	720	660	1/8	PF1/2"	25W			130	150	2020-002
PF-60	60	140 ℓ	1350	1150	600	400	720	660	1/8	PF1/2"	25W			140	170	2020-003
PF-80	80	160 ℓ	1500	1300	600	400	720	660	1/4	PF3/4"	25W			170	190	2020-004
PF-120	120	210 ℓ	1500	1300	800	400	920	740	1/2	PF3/4"	40W	W:700MM L:90M	185	210	2020-005	
PF-160	160	260 ℓ	1800	1600	800	400	920	740	1/2	PF3/4"	40W		250	280	2020-006	

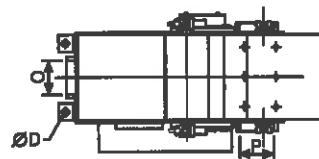
# Magnetic Separator

## FEATURES

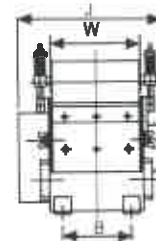
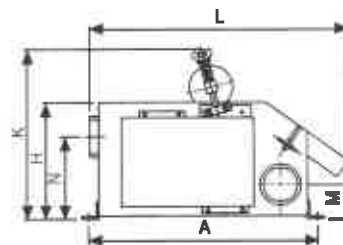
- Suitable in heavy machining for ferrous metal.
- No filtration-material consumption.
- Most economic in purchase & utilization cost.
- Able to serve rough filtration in other filtration process.
- Please notify volta & phase, when you ordering.
- ※ Guaranteed for 3 months.



MC-60



MC-20~160



Standard accessories

- a. Chip collector 1pc
- b. plugs 2pc
- c. Elbow 1pc
- d. Steel tubes 3pc

ORDER NO.	DISPOSAL CAPACITY L/MIN	L	W	H	M	N	A	B	D	J	K	INLET O	OUTLET P	MOTOR	N.W (kgs)	GW (kgs)	CODE NO.
MC-20	20	464	130	205	65	145	398	100	11	230	300	PF1 1/2"	PF1 1/2"	220V3Ø 25W	18	20	2020-010
MC-40	40	464	150	205	65	145	398	120	11	250	300	PF2"	PF2"	220V3Ø,25W	20	23	2020-011
MC-60	60	464	206	205	60	150	398	176	11	306	300	PF2"	PF2"	220V3Ø,25W	25	28	2020-012
MC-80	80	464	242	205	60	150	398	212	11	342	300	PF2"	PF1 1/2"	220V3Ø 25W	30	40	2020-013
MC-120	120	530	270	245	68	185	456	230	11	380	345	PF1 1/2"	PF3"	220V3Ø 40W	50	65	2020-014
MC-160	160	530	354	245	68	185	456	314	11	464	345	PF3"	PF3"	220V3Ø 40W	60	75	2020-015



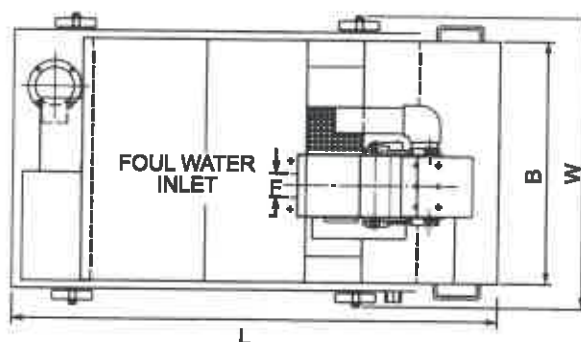
MC+PF60

## APPLICABLE TO THE FOLLOWING WORKING MACHINES

- Plane grinding machine.
  - Fine-grinding machine.
  - Honing machine.
  - Deep-hole drill.
  - Internal/exterless cylinder grinder.
  - Centerless grinder.
  - Please specify the power voltage in your order list.
  - Specifications are subject to change without notice.
  - Please notify volta & phase, when you ordering.
- ※Guaranteed for 3 months.

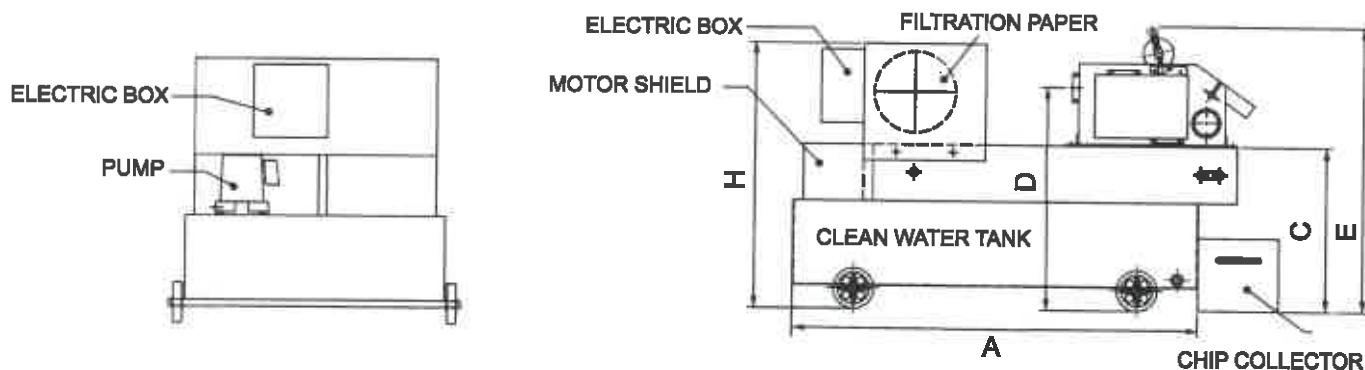
## FEATURES

- Applicable to both ferrous and non-ferrous metals.
- Filtration effect depends on paper accuracy.  
Use 50 $\mu$ ,30 $\mu$ ,or 15 $\mu$ .
- Rough filtration for chip in coolant with magnet and then fine filtration for impurities with paper will save the paper and upgrade filtration accuracy



## DIMENSION DIAGRAM

- Standard accessory:one roll paper 30 $\mu$



## MAGNETIC SEPARATOR & PAPER FILTER SPECIFICATIONS

ORDER NO.	DISPOSAL CAPACITY L/MIN	WATER TANK CAPACITY	L	A	B	C	D	E	F	H	W	PUMP		PAPER MOTOR	PAPER	REMARKS	N.W (kgs)	GW (kgs)	CODE NO.
												HP	OUTLET						
MC+PF-20	20	100 ℓ	1050	850	600	400	550	655	PF1 1/2"	610	720	1/8	PF 1/2"	25W	W:500MM L:90M  wheels	115	140	2020-020	
MC+PF-40	40	120 ℓ	1200	1000	600	400	550	705	PF2"	660	720	1/8	PF 1/2"	25W		150	175	2020-021	
MC+PF-60	60	140 ℓ	1350	1150	600	400	555	705	PF2"	660	720	1/8	PF 1/2"	25W		165	200	2020-022	
MC+PF-80	80	160 ℓ	1500	1300	600	400	555	705	PF2"	660	720	1/4	PF 3/4"	25W		190	225	2020-023	
MC+PF-120	120	210 ℓ	1500	1300	800	400	590	750	PF2 1/2"	740	920	1/2	PF 3/4"	40W		235	275	2020-024	
MC+PF-160	180	260 ℓ	1800	1600	800	400	605	750	PF3"	740	920	1/2	PF 3/4"	40W		290	335	2020-025	

# Coolant Tank Dust Collector VERTEX®



● WATER TANK CAPACITY 40 ℓ

Unit: mm

ORDER NO.	LxWxH	Motor	G.W.	CODE NO.
VC-601	500x300x530	1/8 HP	23kgs	2020-030



● WATER TANK CAPACITY 10 ℓ

Unit: mm

ORDER NO.	LxWxH	Motor	G.W.	CODE NO.
VC-602	560x370x720	1/2 HP	47kgs	2020-026

## Dust-Suction And Coolant Tank

TWO IN ONE

**PLEASE NOTIFY VOLTA & PHASE, WHEN YOU ORDERING.**



Combination coolant and dust collector(10-12 J)

1. Dust suction motor
2. Coolant pump
3. Filter access door
4. Filter
5. Coolant return pipe
6. Dust inlet pipe
7. Pump outlet

● WATER TANK CAPACITY 45 ℓ

Unit: mm

ORDER NO.	LxWxH	Motor	G.W.	CODE NO.
VC-603	690x400x780	1/2 HPx1, 1/8 HPx1	80kgs	2020-027

## Dust-Suction & Coolant Tank W/Magnetic Separator

THREE IN ONE

**PLEASE NOTIFY VOLTA & PHASE, WHEN YOU ORDERING.**



● WATER TANK CAPACITY 45 ℓ

Unit: mm

ORDER NO.	LxWxH	Motor	G.W.	CODE NO.
VC-606	900x780x850	1/2 HPx1, 1/8 HPx1	110kgs	2020-028



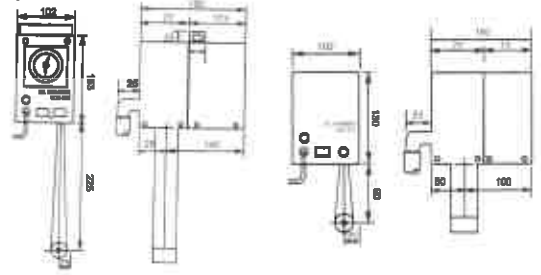
# Oil Skimmer With Belt Type

OIL SKIMMER FOR MACHINE TOOL.  
IT IS FOR CLEAR FLOATING OIL ON CUTTING LIQUID.



ORDER NO. VOS-800

ORDER NO. VOS-810



## FEATURES

- Oily leather belt cycle for collecting oil and efficiently and completely getting rid of dirty oil.
- Much less cost of running, without any material expended.
- Small volume, light weight, easy to install and to operate.
- Special leather belt with feature of excellent durability, heat-resistance, and chemical-resistance.
- VOS-800 attached a 24 hours procedure timer to run repeatedly in accordance with time proportion which it is set, and also provides the best efficiency of sucking floating oil.

OIL SKIMMER

ORDER NO.	POWER SOURCE	CAPACITY	DIMENSION			WEIGHT (kgs)	BELT DIMENSION		DIMENSION OF HOSE	CODE NO.
			L	B	H		B	L		
VOS-800	AC 110/220V	4L/h	190 mm	102 mm	153 mm	3.4	39x800 mm		ø22x600 mm	2020-100
VOS-810			150 mm	102 mm	138 mm	3	39x550 mm			2020-101

Unit: mm

# Oil Skimmer With Belt Type



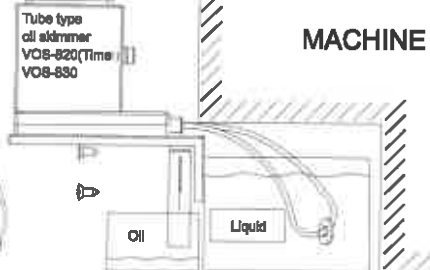
WITH TIMER

OUTLET TUBE

ORDER NO. VOS-820

INLET TUBE

ORDER NO. VOS-830

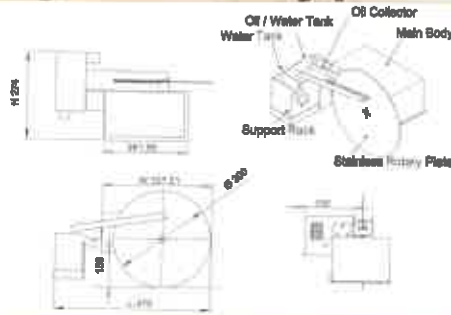


IF THE MACHINE DON'T HAVE SPACE FOR THE OIL SKIMMER. PLEASE CHOICE THIS TYPE.

Unit: mm

ORDER NO.	CAPACITY	DIMENSION			INLET TUBE SIZE	OUTLET TUBE SIZE	POWER SOURCE	WEIGHT (kg)	CODE NO.	
		L	B	H						
VOS-820	1L/hr	155 mm	78 mm	178 mm	2:300 mm	ø22	150 mm	AC 110/220V	1.9	2020-102
VOS-830		155 mm	78 mm	140 mm	3:200 mm				2	2020-103

# Oil Skimmer With Rotary Plate Type



ORDER NO.	CAPACITY	POWER SOURCE	DIMENSION			WEIGHT (kgs)	CODE NO.
			L	W	H		
VOS-850	1L/hr	AC 220V	479	337.21	274	8.6	2020-104

Unit: mm



Gauge blocks are fundamental standards for linear measurement. For adjusting, checking, or inspecting measuring instruments and tools, and precision workpieces. Gauge blocks are used either individually or in combination of several blocks which are wrung together.

Steel gauge blocks are made of quality alloy steel, and carbide, the ceramics are also available.

The hardness number of the measuring surfaces is no less than HRC64'.

The blocks have fine wear resistance, They are heat treated in special ways so as to stabilize their lengths.

JIS/ISO/DIN SIZE OVER UP TO	ACCURACY STANDARD ACCURACY AT 20°C (µm)	
	GRADE 00	GRADE 0
10mm	±0.06	±0.12
10 - 25mm	+0.07	±0.14
25 - 50mm	±0.10	±0.20
50 - 75mm	±0.12	±0.25
75 - 100mm	±0.14	±0.30
100 - 150mm	-	±0.40

SIZE OVER UP TO	ACCURACY AT 20°C (µm)	
	GRADE 1	GRADE 2
10mm	±0.20	±0.45
10 - 25mm	±0.30	±0.60
25 - 50mm	±0.40	±0.80
50 - 75mm	±0.50	±1.00
75 - 100mm	±0.60	±1.20
100 - 150mm	±0.80	±1.60

## STEEL METRIC GAUGE BLOCKS

ORDER NO.	Total blocks	Nominal dimension	Steps	No. of blocks	Grade	Weight (kg)	CODE NO.
VGB-112-0	112	1.0005	-	1	0	3.7	2006-070
VGB-112-1		1.001-1.009	0.001	9	1	3.7	2006-170
VGB-112-2		1.01-1.49 0.5-24.5 25-100	0.01 0.05 25	49 49 4	1 1 2	3.7	2006-270
VGB-103-0	103	1.005	-	1	0	3.6	2006-072
VGB-103-1		1.01-1.49	0.01	49	1	3.6	2006-172
VGB-103-2		0.5-24.5 25-100	0.5 25	49 4	1 2	3.6	2006-272
VGB-87-0	87	1.001-1.009	0.001	9	0	3	2006-073
VGB-87-1		1.01-1.49	0.01	49	1	3	2006-173
VGB-87-2		0.5-9.5 10-100	0.5 10	19 10	1 2	3	2006-273
VGB-47-0	47	1.005	-	1	0	2.4	2006-074
VGB-47-1		1.01-1.09	0.01	9	1	2.4	2006-174
VGB-47-2		1.1-1.9 1-24 25-100	0.1 1 25	9 1 4	1 2 2	2.4	2006-274
VGB-38-0	38	1.005	-	1	0	2.5	2006-075
VGB-38-1		1.01-1.09	0.01	9	1	2.5	2006-175
VGB-38-2		1.1-1.9 1-9 10-100	0.1 1 10	9 9 10	1 1 2	2.5	2006-275

## CARBIDE METRIC GAUGE BLOCKS

ORDER NO.	Total blocks	Nominal dimension	Steps	No. of blocks	Grade	Weight (kgs)	CODE NO.
VGB-112T-0	112	1.0005	-	1	0	5.8	2006-080
VGB-112T-1		1.001-1.009	0.001	9	1	5.8	2006-180
VGB-112T-2		1.01-1.49 0.5-24.5 25-100	0.01 0.05 25	49 49 4	1 1 2	5.8	2006-280
VGB-103T-0	103	1.005	-	1	0	5.6	2006-081
VGB-103T-1		1.01-1.49	0.01	49	1	5.7	2006-181
VGB-103T-2		0.5-24.5 25-100	0.5 25	49 4	1 2	5.7	2006-281
VGB-87T-0	87	1.001-1.009	0.001	9	0	4.8	2006-082
VGB-87T-1		1.01-1.49	0.01	49	1	4.9	2006-182
VGB-87T-2		0.5-9.5 10-100	0.5 10	19 10	1 2	4.8	2006-282
VGB-47T-0	47	1.005	-	1	0	4.6	2006-083
VGB-47T-1		1.01-1.09	0.01	9	1	4.6	2006-183
VGB-47T-2		1.1-1.9 1-24 25-100	0.1 1 25	9 1 4	1 2 2	4.6	2006-283



CHOICE DIFFERENT SIZE GAUGE BLOCK FOR TOTAL THE HEIGHT

Gauge blocks are fundamental standards for linear measurement. For adjusting, checking, or inspecting measuring instruments and tools, and precision workpieces.

Gauge blocks are used either individually or in combination of several blocks which are wrung together.

### JIS/ISO/DIN ACCURACY STANDARD

SIZE OVER UP TO	ACCURACY AT 20°C (µm)	
	GRADE 00	GRADE 0
10mm	±0.06	±0.12
10 - 25mm	+0.07	±0.14
25 - 50mm	±0.10	±0.20
50 - 75mm	±0.12	±0.25
75 - 100mm	±0.14	±0.30
100 - 150mm	-	±0.40

SIZE OVER UP TO	ACCURACY AT 20°C (µm)	
	GRADE 1	GRADE 2
10mm	±0.20	±0.45
10 - 25mm	±0.30	±0.60
25 - 50mm	±0.40	±0.80
50 - 75mm	±0.50	±1.00
75 - 100mm	±0.60	±1.20
100 - 150mm	±0.80	±1.60

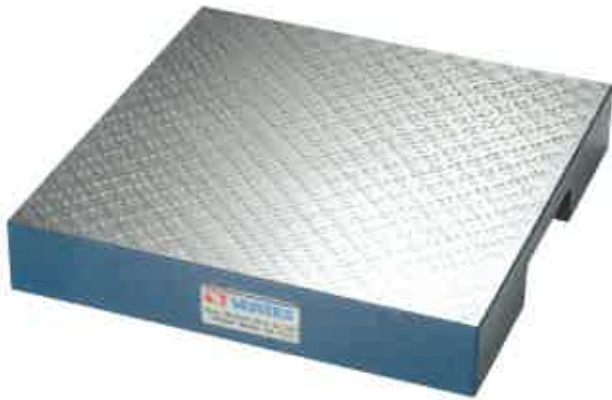
### CERAMIC GAUGE BLOCKS

ORDER NO.	Total blocks	Nominal dimension	Steps	No. of blocks	Grade	Weight (kgs)	CODE NO.
VGB-112C-0	112	1.0005	-	1	0	3.7	2006-090
		1.001-1.009	0.001	9			
		1.01-1.49	0.01	49			
VGB-112C-1		0.5-24.5	0.05	49	1	3.7	2006-190
		25-100	0.25	4			
VGB-103C-0	103	1.005	-	1	0	3.6	2006-091
		1.01-1.49	0.01	49			
		0.5-24.5	0.5	49			
VGB-103C-1		25-100	0.25	4	1	3.6	2006-191
VGB-87C-0	87	1.001-1.009	0.001	9	0	3	2006-092
		1.01-1.49	0.01	49			
		0.5-9.5	0.5	19			
VGB-87C-1		10-100	10	10	1	3	2006-192
VGB-47C-0	47	1.005	-	1	0	2.4	2006-093
		1.01-1.09	0.01	9			
		1.1-1.9	0.1	9			
VGB-47C-1		1-24	1	24	1	2.4	2006-193
		25-100	0.25	4			

### HOW TO CHOOSE THE BLOCK FOR SINE BAR

DISTANCE GAUGE BLOCK CAN GET DEGREE	SIN BAR CENTER	
	50	100
2°	1.7405	3.4899
3°	2.6168	5.2336
4°	3.4878	6.9756
5°	4.3578	8.7155
6°	5.2264	10.4528
7°	6.0935	12.1869
8°	6.9587	13.9173
9°	7.8217	15.6434
10°	8.6824	17.3648
11°	9.5404	19.0809
12°	10.3956	20.7911
13°	11.2476	22.4951
14°	12.0961	24.1921
15°	12.9401	25.8819
16°	13.7819	27.5637
17°	14.6186	29.2371
18°	15.4058	30.9017
19°	16.2784	32.5586
20°	17.1010	34.2020
21°	17.9184	35.8367
22°	18.7303	37.4606
23°	19.5366	39.0713
24°	20.3368	40.6736
25°	21.1309	42.2618
26°	21.9186	43.8371
27°	22.6995	45.3990
28°	23.4736	46.9471
29°	24.2405	48.4809
30°	25.0000	50.0000
31°	25.7519	51.5038
32°	26.4960	52.9919
33°	27.2320	54.4639
34°	27.9596	55.9192
35°	28.6788	57.3576
36°	29.3893	58.7785
37°	30.0908	60.1815
38°	30.7831	61.5661
39°	31.4660	62.9320
40°	32.1394	64.2787
41°	32.8030	65.6059
42°	33.4565	66.9130
43°	34.0999	68.1998
44°	34.7329	69.4658
45°	35.3553	70.7106

CERAMIC GAUGE BLOCKS



- These surface plates are designed for a diversity of applications where a smooth surface is needed.
- Rigidity and lasting accuracy are ensured by adequate top and side thickness and ribbed construction.
- The surfaces are free from pinholes. Precisely finished by planing and hand scraping, suitable for various kinds of high precision work, inspection and countless other uses.

## Surface Plates

Unit:mm

ORDER NO.	SIZE	SURFACE ACCURACY	APPROX. WEIGHT	CODE NO.
	mm		kgs	
VS-01	200x200x50	0.005/100	7.1	2021-001
VS-02	250x250x50		11.1	2021-002
VS-03	250x300x50		10.9	2021-003
VS-04	300x300x50		12.6	2021-004
VS-05	300x400x60	0.006/100	20.1	2021-005
VS-06	300x450x65		24	2021-006
VS-07	450x450x80		50.5	2021-007
VS-08	500x500x75		56	2021-008
VS-09	450x600x100		64.5	2021-009
VS-10	600x600x100	0.007/100	78	2021-010
VS-11	600x900x110		117	2021-011
VS-12	900x900x130		220	2021-012
VS-13	900x1200x155		305	2021-013

**NEW**



Separated Modular Design DIY Type.  
Low Profile Packing  
With Adjustment Screw For Leveling



## Cast Iron Surface Plates Stand

ORDER NO.	STAND SIZE	KGS	CODE NO.
	mm		
VSD-09N	450x600x700	25.6	2021-009N
VSD-10N	600x600x700	28.2	2021-010N
VSD-11N	600x900x700	47.8	2021-011N
VSD-12N	900x900x700	54.3	2021-012N
VSD-13N	900x1200x600	70.0	2021-013N



- Black Granite Surface Plates meet or exceed JIS B7513/ISO-8512-2 Federal Specification GGG-P-463c.
- Harder than steel.
- Does not nick or burr.
- Retains accuracy for years.
- Auto-collimator checked for overall accuracy.
- Guaranteed repeat reading.
- Includes an inspection certificate to show the unilateral accuracy of plate.
- Does not rust or corrode.
- Surface Accuracy : 0.013~0.0065 / 100 mm

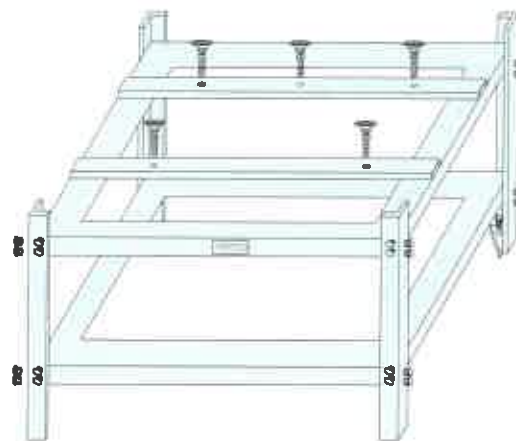
Accuracy and O-Ledge Style available only in toolroom Grade A

## Surface Plates

Unit:mm

ORDER NO.	SIZE	SURFACE ACCURACY	APPROX. WEIGHT	CODE NO.
	mm			
VSG-04	250x300x52	0.0065	12.6	2021-019
VSG-05	300x300x60	0.0065	17	2021-020
VSG-06	300x450x60	0.0065	25	2021-021
VSG-07	450x450x75	0.0065	46	2021-022
VSG-09	450x600x100	0.007	82	2021-023
VSG-10	600x600x100	0.009	109	2021-024
VSG-11	600x900x110	0.009	185	2021-025
VSG-13	900x1200x135	0.012	440	2021-027
VSG-14	1000x1000x135	0.012	408	2021-028
VSG-15	1000x1500x200	0.013	910	2021-029
VSG-21	900x900x160	0.013	380	2021-032

NEW

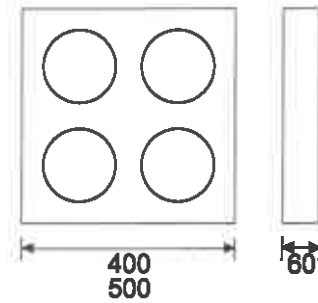


**Strong & Rigid**  
 Separated Modular Design DIY Type.  
 Low Profile Packing  
 With Adjustment Screw For Leveling  
 Material : SS41

## Black Granite Surface Plates Stand

ORDER NO.	STAND SIZE	KGS	CODE NO.
	mm		
VSGD-09N	450x600x700	32.6	2021-023N
VSGD-10N	600x600x700	37.7	2021-024N
VSGD-11N	600x900x700	55.7	2021-025N
VSGD-13N	900x1200x700	72.2	2021-027N
VSGD-14N	1000x1000x700	74.0	2021-028N
VSGD-15N	1000x1500x700	86.4	2021-029N
VSGD-21N	900x900x600	73.0	2021-032N

# Granite Square Rulers

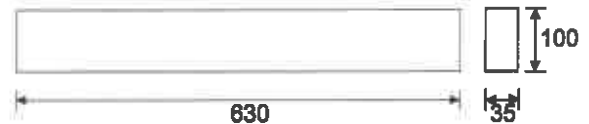


Accuracy:  
SQUARENESS 0.002 / 100 mm

Unit: mm

ORDER NO.	SIZE	G.W.(kgs)	CODE NO.
VQR-400	400x400x60	24.8	2021-050
VQR-500	500x500x60	40.2	2021-051

# Granite Straight Rulers



Accuracy:  
PARALLELISM 0.002 / 100 mm

Unit: mm

ORDER NO.	SIZE	G.W.(kgs)	CODE NO.
VSR-630	630x100x35	8.7	2021-060
VSR-1000	1000x80x50	13.7	2021-061

# Granite Triangle Ruler



Accuracy:  
SQUARENESS 0.002 / 100 mm

mm

ORDER NO.	Size	Thickness	Weight (kgs)	CODE NO.
VGT-300	300x200	30	5.7	2022-020
VGT-400	400x250	30	8.4	2022-021
VGT-600	600x400	63	27.5	2022-022



PAIR



**Accuracy:**  
**PARALLELISM 0.005 / 100 mm**

GRANITE V-BLOCK

ORDER NO.	CAPACITY	Size	GRADE	KGS	CODE NO.
VGV-63	Ø10~50	63x63x63	0	1.7	2022-030
VGV-100	Ø50~80	100x100x100	0	6.3	2022-031

mm

## Horizontal Leveling Instrument



0.02 / 100 mm

- When the bubble is in the center & touch and with in 2 red line, then the surface is leveled.

ORDER NO.	DIMENSION	Weight (kgs)	CODE NO.
VLI-200A	200x46x46	1.96	2022-043
VLI-300A	300x46x45.90	2.78	2022-044

mm

## Precision Square Level



0.02 / 100 mm

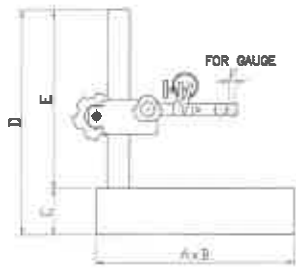
- When the bubble is in the center & touch and with in 2 red line, then the surface is leveled.

ORDER NO.	DIMENSION	Weight (kgs)	CODE NO.
VSL-200A	200x200x39.5	4.10	2022-053
VSL-300A	300x300x44.6	8.83	2022-054

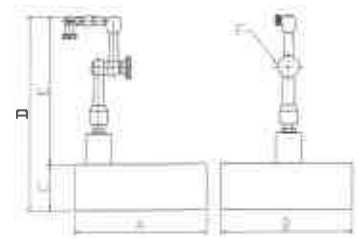
mm



VH-41,42,43



VH-45,46,47



- THE DIAL GAUGE IS OPTIONAL
- ACCURACY: 0.005/100mm

※ Gauge not included

ORDER NO.	AxB GRANITE PLATE DIMENSION	C	D	E	F	WEIGHT (kgs)	CODE NO.
VH-41	6" x 9" 150x220 mm	52	252	200	8 mm	6	2022-001A
VH-42	6" x 9" 150x220 mm	52	252	200	8 mm	9	2022-002A
VH-43	9" x 12" 230x300 mm	90	290	200	8 mm	22	2022-003A
VH-45	6" x 9" 150x220 mm	52	185	133	8 mm	6	2022-005
VH-46	6" x 9" 150x220 mm	52	185	133	8 mm	7.9	2022-006
VH-47	9" x 12" 230x300 mm	90	223	133	8 mm	19.1	2022-007

## Tester Arm Base

FOR SURFACE PLATE

NEW



For smooth moving on granite / cast iron test surface plate.

- Measuring aid
- Equipped with flexible arm
- For smooth measuring on granite / cast iron surface plate!
- Without dial gauge
- Base fine adjustment
- Bottom high precision finish : 0.02mm tolerance
- Material : Steel
- Single-hand operation
- Great for side measuring
- Reliable 1 knob locking mechanism

2-STEP ROUND SHAPE BASES IS EASY TO MOVE WITH 1 HAND.

EXAMPLE



※ Gauge not included



※ WITHOUT DIAL GAUGE mm

ORDER NO.	BASE (Ø)	MAIN ROD O.D x L	SUB ROD O.L x L	WEIGHT (kgs)	CODE NO.
VTB-120	120	Ø25 x 125	Ø25 x 125	2.65	2022-015





**ORDER NO. P-1000(PAPER)**  
**CODE NO.2021-200**

SIZE: WIDTH: 240 MM (±1CM)  
LENGTH: 350 M, G.W. 11 kgs  
PACK: 2 ROLL/CARTON  
COLOR: WHITE

**ORDER NO. S-1000(STAND)**  
**CODE NO.2021-220**

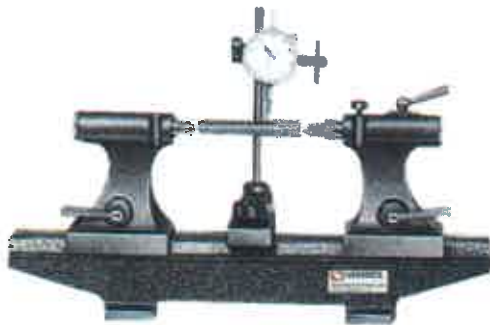
450L x 330W x 800H  
G.W. 2.7 kgs

## Concentric Test Stand

**NEW**

• For work shop use only

**VCI-400**



**VCI-200**



ORDER NO.	LENGTH	WIDTH	HEIGHT	CENTER DISTANCE	CENTER HEIGHT	WEIGHT (kgs)	CODE NO.
VCI-200	490	90	100	200	145	22	2021-101
VCI-300	530	90	100	300	145	26.8	2021-105
VCI-400	650	90	100	400	145	29.6	2021-102
VCI-600	1000	200	230	600	200	138.5	2021-106

mm

CONCENTRIC TEST STAND

## Pin Gauge



**EACH 0.01mm FOR ONE STEP SIZE**

ORDER NO.	NOMINAL DIMENSION EACH 0.01mm FOR 1 PCS	PCS/ SET	WEIGHT (kgs)	CODE NO.
VPG-0B	0.50, 0.51, 0.52~1.00	51	1	2022-060
VPG-1A	1.00, 1.01, 1.02~1.50	51	1	2022-061
VPG-1B	1.50, 1.51, 1.52~2.00	51	1	2022-062
VPG-2A	2.00, 2.01, 2.02~2.50	51	1	2022-063
VPG-2B	2.50, 2.51, 2.52~3.00	51	1	2022-064
VPG-3A	3.00, 3.01, 3.02~3.50	51	1	2022-065
VPG-3B	3.50, 3.51, 3.52~4.00	51	1	2022-066
VPG-4A	4.00, 4.01, 4.02~4.50	51	1.5	2022-067
VPG-4B	4.50, 4.51, 4.52~5.00	51	1.5	2022-068
VPG-5A	5.00, 5.01, 5.02~5.50	51	1.5	2022-069
VPG-5B	5.50, 5.51, 5.52~6.00	51	1.5	2022-070
VPG-6A	6.00, 6.01, 6.02~6.50	51	3.1	2022-071
VPG-6B	6.50, 6.51, 6.52~7.00	51	3.2	2022-072
VPG-7A	7.00, 7.01, 7.02~7.50	51	3.5	2022-073
VPG-7B	7.50, 7.51, 7.52~8.00	51	3.5	2022-074
VPG-8A	8.00, 8.01, 8.02~8.50	51	3.8	2022-075
VPG-8B	8.50, 8.51, 8.52~9.00	51	3.8	2022-076
VPG-9A	9.00, 9.01, 9.02~9.50	51	4	2022-077
VPG-9B	9.50, 9.51, 9.52~10.00	51	4	2022-078
VPG-10A	10.00, 10.01, 10.02~10.50	51	5	2022-079
VPG-10B	10.50, 10.51, 10.52~11.00	51	5	2022-080

### FEATURES:

DIAMETER	EACH STEP SIZE	LENGTH	ACCURACY IN DIAMETER	ROUNDNESS TOLERANCE	HARDNESS
0.05~0.09	0.01	5~10	±0.5um	0.5um	HV480
0.10~0.19	0.01	20	±0.5um	0.5um	HV480
0.20~0.99	0.01	40	±1um	0.8um	HV650
1.00~10.00	0.01	50	±1um	0.8um	HV650
10.01~20.00	0.01	50	±1.5um	1.6um	HV650
20.00~30.00	0.01	50	±1.5um	1.6um	HV650

## PRECISION VERNIER CALIPER



L: 150 200 300 mm

ORDER NO.	1 SCALE	WEIGHT(kg)	CODE NO.
VVC-6"	0.02 mm 1/1000"	0.4	2023-001
VVC-8"		0.5	2023-002
VVC-12"		0.8	2023-003

## DIGITAL ELECTRONIC CALIPER



L: 150 200 300 mm

ORDER NO.	1 SCALE	WEIGHT(kg)	CODE NO.
VEC-6"	0.01 mm	0.4	2023-010
VEC-8"		0.5	2023-011
VEC-12"		0.8	2023-012

## DIAL CALIPER



L: 150 200 300 mm

ORDER NO.	1 SCALE	WEIGHT(kg)	CODE NO.
VDC-6	0.02 mm	0.4	2023-050
VDC-8		0.5	2023-051
VDC-12		0.9	2023-052

## OUTSIDE MICROMETER



0 - 25 mm  
25 - 50 mm  
50 - 75 mm  
75 - 100 mm  
100-125 mm

## INSIDE MICROMETER



5 - 30 mm  
25 - 50 mm  
50 - 75 mm  
75 - 100 mm  
100-125 mm

ORDER NO.	1 SCALE	WEIGHT(kg)	CODE NO.
VOM-0025	0.01 mm	0.3	2023-060
VOM-2550		0.4	2023-061
VOM-5075		0.5	2023-062
VOM-75100		0.6	2023-063

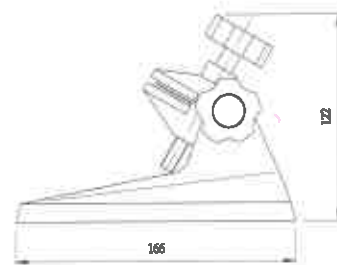
ORDER NO.	1 SCALE	WEIGHT(kg)	CODE NO.
VIM-0530	0.01 mm	0.3	2023-065
VIM-2550		0.4	2023-066
VIM-5075		0.4	2023-067
VIM-75100		0.4	2023-068
VIM-100125		0.42	2023-069

# Measuring Instrument



## MICROMETER STAND

MAX.OPENED  
17mm



166x110x122 mm

ORDER NO.	WEIGHT(kg)	CODE NO.
VH-19	1.3	2023-090

## DIAL INDICATOR



0.01~10 mm

ORDER NO.	1 SCALE	WEIGHT(kg)	CODE NO.
VDI-1	0.01 mm	0.3	2023-020

## DIAL TEST INDICATOR

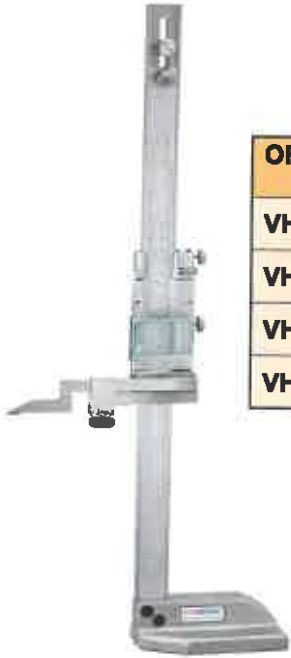
### NIDDLE TYPE



0.01~0.8 mm

ORDER NO.	1 SCALE	WEIGHT(kg)	CODE NO.
VDI-0.8A	0.01 mm	0.2	2023-070

## HEIGHT VERNIER CALIPER



H: 300 600 450 500

ORDER NO.	1 SCALE	WEIGHT (kgs)	CODE NO.
VHG-12	0.02 mm	4	2023-034
VHG-18		11.9	2023-035
VHG-20		10.7	2023-036
VHG-24		11.8	2023-037

## HEIGHT DIAL CALIPER



H: 300 600 mm

ORDER NO.	1 SCALE	WEIGHT (kgs)	CODE NO.
VHD-12	0.01 mm	4	2023-080
VHD-24		9.4	2023-081

MEASURING INSTRUMENT

# Measuring Instrument

# Measuring Tool Kits

## MICROMETER HEAD



ORDER NO.	SCALE x L	WEIGHT(kg)	CODE NO.
VMH-25	0.01x25 mm	0.2	2023-040

**NEW**



ORDER NO.	SET INCLUDING	WEIGHT (kg)	CODE NO.
VVC-20	VVC-6 x 1 PCS VOM-0025 x 1 PCS VIM-0530 x 1 PCS	1.37	2023-009

## Oil Type Protractor With Magnets



VAL-60



VAL-50



VAL-30



VAL-10



VAL-20

ORDER NO.	LxWxH	BASE	ACU	WEIGHT (kg)	CODE NO.
VAL-10	78x62x14mm	ABS	0.2°	0.2	2033-100
VAL-30	93x79x15mm	ABS	0.1°	0.2	2033-101
VAL-50	93x79x16mm	METAL	0.083°	0.4	2033-102
VAL-60	140x130x20mm	METAL	0.05°	1	2033-103
VAL-20	70x65x30mm	ABS	0.2°	0.2	2033-104
	13mm/1/2"x3M/10'				

- The pointer is rotating in a hydraulic oil for stable, precise and error-eliminating reading, even to a differential subgraduation less than one degree. The two pointers or the vernier versus the annular graduations are read super imposedly with minimum reading error.
- Double annular graduations are provided for preventing visual reading error.
- The transparent temperature-resistant oil may visually amplify the pointer for a better optical reading.
- The double-rail magnet may attract this angle level on a round pipe or a surface of ferrous material.
- An extension rule could be inserted into the bottom slot for measurement and drawing line for wider area.

1. RESET: For setting a pseudo-horizon, upon which a new angle on the pseudo-horizon can be directly measured.
2. DOUBLE CHECK: Double annular graduations provided for calibrating either positive or negative degrees.

### MULTI-FUNCTION ANGLE LEVEL



A Thin iron plate (The magnet power the thicker the weaker) may be attracted under the angle level for wider measurement.



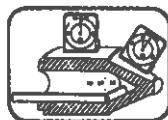
Inserting a straight extension rule into a bottom slot if the angle level.



Attracting the angle level on an iron plate for measuring an angle inside a tank.



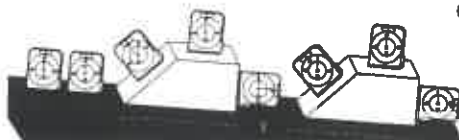
1. Suitable for working machines



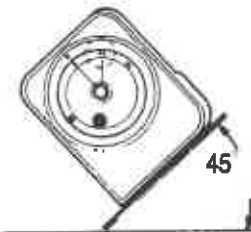
2. Grinding machine



3. Out & inner cone angle

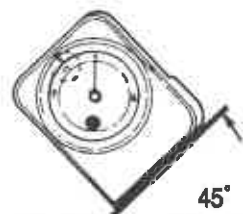


A standard angle block laid on a Non-horizontal Plane showing several measured positions by this angle level.



### Finding an angle

Align the movable degree scale 0° reading, in line with the fixed vernier, 0° mark. Set your instrument's bottom surface on the object to be measured. Your reading off the pointer is your angle of inclination from 0°



### Setting Specific angles

Align the desired angle on the movable scale to the vernier 0° mark. Tilt the instrument until the pointer is aligned with the 0° mark.

**OVERLAP**

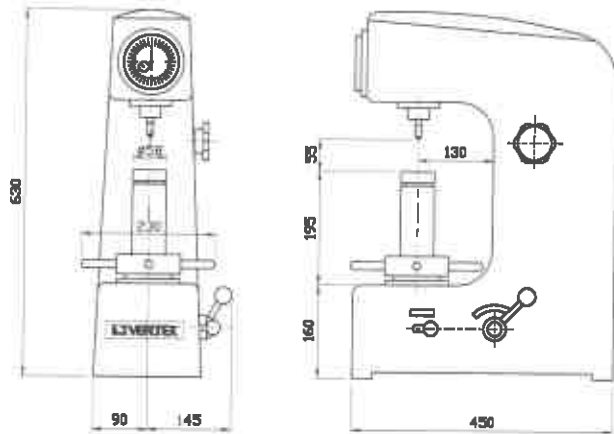


# Hardness Tester

ORDER NO.VHT-260 CODE NO.2033-201



NEW



- Swing 260mm
- Workpiece max. height : 170mm
- L x W x H : 466 x 238 x 630 mm
- Weight : 86.2 kgs
- 3 pressure degree : 60, 100, 150 kgs
- Rockwell scale : HRA>70  
HRB 30 - 100  
HRC 20 - 67

### ACCESSORIES :

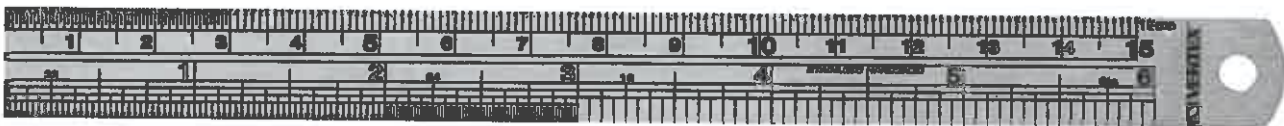
- Diamond tester x 1
- Steel ball tester x 1
- Flat testing table x 2
- Prisma testing table x 1
- Rockwell standard manual x 1

HARDNESS TESTER



# Stainless Steel Ruler

NEW



- Scale : acid - etched,engraved
- Surface treatment : polished finishing.

ORDER NO.	SIZE	DIMENSION(mm)	N.W.(kg)	CODE NO.
VSR-150	6"/15 cm	170x14.7x0.6	0.015	2033-321
VSR-200	8"/20 cm	226x20.0x0.6	0.03	2033-322
VSR-300	12"/30 cm	334x23.7x1.0	0.06	2033-323



# Thread Size & Depth Gauge



HANDY TYPE

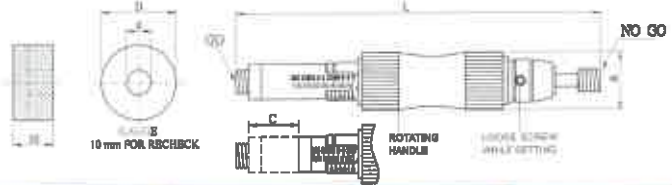
NEW

- INSTANT RESULT, QUICK READING
- THREAD PLUG GAUGE CHECK SIZE BY GO / ØD mm STD ACTION & THREAD DEPTH.
- RING GAUGE TO SET O POINT BEFORE USE
- 1 MARK : 0.2 mm, M3 x 0.5-6H H IS GRADE.
- ALLOW TO PRESET THE DESIRED THREAD DEPTH



GO

NO GO



ORDER NO.	SPECIFICATION					C MEASURING Depth(mm)	WEIGHT (kg)	CODE NO.
	A	B	L	D	d			
VSD-M3	M3x0.5-6H	17	102	Ø30	Ø3.3	8	0.12	2022-400
VSD-M4	M4x0.7-6H	17	102	Ø30	Ø4.3	8	0.12	2022-401
VSD-M5	M5x0.8-6H	17	114	Ø30	Ø5.5	20	0.14	2022-402
VSD-M6	M6x1-6H	17	114	Ø30	Ø6.5	20	0.14	2022-403
VSD-M8	M8x1.25-6H	23	140	Ø30	Ø10	26	0.2	2022-404
VSD-M10	M10x1.5-6H	23	140	Ø30	Ø10.5	26	0.2	2022-405



## Plug Gauge

NEW



GO

NO GO

The metric thread plug gauge & ring gauge

- Plug Gauge conform to DIN13 / DIN2280.

### The Metric Thread Plug Gauge In Coarse Thread

Unit : mm

ORDER NO.	Size (mm)	Weight (kg)	CODE NO.	ORDER NO.	Size (mm)	Weight (kg)	CODE NO.
VPG-3M	M3 x 0.5P	0.03	2033-340	VPG-18M	M18 x 2.5P	0.19	2033-349
VPG-4M	M4 x 0.7P	0.03	2033-341	VPG-20M	M20 x 2.5P	0.24	2033-350
VPG-5M	M5 x 0.8P	0.03	2033-342	VPG-22M	M22 x 2.5P	0.24	2033-351
VPG-6M	M6 x 1.0P	0.04	2033-343	VPG-24M	M24 x 3.0P	0.28	2033-352
VPG-8M	M8 x 1.25P	0.07	2033-344	VPG-27M	M27 x 3.0P	0.34	2033-353
VPG-10M	M10 x 1.5P	0.07	2033-345	VPG-30M	M30 x 3.5P	0.40	2033-354
VPG-12M	M12 x 1.75P	0.11	2033-346	VPG-33M	M33 x 3.5P	0.66	2033-355
VPG-14M	M14 x 2.0P	0.12	2033-347	VPG-36M	M36 x 4.0P	0.71	2033-356
VPG-16M	M16 x 2.0P	0.12	2033-348				



## Ring Gauge

GO TYPE

NEW



The metric thread plug gauge & ring gauge

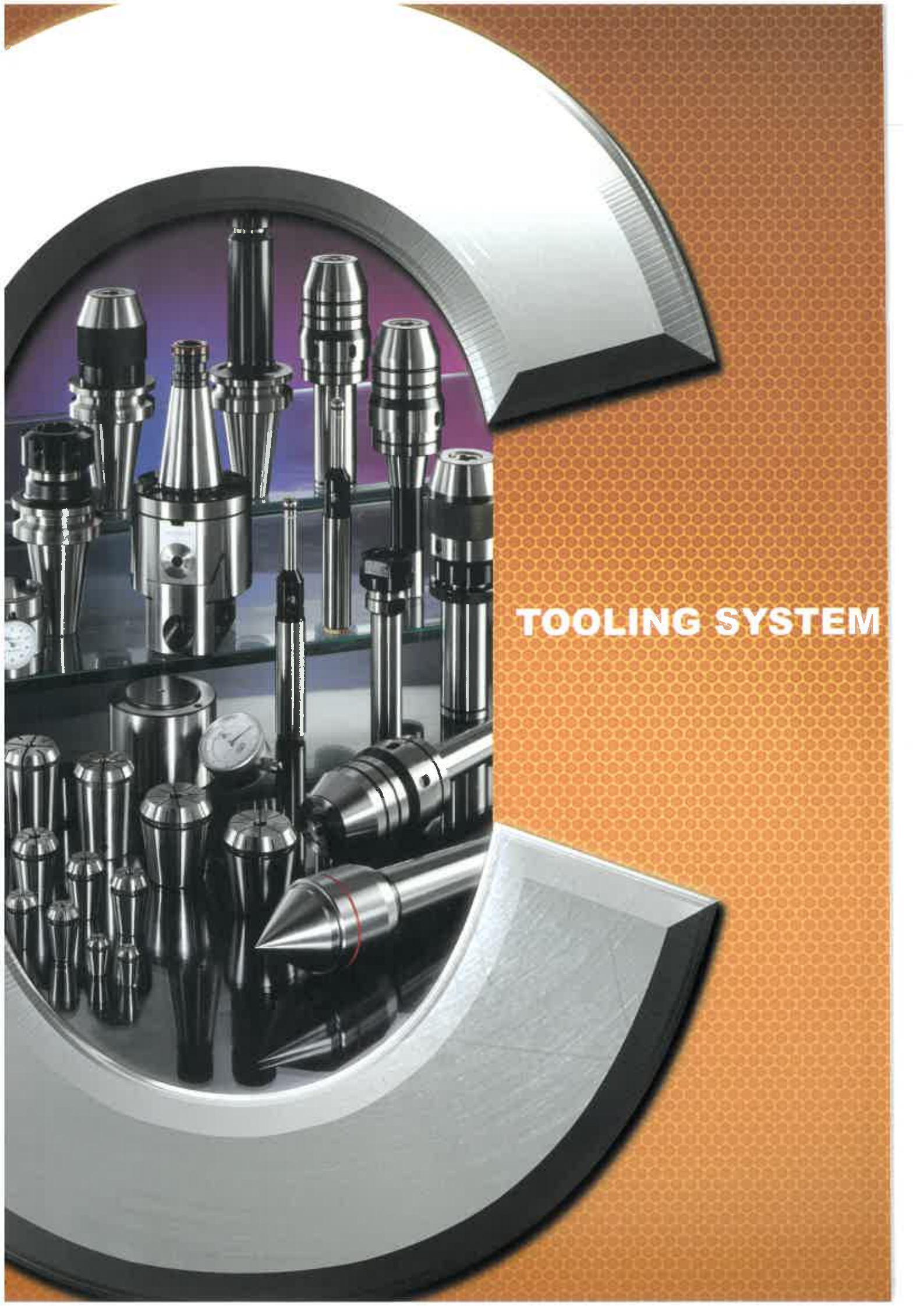
- Ring Gauge conform to DIN13 / DIN2285.

### Standard Size

### The Metric Thread Ring Gauge In Coarse Thread

Unit : mm

ORDER NO.	Size (mm)	Weight (kg)	CODE NO.
VRG-3	M3 x 0.5P	0.04	2033-370
VRG-4	M4 x 0.7P	0.04	2033-371
VRG-5	M5 x 0.8P	0.04	2033-372
VRG-6	M6 x 1.0P	0.07	2033-373
VRG-8	M8 x 1.25P	0.08	2033-374
VRG-10	M10 x 1.5P	0.09	2033-375
VRG-12	M12 x 1.75P	0.15	2033-376
VRG-14	M14 x 2.0P	0.15	2033-377
VRG-16	M16 x 2.0P	0.20	2033-378
VRG-18	M18 x 2.5P	0.24	2033-379
VRG-20	M20 x 2.5P	0.24	2033-380
VRG-22	M22 x 2.5P	0.42	2033-381
VRG-24	M24 x 3.0P	0.42	2033-382
VRG-27	M27 x 3.0P	0.51	2033-383
VRG-30	M30 x 3.5P	0.56	2033-384
VRG-33	M33 x 3.5P	0.72	2033-385
VRG-36	M36 x 4.0P	0.78	2033-386



# TOOLING SYSTEM

C1~C26	ER SERIES COLLET CHUCK SYSTEM	C71~C79	KEYLESS DRILL CHUCK / 3D-TASTER
C27~C34	OZ SERIES COLLET CHUCK SYSTEM	C80~C86	BORING HEAD SERIES
C35~C36	MULTI-LOCK MILLING CHUCK	C87~C98	PRECISION FINISH BORING HEAD SETS
C37	C TYPE COLLET CHUCK SYSTEM	C99~C105	TOUCH POINT / PRESETTER SERIES
C38~C39	QUICK-CHANGE TOLLING / TG 100 COLLET SYSTEM	C106~C125	TAPPING SYSTEM
C40~C41	COLLETS (TG,5C,R8,MT,U2)	C126~C130	AIR TAPPING UNIT
C42~C43	TAPER SLEEVE	C131~C132	TOOL STAND / LOCKING DEVICE
C44~C51	TOOL HOLDER (DIN2080 / 69871A ISO / NT / BT)	C133~C137	SHEATH RACK TOOL CARTS SPINDLE TAPER WIRE
C52~C55	PULL STUDS	C138~C139	TOOL CABINET / WORK BENCH
C56~C59	COMPLETE NC TOOLING SET	C140	PARTS CABINET / TOOL BOX
C59~C61	TOOL HOLDER	C141	ECONOMICAL PALLET / HEAVY DUTY PALLET
C62~C66	HSK-A63 / HIGH SPEED TOOLING SYSTEM		
C67~C70	SK SPRING COLLET SYSTEM		



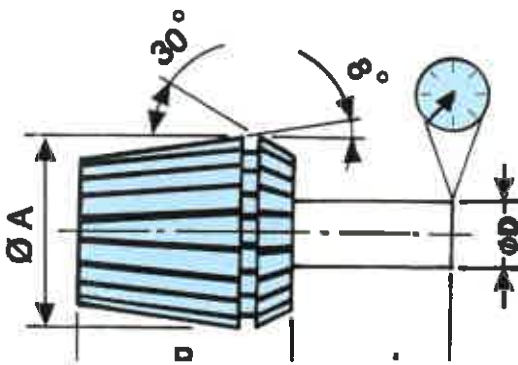




ER collet system of VERTEX is made of special elastic steel material under excellent heat treatment and precise grinding process, so it has precise accuracy, powerful clamping ability, and is durable. This collet can clamp for a specific standard size and its next size, (Refer to the data sheet on page 2). It can be widely used for boring, milling, drilling and tapping as well as for grinding operation, and is available for all sizes.

## ER COLLET DIMENSIONS

TYPE	A	B
ER-8	8.5	13.5
ER-11	11.5	18
ER-16	17	27
ER-20	21	31
ER-25	26	35
ER-32	33	40
ER-40	41	46
ER-50	52	60

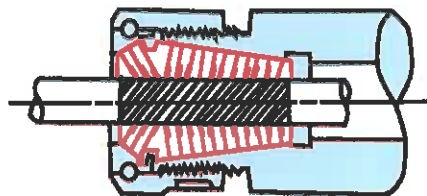


L mm	D mm	DIN6343 Standard precision	VERTEX Standard precision	A Grade Optional
6	1.0-1.4	0.02	0.015	0.01
10	1.5-2.9	0.02	0.015	0.01
16	3.0-5.9	0.02	0.015	0.01
25	6.0-9.9	0.02	0.015	0.01
40	10.0-17.9	0.03	0.02	0.01
50	18.0-26.9	0.03	0.02	0.01
60	27.0-34.9	0.03	0.02	0.01

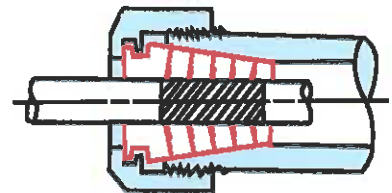
THE HIGH PRECISION OF A GRADE IS AVAILABLE



double-taper chuck



single-taper chuck

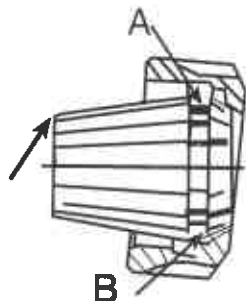


## POWERFUL CLAMPING STRENGTH

The handle of the drill with double-taper chuck is longer than that with single-taper (grinding spring) collet. The clamping strength will be more powerful, if a screw-driver fastened by steel ball is adopted.

### NOTE:

## Mounting instructions for ER collets DIN 6499-A and DIN 6499-B



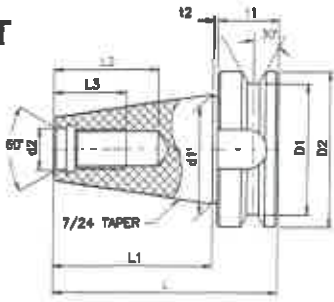
**A** - Place collet inside nut and rotate the nut to engage with the extractor spiral in collet groove.

**B** - Only then mount nut and collet together into the collet holder or machine spindle.

Note: Never use a 12-11mm collet to clamp a 12.2mm diameter, but rather use a 13-12mm collet.

**Shank For Machining Center**

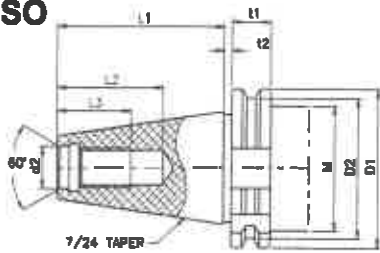
**BT**



**MAS BT SHANK**

SPECIFICATION	D1	D2	t1	t2	L1	L2	L3	L	d1	d2	G
BT30	46	38	20	2	48.4	34	24	70.4	31.75	12.5	M12
BT40**	63	53	25	2	65.4	70	30	92.4	44.45	17	M16
BT50**	100	85	35	3	101.8	90	45	139.8	69.85	25	M24

**ISO**



**DIN 69871A SHANK**

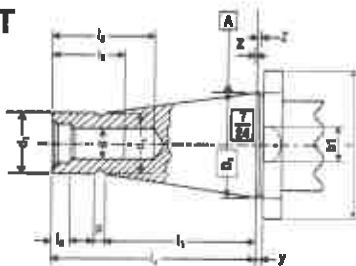
SPECIFICATION	D1	D2	t1	t2	L1	L2	L3	d1	d2	M	P	G
SK40	63.55	56.25	15.9	3.2	68.4	42.5	32	44.45	17	44.7	35	M16
SK50	97.5	91.25			101.75	61.5	47	69.85	25	70.1		M24

\*DRAW BAR DIN 69872 A TYPE

**JIS B6101**

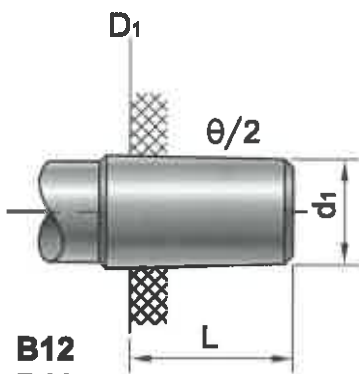
TYPE	D1	Z	d1	d3	l	l1	p	y	g	l5	b1
NT30	31.750	0.4	17.4	16.5	68.4	48.4	3	1.6	M12, 1/2-12NC	6	16.1
NT40	44.450	0.4	25.3	24	93.4	65.4	5	1.6	M16, 5/8-11NC	8	16.1
NT50	69.850	0.4	39.6	38	126.8	101.8	8	3.2	M24, 1"-8NC	11.5	25.7

**NT**



**Drill Chuck Taper**

**JT**



**B12  
B16  
B18**

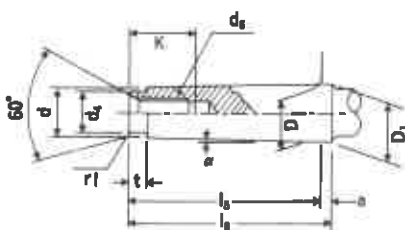
**JACOBS TAPER**

TYPE	θ /2 TAPER	D1	d1	L
JT0		6.35	5.802	11.12
JT1		9.754	8.469	16.669
JT2	2° 19'52"	14.199	12.386	22.225
JT33	1° 49'01"	15.850	14.237	25.400
JT6	1° 29'88"	17.170	15.852	25.400
JT3	1° 31'26"	20.599	18.951	30.956
JT4	1° 29'59"	28.550	26.346	42.069
JT5	1° 29'05"	35.890	33.422	47.625

**DIN 238**

TYPE	θ /2 TAPER	D1	d1	L
B12	1° 25'43"	12.065	11.1	18.5
B16	1° 25'50"	15.733	14.5	24.0
B18	1° 25'50"	17.780	16.2	32.0

**Morse Taper Shank MT**



TYPE	D	a	D1	d	l5	l6	d4	d5
MT.0	9.045	3	9.2	6.4	50	53	6	-
MT.1	12.065	3.5	12.2	9.4	53.5	57	9	M6, 1/4-20NC
MT.2	17.780	5	18.0	14.6	64	69	14	M10, 3/8-16NC
MT.3	23.825	5	24.1	19.8	81	86	19	M12, 1/2-12NC
MT.4	31.267	6.5	31.6	25.9	102.5	109	25	M16, 5/8-11NC
MT.5	44.399	6.5	44.7	37.6	129.5	136	35.7	M20, 3/4-10NC
MT.6	63.348	8	63.8	53.9	182	190	51	M24, 1"-8NC

ER COLLET



# ER Spring Collet Chuck System



STANDARD PRECISION TYPE

DIN 6499



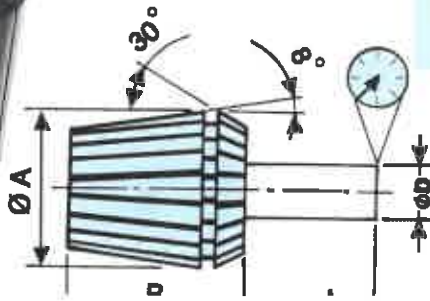
## ER COLLET SET WITH CLAMPING RANGE

TYPE	ER-8			ER-11			ER-16			ER-20			
COMPLET SET	9PCS/SET			7PCS/SET			10PCS/SET			12PCS/SET			
FULL SET	ORDER NO.	CAP. mm Ø	CODE NO.	ORDER NO.	CAP. mm Ø	CODE NO.	ORDER NO.	CAP. mm Ø	CODE NO.	ORDER NO.	CAP. mm Ø	CODE NO.	
	V08000	0.5-5.0	3001-101	V11000	0.5-7.0	3002-101	V16000	0.5-10.0	3003-101	V20000	1-13	3004-101	
INDIVIDUAL UNIT	V08010	1.0-0.5	3001-001	V11010	1.0-0.5	3002-001	V16010	1.0-0.5	3003-001	V20020	2-1	3004-001	
	V08015	1.5-1.0	3001-002	V11020	2.0-1.5	3002-002	V16020	2.0-1.0	3003-002	V20030	3-2	3004-002	
	V08020	2.0-1.5	3001-003	V11030	3.0-2.5	3002-003	V16030	3.0-2.0	3003-003	V20040	4-3	3004-003	
	V08025	2.5-2.0	3001-004	V11040	4.0-3.5	3002-004	V16040	4.0-3.0	3003-004	V20050	5-4	3004-004	
	V08030	3.0-2.5	3001-005	V11050	5.0-4.5	3002-005	V16050	5.0-4.0	3003-005	V20060	6-5	3004-005	
	V08035	3.5-3.0	3001-006	V11060	6.0-5.5	3002-006	V16060	6.0-5.0	3003-006	V20070	7-6	3004-006	
	V08040	4.0-3.5	3001-007	V11070	7.0-6.5	3002-007	V16070	7.0-6.0	3003-007	V20080	8-7	3004-007	
	V08045	4.5-4.0	3001-008	V11015	1.5	3002-008	V16080	8.0-7.0	3003-008	V20090	9-8	3004-008	
	V08050	5.0-4.5	3001-009	V11025	2.5	3002-009	V16090	9.0-8.0	3003-009	V20100	10-9	3004-009	
					V11035	3.5	3002-010	V16100	10.0-9.0	3003-010	V20110	11-10	3004-010
					V11045	4.5	3002-011	V16015	1.5	3003-011	V20120	12-11	3004-011
					V11055	5.5	3002-012	V16025	2.5	3003-012	V20130	13-12	3004-012
					V11065	6.5	3002-013	V16035	3.5	3003-013	V20010	1.0	3004-013
								V16045	4.5	3003-014	V20025	2.5	3004-014
								V16055	5.5	3003-015	V20035	3.5	3004-015
							V16065	6.5	3003-016	V20045	4.5	3004-016	
							V16075	7.5	3003-017	V20055	5.5	3004-017	
							V16085	8.5	3003-018	V20065	6.5	3004-018	
							V16095	9.5	3003-019	V20075	7.5	3004-019	
										V20085	8.5	3004-020	
										V20095	9.5	3004-021	
										V20105	10.5	3004-022	
										V20115	11.5	3004-023	
										V20125	12.5	3004-024	
	Note: APPROXIMATE FOR EACH		WEIGHT (kgs)										
	ER-8		0.01										
	ER-11		0.02										
	ER-16		0.03										
	ER-20		0.05										
	ER-25		0.07										
	ER-32		0.15										
	ER-40		0.28										
	ER-50		0.54										

# ER Spring Collet Chuck System

STANDARD PRECISION TYPE

DIN 6499



L mm	D mm	DIN6343 Standard precision	VERTEX Standard precision
6	1.0-1.4	0.02	0.015
10	1.5-2.9	0.02	0.015
16	3.0-5.9	0.02	0.015
25	6.0-9.9	0.02	0.015
40	10.0-17.9	0.03	0.02
50	18.0-26.9	0.03	0.02
60	27.0-34.9	0.03	0.02



## ER COLLET SET WITH CLAMPING RANGE

ER-25			ER-32			ER-40			ER-50		
15PCS/SET			18PCS/SET			23PCS/SET			12PCS/SET		
ORDER NO.	CAP. mm Ø	CODE NO.	ORDER NO.	CAP. mm Ø	CODE NO.	ORDER NO.	CAP. mm Ø	CODE NO.	ORDER NO.	CAP. mm Ø	CODE NO.
V25000	1-16	3005-101	V32000	2-20	3006-101	V40000	3-26	3007-101	V50000	10-34	3008-101
V25020	2-1	3005-001	V32030	3-2	3006-001	V40040	4-3	3007-001	V50120	12-10	3008-001
V25030	3-2	3005-002	V32040	4-3	3006-002	V40050	5-4	3007-002	V50140	14-12	3008-002
V25040	4-3	3005-003	V32050	5-4	3006-003	V40060	6-5	3007-003	V50160	16-14	3008-003
V25050	5-4	3005-004	V32060	6-5	3006-004	V40070	7-6	3007-004	V50180	18-16	3008-004
V25060	6-5	3005-005	V32070	7-6	3006-005	V40080	8-7	3007-005	V50200	20-18	3008-005
V25070	7-6	3005-006	V32080	8-7	3006-006	V40090	9-8	3007-006	V50220	22-20	3008-006
V25080	8-7	3005-007	V32090	9-8	3006-007	V40100	10-9	3007-007	V50240	24-22	3008-007
V25090	9-8	3005-008	V32100	10-9	3006-008	V40110	11-10	3007-008	V50260	26-24	3008-008
V25100	10-9	3005-009	V32110	11-10	3006-009	V40120	12-11	3007-009	V50280	28-26	3008-009
V25110	11-10	3005-010	V32120	12-11	3006-010	V40130	13-12	3007-010	V50300	30-28	3008-010
V25120	12-11	3005-011	V32130	13-12	3006-011	V40140	14-13	3007-011	V50320	32-30	3008-011
V25130	13-12	3005-012	V32140	14-13	3006-012	V40150	15-14	3007-012	V50340	34-32	3008-012
V25140	14-13	3005-013	V32150	15-14	3006-013	V40160	16-15	3007-013			
V25150	15-14	3005-014	V32160	16-15	3006-014	V40170	17-16	3007-014			
V25160	16-15	3005-015	V32170	17-16	3006-015	V40180	18-17	3007-015			
			V32180	18-17	3006-016	V40190	19-18	3007-016			
			V32190	19-18	3006-017	V40200	20-19	3007-017			
			V32200	20-19	3006-018	V40210	21-20	3007-018			
						V40220	22-21	3007-019			
						V40230	23-22	3007-020			
						V40240	24-23	3007-021			
						V40250	25-24	3007-022			
						V40260	26-25	3007-023			
						V40115	11.5	3007-024			
						V40125	12.5	3007-025			
						V40135	13.5	3007-026			
						V40145	14.5	3007-027			
						V40155	15.5	3007-028			
						V40165	16.5	3007-029			
						V40175	17.5	3007-030			
						V40185	18.5	3007-031			
						V40195	19.5	3007-032			
						V40205	20.5	3007-033			
						V40215	21.5	3007-034			
						V40225	22.5	3007-035			
						V40235	23.5	3007-036			
						V40245	24.5	3007-037			
						V40255	25.5	3007-038			
						V40265	26.5	3007-039			

ER COLLET



# ER Spring Collet Chuck System



**SUPER ULTRA PRECISION TYPE**  
**A GRADE**



TYPE	ER-8			ER-11			ER-16			ER-20		
COMPLET SET	9PCS/SET			7PCS/SET			10PCS/SET			12PCS/SET		
FULL SET	ORDER NO.	CAP. mm Ø	CODE NO.	ORDER NO.	CAP. mm Ø	CODE NO.	ORDER NO.	CAP. mm Ø	CODE NO.	ORDER NO.	CAP. mm Ø	CODE NO.
	V08000S	0.5-5.0	3000-001	V11000S	0.5-7.0	3000-002	V16000S	0.5-10.0	3000-003	V20000S	1-13	3000-004
INDIVIDUAL UNIT	V08010S	1.0-0.5	3000-010	V11010S	1.0-0.5	3000-020	V16010S	1.0-0.5	3000-040	V20020S	2-1	3000-060
	V08015S	1.5-1.0	3000-011	V11020S	2.0-1.5	3000-021	V16020S	2.0-1.0	3000-041	V20030S	3-2	3000-061
	V08020S	2.0-1.5	3000-012	V11030S	3.0-2.5	3000-022	V16030S	3.0-2.0	3000-042	V20040S	4-3	3000-062
	V08025S	2.5-2.0	3000-013	V11040S	4.0-3.5	3000-023	V16040S	4.0-3.0	3000-043	V20050S	5-4	3000-063
	V08030S	3.0-2.5	3000-014	V11050S	5.0-4.5	3000-024	V16050S	5.0-4.0	3000-044	V20060S	6-5	3000-064
	V08035S	3.5-3.0	3000-015	V11060S	6.0-5.5	3000-025	V16060S	6.0-5.0	3000-045	V20070S	7-6	3000-065
	V08040S	4.0-3.5	3000-016	V11070S	7.0-6.5	3000-026	V16070S	7.0-6.0	3000-046	V20080S	8-7	3000-066
	V08045S	4.5-4.0	3000-017	V11015S	1.5	3000-027	V16080S	8.0-7.0	3000-047	V20090S	9-8	3000-067
	V08050S	5.0-4.5	3000-018	V11025S	2.5	3000-028	V16090S	9.0-8.0	3000-048	V20100S	10-9	3000-068
				V11035S	3.5	3000-029	V16100S	10.0-9.0	3000-049	V20110S	11-10	3000-069
				V11045S	4.5	3000-030	V16015S	1.5	3000-050	V20120S	12-11	3000-070
				V11055S	5.5	3000-031	V16025S	2.5	3000-051	V20130S	13-12	3000-071
				V11065S	6.5	3000-032	V16035S	3.5	3000-052	V20010S	1.0	3000-072
							V16045S	4.5	3000-053	V20025S	2.5	3000-073
							V16055S	5.5	3000-054	V20035S	3.5	3000-074
							V16065S	6.5	3000-055	V20045S	4.5	3000-075
							V16075S	7.5	3000-056	V20055S	5.5	3000-076
							V16085S	8.5	3000-057	V20065S	6.5	3000-077
						V16095S	9.5	3000-058	V20075S	7.5	3000-078	
									V20085S	8.5	3000-079	
									V20095S	9.5	3000-080	
									V20105S	10.5	3000-081	
									V20115S	11.5	3000-082	
									V20125S	12.5	3000-083	

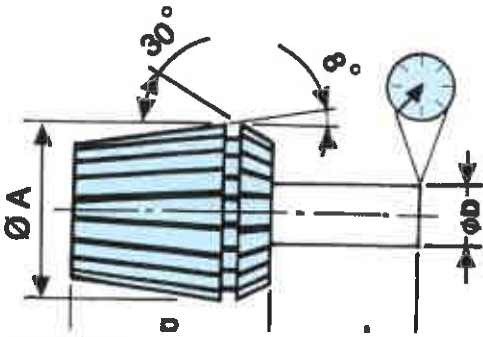
# ER Spring Collet Chuck System

**SUPER ULTRA PRECISION TYPE**

**DIMENSIONS**

**S GRADE / A GRADE**

**Accuracy**



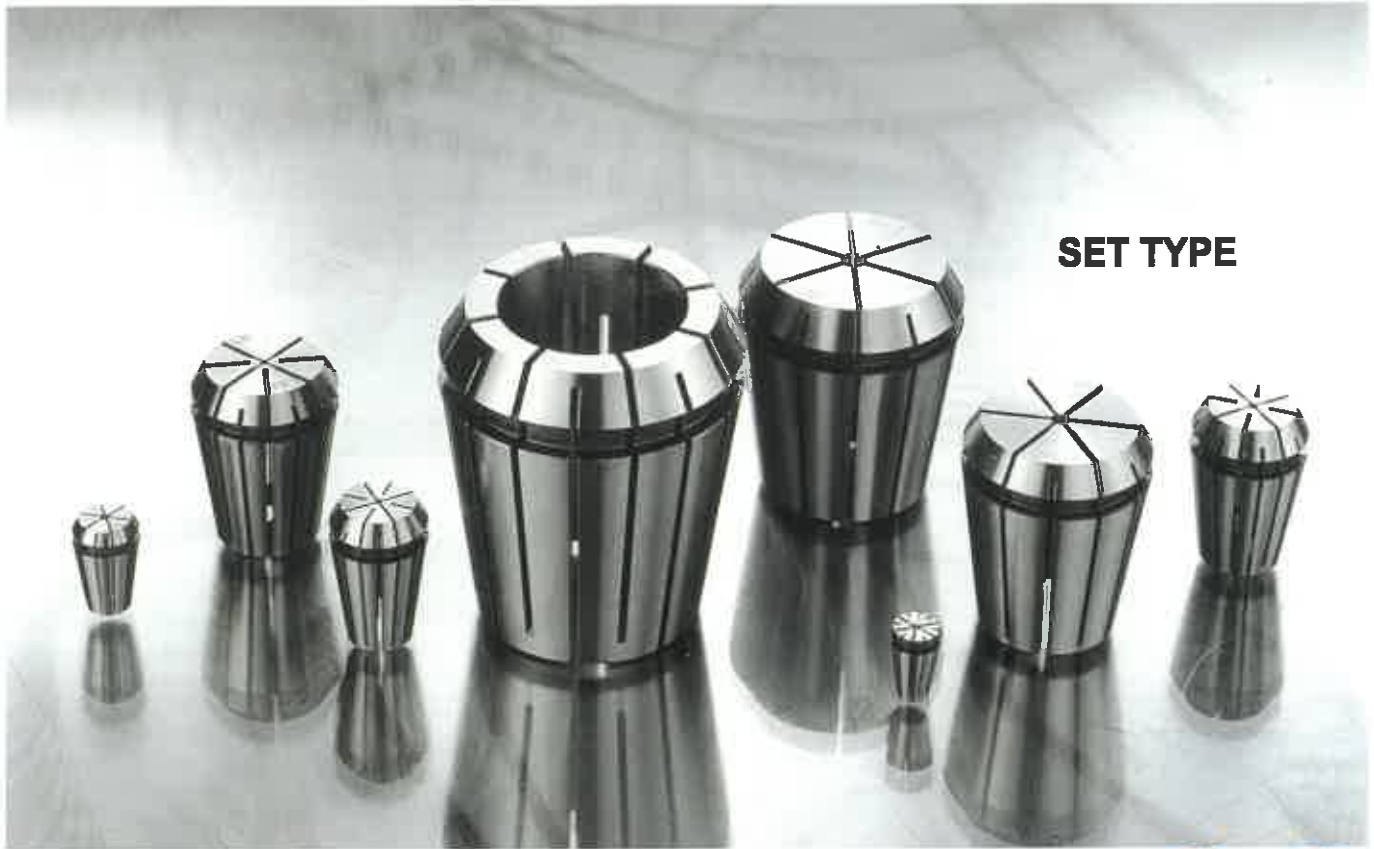
TYPE	A	B
ER08	8.5	13.5
ER11	11.5	18
ER16	17	27
ER20	21	31
ER25	26	35
ER32	33	40
ER40	41	46
ER50	52	60

L(mm)	ØD(mm)	Ultra Precision(MM)
6	1.0-1.4	0.01
10	1.5-2.9	0.01
16	3.0-5.9	0.01
25	6.0-9.9	0.01
40	10.0-17.9	0.01
50	18.0-26.9	0.01
60	27.0-34.9	0.01



ER-25			ER-32			ER-40			ER-50		
15PCS/SET			18PCS/SET			23PCS/SET			12PCS/SET		
ORDER NO.	CAP. mm Ø	CODE NO.	ORDER NO.	CAP. mm Ø	CODE NO.	ORDER NO.	CAP. mm Ø	CODE NO.	ORDER NO.	CAP. mm Ø	CODE NO.
V25000S	1-16	3000-005	V32000S	2-20	3000-006	V40000S	3-26	3000-007	V50000S	10-34	3000-008
V25020S	2-1	3000-090	V32030S	3-2	3000-110	V40040S	4-3	3000-130	V50120S	12-10	3000-160
V25030S	3-2	3000-091	V32040S	4-3	3000-111	V40050S	5-4	3000-131	V50140S	14-12	3000-161
V25040S	4-3	3000-092	V32050S	5-4	3000-112	V40060S	6-5	3000-132	V50160S	16-14	3000-162
V25050S	5-4	3000-093	V32060S	6-5	3000-113	V40070S	7-6	3000-133	V50180S	18-16	3000-163
V25060S	6-5	3000-094	V32070S	7-6	3000-114	V40080S	8-7	3000-134	V50200S	20-18	3000-164
V25070S	7-6	3000-095	V32080S	8-7	3000-115	V40090S	9-8	3000-135	V50220S	22-20	3000-165
V25080S	8-7	3000-096	V32090S	9-8	3000-116	V40100S	10-9	3000-136	V50240S	24-22	3000-166
V25090S	9-8	3000-097	V32100S	10-9	3000-117	V40110S	11-10	3000-137	V50260S	26-24	3000-167
V25100S	10-9	3000-098	V32110S	11-10	3000-118	V40120S	12-11	3000-138	V50280S	28-26	3000-168
V25110S	11-10	3000-099	V32120S	12-11	3000-119	V40130S	13-12	3000-139	V50300S	30-28	3000-169
V25120S	12-11	3000-100	V32130S	13-12	3000-120	V40140S	14-13	3000-140	V50320S	32-30	3000-170
V25130S	13-12	3000-101	V32140S	14-13	3000-121	V40150S	15-14	3000-141	V50340S	34-32	3000-171
V25140S	14-13	3000-102	V32150S	15-14	3000-122	V40160S	16-15	3000-142			
V25150S	15-14	3000-103	V32160S	16-15	3000-123	V40170S	17-16	3000-143			
V25160S	16-15	3000-104	V32170S	17-16	3000-124	V40180S	18-17	3000-144			
			V32180S	18-17	3000-125	V40190S	19-18	3000-145			
			V32190S	19-18	3000-126	V40200S	20-19	3000-146			
			V32200S	20-19	3000-127	V40210S	21-20	3000-147			
						V40220S	22-21	3000-148			
						V40230S	23-22	3000-149			
						V40240S	24-23	3000-150			
						V40250S	25-24	3000-151			
						V40260S	26-25	3000-152			

ER COLLET



SET TYPE



### COLLET KITS STANDARD TYPE

ORDER NO.	TYPE	COLLET SIZE INSIDE DIA.	PCS/SET	KGS/PACKING	CODE NO.
V-08000	ER-8	1+0.5-5mm(1, 1.5,2,2.5,3,3.5,4,4.5,5mm)	9PCS	1.065(C)	3001-101
V-11000	ER-11	1-7mm(1,2,3,4,5,6,7mm)	7PCS	1.075(C)	3002-101
V-11013		1+0.5-7mm(1, 1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7mm)	13PCS	0.3(C)	3002-102
V-16000	ER-16	1-10mm(1,2,3,4,5,6,7,8,9,10mm)	10PCS	0.7(C)	3003-101
V-16008		3-10mm(3,4,5,6,7,8,9,10mm)	8PCS	0.6(C)	3003-102
V-20000	ER-20	2-13mm(2,3,4,5,6,7,8,9,10,11,12,13mm)	12PCS	0.9(C)	3004-101
V-20008		4-13mm(4,5,6,7,8,9,10,11,12,13mm)	10PCS	0.8(C)	3004-102
V-25000	ER-25	2-16mm(2,3,4,5,6,7,8,9,10,11,12,13,14,15,16mm)	15PCS	1.3(W)	3005-101
V-25008		4-16mm(4,5,6,7,8,9,10,11,12,13,14,15,16mm)	13PCS	1.0(W)	3005-102
V-25009		6,8,10,12,16mm	5PCS	1.325(C)	3005-103
V-25010		4,6,8,10,12,14,16mm	7PCS	0.35(C)	3005-104
V-32000	ER-32	3-20mm(3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20mm)	18PCS	3.3(P)	3006-101
V-32008		4,5,6,8,10,12,13,15,16,18,20mm	11PCS	2.8(C)	3006-102
V-32009		6,8,10,12,16,20mm	6PCS	0.9(C)	3006-103
V-40000	ER-40	4-26mm(4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26mm)	23PCS	6.5(P)	3007-101
V-40008		4,5,6,8,10,12,13,15,16,18,20,21,22,25,26mm	15PCS	4.2(P)	3007-102
V-40009		6,8,10,12,16,20,25mm	7PCS	2.0(P)	3007-103
V-50000	ER-50	12,14,16,18,20,22,24,26,28,30,32,34mm	12PCS	6.5(W)	3008-101

# ER-Type Coolant Collet

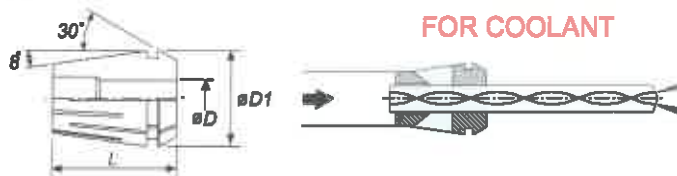


Collets to DIN6499B

FOR COOLANT



Seal Coolant Collet



COOLANT COLLETS HAS ROUND SMALL THROUGH HOLE ON THE SLOTS, ONLY WHEN THE DIAMETER IS SMALL. THE REST IS SAME AS NORMAL ER COLLET.

- ER20 Ø4,5 MM
- ER25 Ø4,5,6,7 MM
- ER32 Ø4,5,6,7,8,9 MM
- ER40 Ø4,5,6,7,8,9 MM



ER-16			ER-20			ER-25			ER-32			ER-40		
PCS/SET			PCS/SET			PCS/SET			PCS/SET			PCS/SET		
ORDER NO.	CAP. mm Ø	CODE NO.	ORDER NO.	CAP. mm Ø	CODE NO.	ORDER NO.	CAP. mm Ø	CODE NO.	ORDER NO.	CAP. mm Ø	CODE NO.	ORDER NO.	CAP. mm Ø	CODE NO.
V16040L	4.0-3.0	3000-200	V20040L	4-3	3000-210	V25040L	4-3	3000-221	V32040L	4-3	3000-240	V40040L	4-3	3000-260
V16050L	5.0-4.0	3000-201	V20050L	5-4	3000-211	V25050L	5-4	3000-222	V32050L	5-4	3000-241	V40050L	5-4	3000-261
V16060L	6.0-5.0	3000-202	V20060L	6-5	3000-212	V25060L	6-5	3000-223	V32060L	6-5	3000-242	V40060L	6-5	3000-262
V16070L	7.0-6.0	3000-203	V20070L	7-6	3000-213	V25070L	7-6	3000-224	V32070L	7-6	3000-243	V40070L	7-6	3000-263
V16080L	8.0-7.0	3000-204	V20080L	8-7	3000-214	V25080L	8-7	3000-225	V32080L	8-7	3000-244	V40080L	8-7	3000-264
V16090L	9.0-8.0	3000-205	V20090L	9-8	3000-215	V25090L	9-8	3000-226	V32090L	9-8	3000-245	V40090L	9-8	3000-265
V16100L	10.0-9.0	3000-206	V20100L	10-9	3000-216	V25100L	10-9	3000-227	V32100L	10-9	3000-246	V40100L	10-9	3000-266
			V20110L	11-10	3000-217	V25110L	11-10	3000-228	V32110L	11-10	3000-247	V40110L	11-10	3000-267
			V20120L	12-11	3000-218	V25120L	12-11	3000-229	V32120L	12-11	3000-248	V40120L	12-11	3000-268
			V20130L	13-12	3000-219	V25130L	13-12	3000-230	V32130L	13-12	3000-249	V40130L	13-12	3000-269
						V25140L	14-13	3000-231	V32140L	14-13	3000-250	V40140L	14-13	3000-270
						V25150L	15-14	3000-232	V32150L	15-14	3000-251	V40150L	15-14	3000-271
						V25160L	16-15	3000-233	V32160L	16-15	3000-252	V40160L	16-15	3000-272
									V32170L	17-16	3000-253	V40170L	17-16	3000-273
									V32180L	18-17	3000-254	V40180L	18-17	3000-274
									V32190L	19-18	3000-255	V40190L	19-18	3000-275
									V32200L	20-19	3000-256	V40200L	20-19	3000-276
												V40210L	21-20	3000-277
												V40220L	22-21	3000-278
												V40230L	23-22	3000-279
												V40240L	24-23	3000-280
												V40250L	25-24	3000-281
												V40260L	26-25	3000-282

ER TYPE COLLANT COLLET





# ER-GB Tap Collets

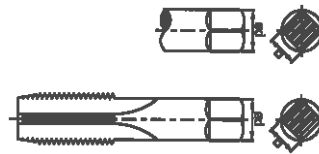


**NEW**

- Collets to DIN6499B
- Interchangeable with ER-collets
- For synchronized tapping



ER-TAP



ØD & Z



ER GB TAP COLLET

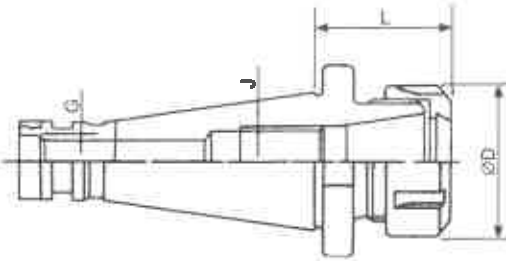
ER-25GB					ER-32GB					ER-40GB							
ORDER NO.	ØD mm	□ mm	TAP SIZE		CODE NO.	ORDER NO.	ØD mm	□ mm	TAP SIZE		CODE NO.	ORDER NO.	ØD mm	□ mm	TAP SIZE		CODE NO.
			DIN	JIS					DIN	JIS					DIN	JIS	
GB250450	4.5	3.4	M6		3000-440	GB320450	4.5	3.4	M6		3000-460						
GB250500	5	4		M4	3000-441	GB320500	5	4		M4	3000-461						
GB250550	5.5	4.5		M5	3000-442	GB320550	5.5	4.5		M5	3000-462						
GB250600	6	4.5		M6 1/4U	3000-443	GB320600	6	4.5		M6 1/4U	3000-463	GB400600	6	4.5		M6 1/4U	3000-490
GB250601	6	4.9	M8		3000-444	GB320601	6	4.9	M8		3000-464	GB400601	6	4.9	M8		3000-491
GB250610	6.1	5		5/16U	3000-445	GB320610	6.1	5		5/16U	3000-465	GB400610	6.1	5		5/16U	3000-492
GB250620	6.2	5		M8	3000-446	GB320620	6.2	5		M8	3000-466	GB400620	6.2	5		M8	3000-493
GB250700	7	5.5	M10	M10 3/8U	3000-447	GB320700	7	5.5	M10	M10 3/8U	3000-467	GB400700	7	5.5	M10	M10 3/8U	3000-494
GB250800	8	6.2		7/16U	3000-448	GB320800	8	6.2		7/16U	3000-468	GB400800	8	6.2		7/16U	3000-495
GB250850	8.5	6.5		M12	3000-449	GB320850	8.5	6.5		M12	3000-469	GB400850	8.5	6.5		M12	3000-496
GB250900	9	7.1	M12	1/2U	3000-450	GB320900	9	7.1	M12	1/2U	3000-470	GB400900	9	7.1	M12	1/2U	3000-497
GB251000	10	8			3000-451	GB321000	10	8			3000-471	GB401000	10	8			3000-498
GB251050	10.5	8		M14 9/16U	3000-452	GB321050	10.5	8		M14 9/16U	3000-472	GB401050	10.5	8		M14 9/16U	3000-499
GB251100	11	9	M14		3000-453	GB321100	11	9	M14		3000-473	GB401100	11	9	M14		3000-500
GB251200	12	9	M16	5/8U	3000-454	GB321200	12	9	M16	5/8U	3000-474	GB401200	12	9	M16	5/8U	3000-501
GB251250	12.5	10		M16	3000-455	GB321250	12.5	10		M16	3000-475	GB401250	12.5	10		M16	3000-502
						GB321400	14	11	M18	M18 3/4U	3000-476	GB401400	14	11	M18	M18 3/4U	3000-503
						GB321500	15	12		M20	3000-477	GB401500	15	12		M20	3000-504
						GB321600	16	12	M20		3000-478	GB401600	16	12	M20		3000-505
						GB321700	17	13		M22 7/8U	3000-479	GB401700	17	13		M22 7/8U	3000-506
												GB401800	18	14.5	M22		3000-507
												GB401900	19	15		M24	3000-508
												GB402000	20	15		M27 1"U	3000-509
												GB402001	20	16	M27		3000-510
												GB402200	22	18	M30		3000-511

# ER Spring Collet Chuck System

Collet Chuck Kit With ISO Taper Shank DIN 2080/ISO SHANK  
DIN 6499



NT-40



ORDER NO.	TAPER	COLLET TYPE	L	D	G	WEIGHT KGS	CODE NO.
V-101	NT-30	ER-32	55	50	1/2"-12W, M12X1.75P (USA 1/2"-UNC13)	0.7	3020-301
V-102		ER-40	70	63		1.1	3020-302
V-103	NT-40	ER-32	50	60	5/8"-11W or M16X2.0P	1.1	3021-301
V-104		ER-40	60	63		1.3	3021-302
V-105		ER-50	80	78		2	3021-303
V-106	NT-50	ER-32	60	50	1"-8W or M24X3.0P	3.1	3022-301
V-107		ER-40	65	63		3.4	3022-302
V-108		ER-50	65	78		4	3022-303
※ V-109	NT-30	ER-25	55	42	1/2"-12W, M12X1.75P	0.7	3020-303
※ V-110	NT-40	ER-25	50	42	5/8"-11W, M16X2.0P	1.1	3021-304

## Collet Chuck kit With ISO Taper Shank

Including shank, full set of collets, wrench and case.



NT-30

### Caution:

Please notify the taper size, collete type, set range, and set numbers when ordering.



ORDER NO.	TAPER	COLLET TYPE	SET RANGE	SET PCS	WEIGHT KGS	CODE NO.
V-201	NT-30	ER-32	3-20	18	4.2	3020-401
V-202			4-20	11	3.2	3020-402
V-203			6-20	6	2.8	3020-403
V-204	NT-30	ER-40	4-26	23	7.3	3020-404
V-205			4-26	15	6	3020-405
V-206			6-25	7	4.6	3020-406
V-207	NT-40	ER-32	3-20	18	4.8	3021-401
V-208			4-20	11	3.8	3021-402
V-209			6-20	6	3.4	3021-403
V-210	NT-40	ER-40	4-26	23	8.2	3021-404
V-211			4-26	15	6.9	3021-405
V-212			6-25	7	5.2	3021-406
V-213	NT-40	ER-50	12-34	12	10	3021-407
V-214	NT-50	ER-32	3-20	18	6.4	3022-401
V-215			4-20	11	5.4	3022-402
V-216			6-20	6	5.5	3022-403
V-217	NT-50	ER-40	4-26	23	9.8	3022-404
V-218			4-26	15	8.5	3022-405
V-219			6-25	7	7	3022-406
V-220	NT-50	ER-50	12-34	12	11	3022-407
※ V-223	NT-30	ER-25	2-16	7	2.8	3020-407
※ V-224			4-16	15	2.4	3020-408
※ V-225	NT-40	ER-25	2-16	7	3.3	3021-409
※ V-226			4-16	15	3.0	3021-410

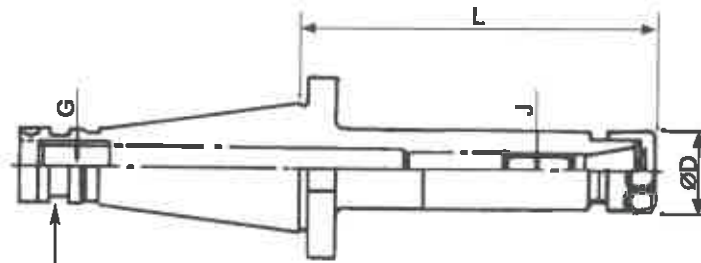


# ER Spring Collet Chuck System



Extended Collet Holder With ISO Shank  
DIN 2080/ISO SHANK EXTENDED CHUCK

DIN 6499



NT40 WITH MAHO GROOVE



ORDER NO.	TAPER	COLLET TYPE	L	D	G	WEIGHT KG	CODE NO.
V-231	NT-30	ER-16	76	28	1/2"-12W, M12X1.75P (USA 1/2"-UNC13)	0.6	3020-304
V-232	NT-40	ER-16	76	28	5/8"-11W or M16X2.0P	1.1	3021-314
V-233		ER-16	100	28		1.2	3021-305
V-234		ER-20	76	34		1.2	3021-306
V-235		ER-20	100	34		1.4	3021-307



**Extended Collet Chuck Kit With ISO Shank**  
Including shank, full set of collets, wrench and case

**Caution:**

Please notify the taper size, collet type, set range, and set numbers when ordering.



ORDER NO.	TAPER	COLLET TYPE	RANGE	PCS/SET	L	WEIGHT KGS	CODE NO.
V-241	NT-30	ER-16	1-10	10	76	1.9	3020-409
V-242			3-10	8		1.8	3020-410
V-242A		ER-20	2-13	12		1.8	3020-411
V-243	NT-40	ER-16	1-10	10	76	2.2	3021-411
V-244			3-10	8		2.1	3021-412
V-245		ER-16	1-10	10	100	2.4	3021-413
V-246			3-10	8		2.3	3021-414
V-247		ER-20	2-13	12	76	2.3	3021-415
V-248			4-13	10		2.2	3021-416
V-249		ER-20	2-13	12	100	2.6	3021-417
V-250						4-13	10

ER SYSTEM

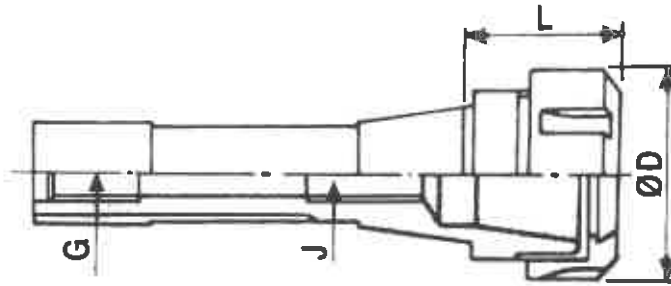


# ER Spring Collet Chuck System



Collet Holders With R-8 shank

R-8 SHANK



ORDER NO.	TAPER	COLLET TYPE	L	D	G	WEIGHT KG	CODE NO.
V-301	R8	ER-16	38	28	7/16"X20 UNF	0.5	3027-301
V-302		ER-32	40	50		0.8	3027-302
V-303		ER-40	70	63		1.3	3027-303

## Collet Chuck Kit With R-8 Shank

Including shank, full set of collets, wrench and case. (ER16 no Wrench)



### Caution:

Please notify the taper size, collete type, set range, and set numbers when ordering.



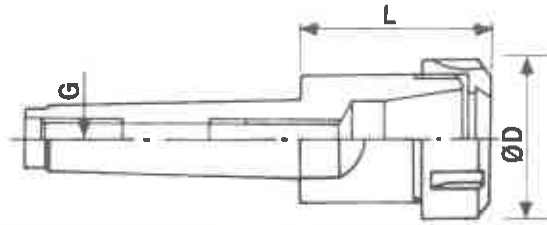
ORDER NO.	TAPER	COLLET TYPE	SET RANGE	SET PCS	WEIGHT KGS	CODE NO.
V-311	R8	ER16	1-10	10	1.5(W)	3027-401
V-312			3-10	8	1.45(P)	3027-402
V-313		ER32	3-20	18	4.3(P)	3027-403
V-314			4-20	11	3.2(P)	3027-404
V-315			6-20	6	2.9(P)	3027-405
V-316		ER40	4-26	23	7.3(P)	3027-406
V-317			4-26	15	6.1(P)	3027-407
V-318			6-25	7	4.6(P)	3027-408

# ER Spring Collet Chuck System

Collet Holders With Morse Taper Shank

DIN 6499 DIN 228

MT-SHANK  
MT / MK



ORDER NO.	TAPER	COLLET TYPE	L	D	G	WEIGHT KGS	CODE NO.
V-401	MT2	ER18	40	28	3/8"-16W or M10X1.5P	0.2	3023-301
V-402		ER20	43	34		0.3	3023-302
V-403		ER25	47	42		0.4	3023-303
V-404	MT3	ER16	40	28	3/8"-16W or 1/2"-12W	0.3	3024-301
V-405		ER32	70	50	M10X1.5P, M12X1.75P	0.8	3024-302
V-406		ER40	80	63	USA 1/2"-UNC13	1.1	3024-303
V-451		ER20	43	34	1/2"-12NC or M12X1.75P	0.3	3024-304
V-452		ER25	47	42		0.5	3024-305
V-407	MT4	ER32	60	50	5/8"-11W or M16X2.0P	1	3025-301
V-408		ER40	82	63		1.4	3025-302
V-409		ER50	85	78		2.2	3025-303
V-410	MT5	ER40	82	63	1"-8W or M24X3.0P	2.1	3026-301
V-411		ER50	85	78		2.9	3026-302

NEW

## Collet Chuck Kit With Morse Taper Shank

Including shank, full set of collets, wrench and case.

(ER16, ER20 no Wrench)

1. ER16,20,25 Packed in Wooden Box(W)

2. ER32,40,50, Packed in Plastic Box(P)

### Caution:

Please notify the taper size, collete type, set range, and set numbers when ordering.



ORDER NO.	TAPER	COLLET TYPE	SET RANGE	SET PCS	WEIGHT KGS.	CODE NO.	
V-412	MT2	ER16	1-10	10	1.05	3023-401	
V-413		ER16	3-10	8	1	3023-402	
V-414		ER20	2-13	12	1.3	3023-403	
V-415		ER20	4-13	10	1.2	3023-404	
V-416		ER25	2-16	15	2.4	3023-405	
V-418	MT3	ER25	4-16	7	1.3	3023-407	
V-419		ER16	1-10	10	1.5	3024-401	
V-420		ER16	3-10	8	1.1	3024-402	
V-441		ER20	2-13	12	1.35	3023-408	
V-442		ER20	4-13	10	1.3	3023-409	
V-443		ER25	2-16	15	2.5	3023-410	
V-444		ER25	4-16	7	2.1	3023-411	
V-421		ER32	3-20	18	4.1	3024-403	
V-422		ER32	4-20	11	3	3024-404	
V-423		ER32	6-20	6	2.7	3024-405	
V-424		ER40	4-26	23	7.2	3024-406	
V-425		ER40	4-26	15	6	3024-407	
V-426		ER40	6-25	7	4.5	3024-408	
V-427		MT4	ER32	3-20	18	4.3	3025-401
V-428			ER32	4-20	11	3.2	3025-402
V-429	ER32		6-20	6	2.9	3025-403	
V-430	ER40		4-26	23	7.3	3025-404	
V-431	ER40		4-26	15	6.1	3025-405	
V-432	ER40		6-25	7	4.6	3025-406	
V-433	ER50		12-34	12	9	3025-407	
V-434	MT5	ER40	4-26	23	8.2	3026-401	
V-435		ER40	4-26	15	6.9	3026-402	
V-436		ER40	6-25	7	5.4	3026-403	
V-437		ER50	12-34	12	9.5	3026-404	

ER SYSTEM

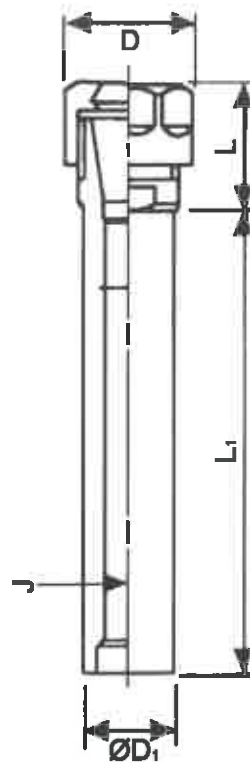


# ER Spring Collet Chuck System



Collet Holders With Straight Shank

DIN6499 STRAIGHT SHANK



**NEW**

ORDER NO.	COLLET TYPE	SHANK D1XL1	L	D	J	KGS	CODE NO.
V-530	ER11	Ø16X50	21	19	M6	0.1	3007-300
V-531		Ø16X100	21	19	M6	0.2	3007-311
V-532		Ø16X150	21	19	M6	0.3	3007-312
V-501A	ER16	Ø16X100	21	28	M10	0.3	3003-301A
V-501		Ø20X50	30	28	M10	0.2	3003-301
V-502		Ø20X100	30	28	M10	0.3	3003-302
V-503		Ø20X150	30	28	M10	0.4	3003-303
V-504		Ø25X100	30	28	M10	0.5	3003-304
V-504A		Ø25X50	30	28	M10	0.3	3003-306
V-505		Ø25X150	30	28	M10	0.7	3003-305
V-505A		Ø25X200	30	28	M10	0.5	3003-307
V-506		ER20	Ø20X50	36	34	M12	0.3
V-507	Ø20X100		36	34	M12	0.3	3004-302
V-508	Ø20X150		36	34	M10	0.5	3004-303
V-509	Ø25X150		36	34	M10	0.7	3004-304
V-509A	Ø25X100		36	34	M12	0.5	3004-305
V-509B	Ø25X50		36	34	M12	0.3	3004-306
V-510	ER25	Ø20X50	46	42	M12	0.4	3005-301
V-511		Ø20X100	46	42	M12	0.5	3005-302
V-512		Ø20X150	46	42	M12	0.6	3005-303
V-513		Ø25X100	46	42	M12	0.6	3005-304
V-514		Ø25X150	46	42	M12	0.7	3005-305
V-515		Ø32X80	46	42	M12	0.6	3005-306
V-516	ER32	Ø25X80	54	50	M12	0.8	3006-301
V-517		Ø32X100	54	50	M12	1.1	3006-302
V-517A		Ø32X150	54	50	M12	1.5	3006-305
V-518		Ø40X100	54	50	M12	1.4	3006-303
V-523	ER40	Ø32X100	55	63	M16	1.5	3007-302
V-524		Ø40X100	55	63	M16	1.8	3007-303

# ER Spring Collet Chuck System

DIN 6499 STRAIGHT SHANK



## Collet Chuck Kit With Straight Shank

Including shank, full set of collets,  
wrench and case.



### COLLET CHUCK SETS

ORDER NO.	SHANK D1XL1	COLLET TYPE	SET RANGE	SET PCS	KGS	CODE NO.	
V-601	Ø20X50L	ER16	1-10	10	0.9	3003-401	
V-602	Ø20X50L		3-10	8	0.8	3003-402	
V-603	Ø20X100L		1-10	10	1	3003-403	
V-604	Ø20X100L		3-10	8	0.9	3003-404	
V-605	Ø20X150L		1-10	10	1.1	3003-405	
V-606	Ø20X150L		3-10	8	0.5	3003-406	
V-607	Ø25X100L		1-10	10	1.1	3003-407	
V-607A	Ø25X50L		1-10	10	1.1	3003-411	
V-608	Ø25X100L		3-10	8	1.1	3003-408	
V-608A	Ø25X50L		3-10	8	1.1	3003-412	
V-609	Ø25X150L		1-10	10	1.3	3003-409	
V-610	Ø25X150L		3-10	8	1.3	3003-410	
V-611	Ø20X50L		ER20	2-13	12	1.2	3004-401
V-612	Ø20X50L			4-13	10	1.2	3004-402
V-613	Ø20X100L			2-13	12	1.2	3004-403
V-614	Ø20X100L	4-13		10	1.2	3004-404	
V-615	Ø20X150L	2-13		12	1.4	3004-405	
V-615A	Ø25X50L	2-13		12	1.3	3004-409	
V-616	Ø20X150L	4-13		10	1.3	3004-406	
V-616A	Ø25X50L	4-13		10	1.3	3004-410	
V-617	Ø25X100L	2-13		12	1.4	3004-407	
V-617A	Ø25X150L	2-13		12	1.5	3004-411	
V-618	Ø25X100L	4-13		10	1.4	3004-408	
V-618A	Ø25X150L	4-13		10	1.5	3004-412	
V-619	Ø20X50L	ER25		2-16	15	2.2	3005-401
V-621	Ø20X50L			4-16	7	1.7	3005-403
V-622	Ø20X100L			2-16	15	2.3	3005-404
V-624	Ø20X100L		4-16	7	1.8	3005-406	
V-625	Ø20X150L		2-16	15	2.4	3005-407	
V-627	Ø20X150L		4-16	7	2	3005-409	
V-628	Ø25X100L		2-16	15	2.3	3005-410	

ORDER NO.	SHANK D1XL1	COLLET TYPE	SET RANGE	SET PCS	KGS	CODE NO.
V-681	Ø16X50L	ER11	1-7	13	0.5	3002-401
V-682	Ø16X50L		1-7	7	0.5	3002-402
V-683	Ø16X100L		1-7	13	0.6	3002-403
V-684	Ø16X100L		1-7	7	0.5	3002-404

ORDER NO.	SHANK D1XL1	COLLET TYPE	SET RANGE	SET PCS	KGS	CODE NO.
V-630	Ø25X100L	ER25	6-16	7	2	3005-412
V-631	Ø25X150L		2-16	15	2.6	3005-413
V-633	Ø25X150L		6-16	7	1.9	3005-415
V-634	Ø32X60L		2-16	15	2.5	3005-416
V-636	Ø32X60L		6-16	7	1.9	3005-418
V-637	Ø25X80L	ER32	3-20	18	4.1	3006-401
V-638	Ø25X80L		4-20	11	3	3006-402
V-639	Ø25X80L		3-20	6	2.7	3006-403
V-640	Ø32X100L		4-20	18	4.3	3006-404
V-641	Ø32X100L		6-20	11	3.2	3006-405
V-642	Ø32X100L		6-20	6	2.9	3006-406
V-643	Ø40X100L		3-20	18	4.6	3006-407
V-644	Ø40X100L		4-20	11	3.5	3006-408
V-645	Ø40X100L		6-20	6	3.2	3006-409
V-646	Ø1"X3L		3-20	18	4.1	3006-410
V-647	Ø1"X3L	4-20	11	3	3006-411	
V-648	Ø1"X3L	6-20	6	2.9	3006-412	
V-658	Ø32X100L	ER40	4-26	23	7.3	3007-404
V-659	Ø32X100L		4-26	15	6.1	3007-405
V-660	Ø32X100L		6-25	7	4.6	3007-406
V-661	Ø40X100L		4-26	23	7.6	3007-407
V-662	Ø40X100L		4-26	15	6.5	3007-408
V-663	Ø40X100L		6-25	7	5	3007-409

- V-603, V-604 are the most popular item.
- THE ER-20/25/32/40 ARE TO BE CONTINUED
- V-613, V-614 are the most popular item.

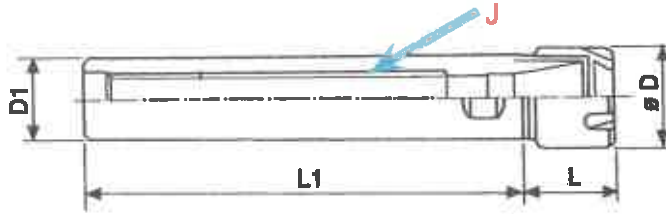
ER SYSTEM



MINI TYPE STRAIGHT SHANK HOLDER

DIN 6499 MINI STRAIGHT SHANK

**NEW**



MINI TYPE NUT

## Collet Chuck Kit With Straight Shank

Including shank, full set of collets, wrench and case.

### COLLET HOLDER (MINI TYPE)

ORDER NO.	COLLET TYPE	SHANK D1XL1	D	L	J	KGS	CODE NO.
V-541	ER8M	ST08X50L	12	24		0.04	3001-290
V-542		ST10X50L				0.05	3001-291
V-543		ST10X80L				0.07	3001-292
V-544		ST12X50L				0.05	3001-293
V-545		ST12X100L				0.09	3001-294
V-546		ST12X150L				0.12	3001-295
V-551	ER11M	ST16X50L	16	22	M6	0.1	3011-301
V-552		ST16X100L	16			0.2	3011-302
V-552A		ST16X150L	16			0.3	3011-303
V-553	ER16M	ST20X50L	22	32	M10	0.2	3012-301
V-554		ST20X100L	22			0.3	3012-302
V-555		ST20X150L	22			0.4	3012-303
V-555A		ST20X200L	22			0.4	3012-307
V-556	ER20M	ST20X50L	28	33	M12	0.2	3013-301
V-557		ST20X100L	28			0.3	3013-302
V-558		ST20X150L	28			0.4	3013-303
V-559		ST25X100L	28			0.4	3013-304
V-560		ST25X150L	28			0.6	3013-305
V-561	ER16M	ST16X100L	22	22	M10	0.2	3012-304
V-562		ST25X100L	22			0.4	3012-305
V-563		ST25X150L	22			0.6	3012-306
V-563A		ST25X200L	22			0.5	3012-308
V-557A	ER20M	ST20X200L	28	35	M10	0.4	3013-306
V-560A		ST25X200L	28			0.5	3013-307

\* For the 50L A side of the shank is milled has flate surface.



### MINI TYPE

ORDER NO.	SHANK D1XL1	COLLET TYPE	SET RANGE	SET PCS	KGS	CODE NO.
V-691A	ST16X50L	ER11M	1-7	7	0.5	3011-401
V-691B	ST16X50L		1-7	13	0.5	3011-402
V-692A	ST16X100L		1-7	7	0.6	3011-403
V-692B	ST16X100L		1-7	13	0.6	3011-404
V-693A	ST20X50L	ER16M	1-10	10	0.7	3012-401
V-693B	ST20X50L		3-10	8	1.0	3012-402
V-693C	ST16X100L		1-10	10	0.6	3012-407
V-694A	ST20X100L		1-10	10	0.9	3012-403
V-694B	ST20X100L		3-10	8	1.1	3012-404
V-695A	ST20X150L	ER20M	1-10	10	1.3	3012-405
V-695B	ST20X150L		3-10	8	1.2	3012-406
V-695C	ST25X100L		1-10	10	1.2	3012-408
V-695D	ST25X150L		1-10	10	1.4	3012-409
V-696A	ST20X50L	ER20M	2-13	12	1.3	3013-401
V-696B	ST20X50L		4-13	10	1.2	3013-402
V-697A	ST20X100L		2-13	12	1.1	3013-403
V-697B	ST20X100L		4-13	10	1.1	3013-404
V-698A	ST20X150L		2-13	12	1.2	3013-405
V-698B	ST20X150L		4-13	10	1.2	3013-406
V-698C	ST25X100L		2-13	12	1.4	3013-407
V-698D	ST25X150L		2-13	12	1.5	3013-408



MINI TYPE NUT



# Clamping Nuts For Collets



ER CLAMPING NUT SYSTEM

DIN 6499



ER20M



ER16M



ER11MS



ER40KM  
WITH A BEARING



ER40UM



ER16UM

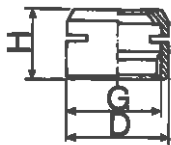


FIG.1 ER11,16,20MS

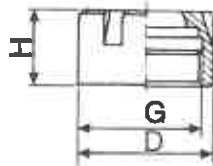


FIG.2 ER11,16,20M  
ER8M, 25M

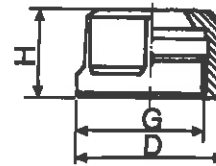


FIG.3 ER11,16,20UM

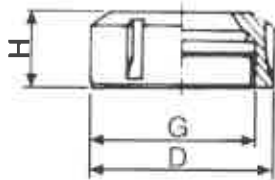


FIG.4 ER25,32,40,50UM

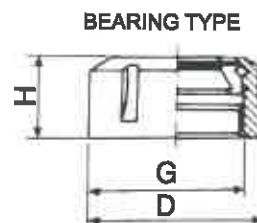


FIG.5 ER40,50KM

BEARING TYPE



ER NUT SYSTEM

## CLAMPING NUTS

ORDER NO.	Fig.	COLLET TYPE	D	H	G	WEIGHT KG.	CODE NO.
V-800	3	ER11UM	19	11.5	M14X0.75P	0.04	3015-001
V-801	3	ER16UM	28	17	M22X1.5P	0.05	3015-002
V-802	3	ER20UM	34	19	M25X1.5P	0.09	3015-003
V-803	4	ER25UM	42	20	M32X1.5P	0.13	3015-004
V-804	4	ER32UM	50	23	M40X1.5P	0.14	3015-005
V-805	4	ER40UM	63	25	M50X1.5P	0.25	3015-006
V-806	4	ER50UM	78	35	M64X2.0P	0.5	3015-007
V-807	1	ER11MS	16	12	M13X0.75P	0.008	3015-008
V-808	2	ER16M	22	18	M19X1.0P	0.03	3015-009
V-809	2	ER20M	28	19	M24X1.0P	0.045	3015-010
V-810A	5	ER40KM	63	29	M50X1.5P	0.3	3015-011
V-810B	5	ER50KM	78	40	M64X2.0P	0.58	3015-012
V-810C	2	ER11M	16	12	M13X0.75P	0.02	3015-013
V-810D	2	ER8M	12	10.8	M10X0.75P	0.05	3015-014
V-810E	2	ER25M	35	20	M30X1.0P	0.05	3015-015
V-811A		ER16MS	22	18	M19X1.0P	0.02	3015-016
V-811B		ER20MS	28	19	M24X1.0P	0.035	3015-017



# Clamping Wrench For Collets



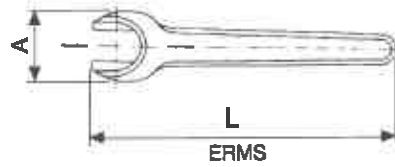
ER WRENCH SYSTEM

DIN6499

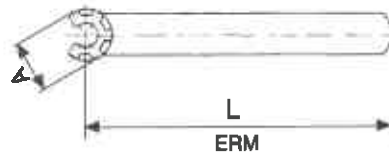
ER



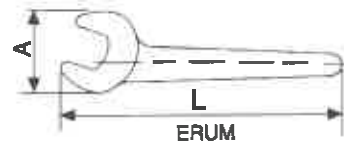
ERMS



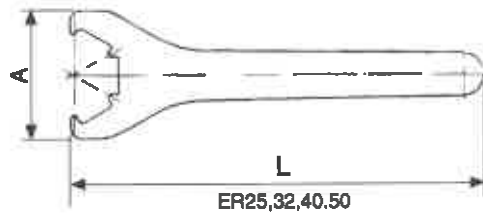
ERM



ERUM11, 16, 20



ERUM25, 32, 40, 50



ORDER NO.	TYPE	A	L	KGS	CODE NO.
V-820	ER11UM	35	135	0.07	3015-100
V-821	ER11MS	22	100	0.07	3015-101
V-822	ER11M	17	95	0.05	3015-102
V-823	ER16M	22.5	118	0.06	3015-103
V-815	ER16UM	44	140	0.08	3015-104
V-824	ER20M	28	130	0.08	3015-105
V-816	ER20UM	53	170	0.1	3015-106
V-811	ER25UM	65	210	0.2	3015-107
V-812	ER32UM	75	250	0.4	3015-108
V-813	ER40UM	90	290	0.5	3015-109
V-814	ER50UM	110	350	0.9	3015-110
V-817	ER8M	13	75	0.04	3015-111
V-818	ER25M	36.5	135	0.1	3015-112
V-825	ER40KM	90	290	0.5	3015-113
V-826	ER50KM	110	350	0.9	3015-114
V-827	ER16MS	32	120	0.12	3015-115
V-828	ER20MS	38	150	0.15	3015-116

# ER Spring Collet Chuck System

Collet Holders With BT Taper Shank  
(For CNC Machine Center)  
ER-32 ER-40

MAS403 BT-SHANK

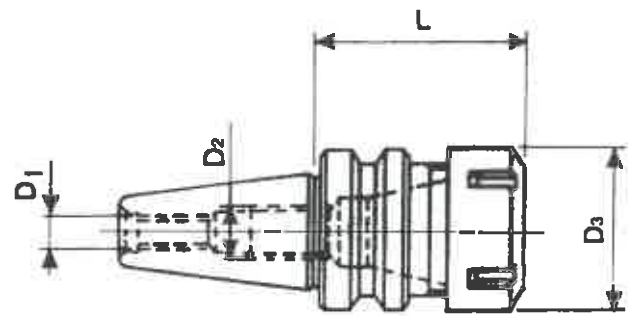


BT-40-ER32



BT-40-ER20M

ACCURACY  
RUNOUT 0.005mm  
TAPER SHANK AT-3  
R.P.M. 7000



ER SYSTEM

ORDER NO.	TAPER	COLLET TYPE	D1	D2	D3	L	KGS	CODE NO.
V-700	BT30	ER32	M12	M12X1.75P	50	60	0.7	3031-303
V-703A	BT40	ER32	M16X2.0P	M22X1.5P	50	70	1.4	3032-305
V-703B		ER32	M16X2.0P	M22X1.5P	50	100	1.7	3032-306
V-704		ER40	M16X2.0P	M22X1.5P	63	80	1.7	3032-307
V-704B		ER40	M16X2.0P	M22X1.5P	63	100	2	3032-421
V-705	BT50	ER32	M24X3.0P	M28X1.5P	50	100	4.5	3033-305
V-706		ER40	M24X3.0P	M28X1.5P	63	100	4.6	3033-306
V-706B		ER40	M24X3.0P	M28X1.5P	63	150	5.7	3033-307
V-707		ER50	M24X3.0P	M36X1.5P	78	100	5.1	3033-308
V-710	BT30	ER11	M12	M12X1.75P	19	60	0.5	3033-311
V-711		ER11	M12	M12X1.75P	19	100	0.6	3033-312
V-712		ER11M	M12	M12X1.75P	16	100	0.9	3033-313
V-713		ER16	M12	M12X1.75P	28	100	0.8	3033-314
V-714		ER16M	M12	M12X1.75P	22	100	0.7	3033-315
V-715		ER20	M12	M12X1.75P	34	60	0.6	3033-316
V-716		ER20	M12	M12X1.75P	34	100	0.9	3033-317
V-717		ER20M	M12	M12X1.75P	28	100	0.9	3033-318
V-718		ER25	M12	M12X1.75P	42	60	0.7	3033-319
V-719		ER40	M12	M12X1.75P	63	70	1	3033-320
V-720	BT40	ER11	M16	M22X11.5P	19	70	1.2	3033-321
V-721		ER11	M16	M22X11.5P	19	100	1.5	3033-322
V-722A		ER11M	M16	M22X11.5P	16	100	1.05	3033-323
V-722B		ER11M	M16	M22X11.5P	16	150	1.3	3033-323A
V-723A		ER16M	M16	M22X11.5P	22	100	1.3	3033-324
V-723B		ER16M	M16	M22X11.5P	22	150	1.5	3033-330
V-724A		ER20M	M16	M22X11.5P	28	100	1.6	3033-325
V-724B		ER20M	M16	M22X11.5P	28	150	1.6	3033-331
V-725		ER25	M16	M22X11.5P	42	70	1.3	3033-326
V-726		ER25	M16	M22X11.5P	42	100	1.6	3033-327
V-727	ER50	M16	M22X11.5P	78	90	2.2	3033-328	



# ER Spring Collet Chuck System

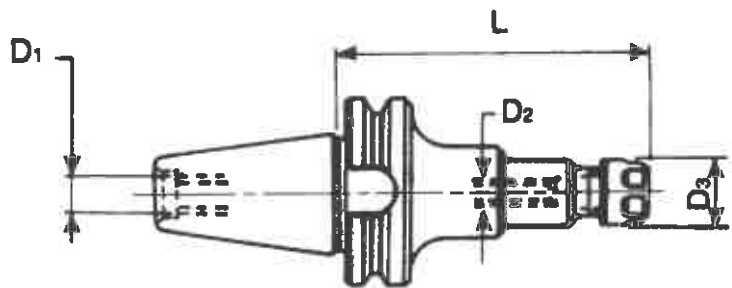


Collet Holders With Extension Type BT Taper Shank  
ER-16, ER-20



BT-40-ER20

ACCURACY  
RUNOUT 0.005mm  
TAPER SHANK AT-3  
R.P.M. 7000



ORDER NO.	TAPER	COLLET TYPE	D3	L	D1	WEIGHT KGS	CODE NO.
V-770	BT30	ER16	28	60	M12	0.6	3031-301
V-772	BT40	ER16	28	70	M16	1.2	3032-301
V-773		ER16	28	100	M16	1.4	3032-302
V-774		ER20	34	70	M16	1.3	3032-303
V-774A		ER16	28	150	M16	1.7	3032-308
V-775		ER20	34	100	M16	1.5	3032-304
V-775A		ER20	34	135	M16	1.6	3032-309
V-775B		ER20	34	150	M16	1.9	3032-310
V-775C		ER25	42	150	M16	2.1	3032-311
V-733		ER32	50	150	M16	2	3033-354
V-776		BT50	ER16	28	100	M24	2.3
V-777	ER16		28	150	M24	4.3	3033-302
V-778	ER20		34	100	M24	4.1	3033-303
V-779	ER20		34	150	M24	4.8	3033-304
V-743A	BT50	ER16	28	200	M24	7.5	3033-364
V-735		ER20	34	200	M24	5	3033-356
V-736		ER25	42	100	M24	4.3	3033-357
V-737A		ER25	42	150	M24	4.8	3033-358
V-744A		ER25	42	200	M24	8	3033-365
V-738A		ER32	50	150	M24	5.5	3033-359
V-739A		ER32	50	200	M24	6.5	3033-360
V-741A		ER40	63	200	M24	7.5	3033-362
V-742A		ER50	78	150	M24	6.7	3033-363



ER



### Collet Chuck Kit With BT Taper Shank

Including shank, full set of collets, wrench and case.

1. ER16, ER20 PACKED IN WOODEN BOX
2. ER32, ER40, ER50, PACKED IN PLASTIC BOX
3. PACKAGE INCLUDING : CHUCK, COLLET, WRENCH, BOX

#### Caution:

Please notify the taper size, collet type, set range, and set numbers when ordering.



ER SYSTEM

ORDER NO.	BT TAPER	COLLET TYPE	SET RANGE	COLLET PCS	WEIGHT KGS	CODE NO.
V-780	BT30-60L	ER16	1-10	10	1.9	3031-401
V-780A	BT30-100L	ER16	1-10	10	2	3031-406
V-781	BT40-70L	ER16	1-10	10	2.3	3032-401
V-782	BT40-100L	ER16	1-10	10	2.7	3032-402
V-783	BT30-60L	ER20	2-13	12	2.5	3031-402
V-783A	BT30-100L	ER20	2-13	12	2.6	3032-413
V-783B	BT30-60L	ER25	2-16	15	2.5	3032-414
V-783C	BT30-60L	ER25	4-16	7	2.8	3032-415
V-784	BT40-100L	ER20	2-13	12	3	3032-403
V-784A	BT40-70L	ER20	2-13	12	2.8	3032-416
V-784B	BT40-70L	ER25	2-16	15	3.2	3032-417
V-784C	BT40-100L	ER25	4-16	7	3	3032-418
V-785	BT30-80L	ER32	3-20	18	4.4	3031-403
V-786	BT30-80L	ER32	4-20	11	3.8	3031-404
V-787	BT30-60L	ER32	6-20	6	3.4	3031-405
V-788	BT40-70L	ER32	3-20	18	5.2	3032-404
V-789	BT40-70L	ER32	4-20	11	4.2	3032-405
V-790	BT40-70L	ER32	6-20	6	3.8	3032-406
V-791	BT40-100L	ER32	3-20	18	5.7	3032-407
V-792	BT40-100L	ER32	4-20	11	4.7	3032-408
V-793	BT40-100L	ER32	6-20	6	4.3	3032-409
V-794	BT40-80L	ER40	4-26	23	8.9	3032-410
V-795	BT40-80L	ER40	4-26	15	7.6	3032-411
V-796	BT40-80L	ER40	6-25	7	6	3032-412
V-797	BT50-100L	ER40	4-26	23	11.3	3033-401
V-798	BT50-100L	ER40	4-26	15	10	3033-402
V-799	BT50-100L	ER40	6-26	7	8.5	3033-403
V-737	BT50-150L	ER40	4-26	23	12.2	3033-404
V-738	BT50-150L	ER40	4-26	15	11	3033-405
V-739	BT50-150L	ER40	6-26	7	9.5	3033-406
V-740	BT50-100L	ER50	12-34	12	12	3033-407
V-740C	BT40-90L	ER50	12-34	12	9	3033-408
V-740B	BT50-100L	ER32	3-20	18	7.5	3033-409

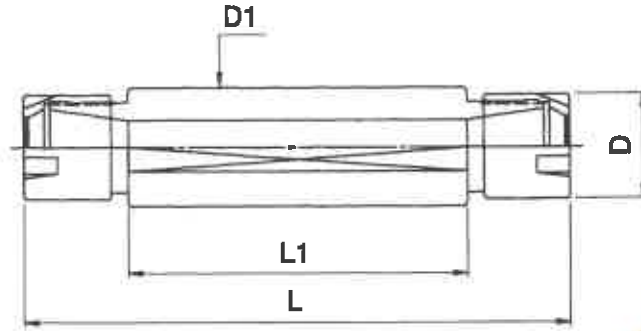


# ST/ER Straight Shank With Double Head Spindle



M TYPE DOUBLE HEAD

FOR CNC LATHE ONLY



ORDER NO.	COLLET TYPE	SHANK (ØD1-ER-L1)	L	L1	D	WEIGHT (KGS)	CODE NO.
V-830	ER11	Ø20-ER11M2-50	70	50	16	0.2	3032-430
V-831	ER11	Ø20-ER11M2-78	108	78	16	0.3	3032-431
V-832	ER16	Ø20-ER16M2-50	82	50	22	0.2	3032-432
V-833	ER16	Ø20-ER16M2-70	112	70	22	0.32	3032-433
V-834	ER16	Ø25-ER16M2-50	92	50	22	0.25	3032-434
V-835	ER16	Ø25-ER16M2-80	122	80	22	0.35	3032-435
V-836	ER20	Ø25-ER20M2-50	92	50	28	0.3	3032-436
V-837	ER20	Ø25-ER20 M2-80	122	80	28	0.35	3032-437

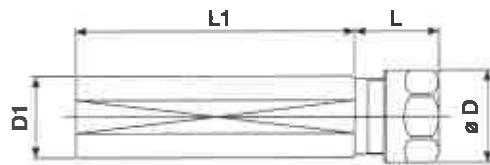


# ST/ER Straight Shank With Single Head Spindle

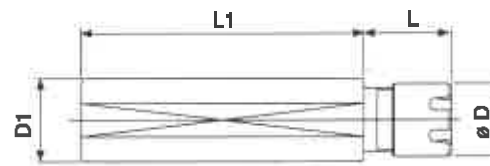
M TYPE SINGLE HEAD

UM TYPE

FOR CNC LATHE ONLY



M TYPE SINGLE HEAD



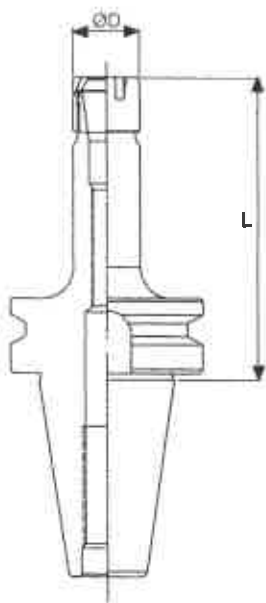
UM TYPE



ORDER NO.	COLLET TYPE	SHANK (ØD1-ER-L1)	L	L1	D	WEIGHT (KGS)	CODE NO.
V-841	ER16	Ø20-ER16M-70	21	70	22	0.2	3032-441
V-842	ER16	Ø25-ER16M-70	21	70	22	0.25	3032-442
V-843	ER16	Ø3/4"-ER16M-70	21	70	22	0.2	3032-443
V-844	ER16	Ø20-ER16UM-70	21	70	28	0.2	3032-444
V-845	ER16	Ø25-ER16UM-70	21	70	28	0.25	3032-445
V-846	ER16	Ø3/4"-ER16UM-70	21	70	28	0.2	3032-446
V-847	ER20	Ø22-ER20UM-70	23	70	34	0.25	3032-447
V-848	ER20	Ø25-ER20UM-70	23	70	34	0.3	3032-448



ULTRA PRECISION TYPE  
 MAX. SPEED: 15,000RPM; G2.5  
 DYNAMIC BALANCE TESTED



ORDER NO.	L	ØD	COLLET	WEIGHT (kg)	CODE NO.
BT30-ER11-60-B	60	19	ER11	0.5	3033-500
BT30-ER11-100-B	100	19	ER11	0.55	3033-501
BT30-ER16-60-B	60	28	ER16	0.5	3033-502
BT30-ER16-100-B	100	28	ER16	0.7	3033-503
BT30-ER20-60-B	60	34	ER20	0.55	3033-504
BT30-ER20-100-B	100	34	ER20	0.8	3033-505
BT30-ER25-60-B	60	42	ER25	0.6	3033-506
BT30-ER32-60-B	60	50	ER32	0.65	3033-507
BT40-ER11-70-B	70	19	ER11	1	3033-509
BT40-ER11-100-B	100	19	ER11	1.1	3033-510
BT40-ER16-70-B	70	28	ER16	1.1	3033-511
BT40-ER16-100-B	100	28	ER16	1.2	3033-512
BT40-ER20-70-B	70	34	ER20	1.2	3033-514
BT40-ER20-100-B	100	34	ER20	1.4	3033-515
BT40-ER25-70-B	70	42	ER25	1.2	3033-518
BT40-ER25-100-B	100	42	ER25	1.45	3033-519
BT40-ER32-70-B	70	50	ER32	1.3	3033-521
BT40-ER32-100-B	100	50	ER32	1.5	3033-522
BT30-ER11M-100-B	100	16	ER11	0.5	3033-523
BT30-ER16M-100-B	100	22	ER16	0.55	3033-524
BT30-ER20M-100-B	100	28	ER20	0.65	3033-525
BT40-ER11M-100-B	100	16	ER11	1.05	3033-526
BT40-ER16M-100-B	100	22	ER16	1.1	3033-527
BT40-ER20M-100-B	100	28	ER20	1.2	3033-528

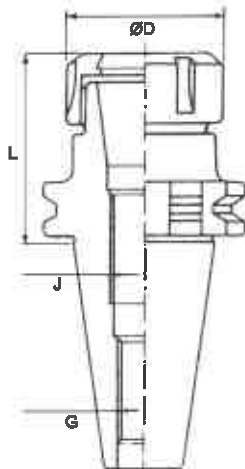
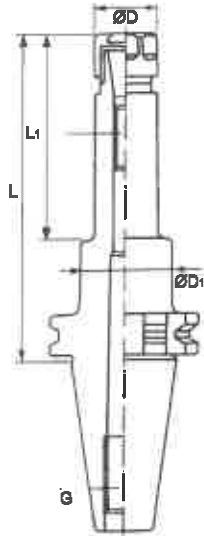




# ER-SK Taper Shank



**COLLET HOLDER WITH SK-SHANK  
DIN 69871**



**ER**



**& COLLET CHUCK SET DIN 69871**



ORDER NO.	COLLET TYPE	TAPER	D	L	G	WEIGHT KGS	CODE NO.
V-741	ER16	SK40	28	100	M16	1.5	3029-301
V-741K	ER16	SK30	28	60	M12	0.45	3029-311
V-741B	ER16	SK50	28	100	M24	3.5	3029-317
V-742	ER20	SK40	34	100	M16	1.5	3029-302
V-742C	ER16	SK40	28	70	M16	1.1	3029-315
V-742D	ER20	SK40	34	70	M16	1.2	3029-316
V-742E	ER20	SK50	34	100	M24	3.5	3029-318
V-744	ER20	SK50	34	150	M24	4.8	3030-302



ORDER NO.	COLLET TYPE	TAPER	D	L	G	WEIGHT KGS	CODE NO.
V-745	ER32	SK40	50	70	M16	1.2	3029-303
V-745A	ER32	SK30	50	60	M12	0.8	3029-314
V-745B	ER32	SK50	50	100	M24	3.7	3029-320
V-746	ER40	SK40	63	80	M16	1.6	3029-304
V-747	ER40	SK50	63	100	M24	4.2	3030-303
V-749	ER25	SK40	42	70	M16	1.1	3030-304
V-749A	ER25	SK50	42	100	M24	3.4	3029-319



## COLLET CHUCK KIT WITH SK-SHANK DIN 69871

INCLUDING SHANK, FULL SET OF COLLETS,  
WRENCH AND CASE.

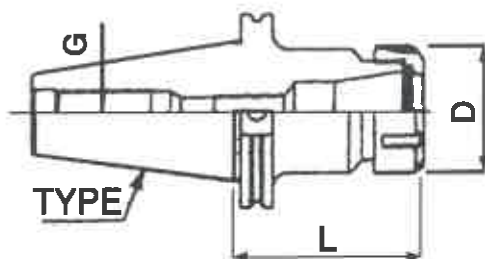
**ER**



ORDER NO.	ER TYPE	SK TAPER	SET RANGE	SET PCS	WEIGHT KGS	CODE NO.
V-751	ER16	SK40-70L	1-10	10PCS	2.3	3029-401
V-751A	ER16	SK30-60L	1-10	10PCS	1.8	3029-420
V-752	ER20	SK40-70L	2-13	12PCS	3	3029-402
V-752A	ER20	SK30-60L	2-13	12PCS	2.4	3029-421
V-753	ER32	SK40-70L	3-20	18PCS	5.2	3029-403
V-754	ER32	SK40-70L	4-20	11PCS	4.2	3029-404
V-754A	ER32	SK30-60L	3-20	18PCS	4.2	3029-423
V-754B	ER32	SK50-100L	3-20	18PCS	7	3029-424
V-755	ER32	SK40-60L	6-20	6PCS	3.8	3029-405
V-756	ER40	SK40-80L	4-26	23PCS	8.9	3029-406
V-757	ER40	SK40-80L	4-26	15PCS	7.6	3029-407
V-758	ER40	SK40-80L	6-25	7PCS	6	3029-408
V-759	ER40	SK50-100L	4-26	23PCS	11.3	3030-401
V-760	ER40	SK50-100L	4-26	15PCS	10	3030-402
V-761	ER40	SK50-100L	6-26	7PCS	8.5	3030-403
V-762	ER25	SK40-70L	2-16	15PCS	3.5	3029-409
V-763	ER25	SK40-70L	4-26	7PCS	3.2	3029-410

ER16, ER20 PACKED IN WOODEN CASE  
ER32, ER40 PACKED IN PLASTIC CASE

## COLLET HOLDER WITH CAT-SHANK



ORDER NO.	COLLET TYPE	TAPER	D	L	G	WEIGHT KGS	CODE NO.
V-870	ER16	CAT30	28	2"	1/2"-13	0.8	3034-301
V-871	ER16	CAT40	28	3"	5/8"-11	1.1	3035-301
V-872	ER20		34	3"		1.2	3035-302
V-873	ER25		42	2-1/2"		1.2	3035-303
V-874	ER32		50	2-1/2"		1.2	3035-304
V-875	ER40		63	3"		1.5	3035-305
V-876	ER40		CAT50	63		3-1/2"	1/8"

## COLLET CHUCK KIT WITH CAT-SHANK

INCLUDING SHANK, FULL SET OF COLLET, WRENCH AND CASE.

1. ER16, ER20, ER25 PACKED IN WOODEN BOX.
2. ER32, ER40, PACKED IN PLASTIC BOX.
3. PACKAGE INCLUDING: CHUCK, COLLET, WRENCH, BOX.



ORDER NO.	COLLET TYPE	CAT TAPER	SET RANGE	SET PCS	WEIGHT KGS	CODE NO.
V-878	ER16	CAT40-3"L	1.0-10	10	2.3	3035-401
V-879	ER20	CAT40-3"L	2.0-13	12	2.5	3035-402
V-880	ER25	CAT40-2 1/2"L	2.0-16	15	3	3035-403
V-881		CAT40-2 1/2"L	4.0-16	7	2.6	3035-404
V-882	ER32	CAT40-2 1/2"L	3.0-20	18	5.2	3035-405
V-883		CAT40-2 1/2"L	4.0-20	11	4.2	3035-406
V-884		CAT40-2 1/2"L	6.0-20	6	3.8	3035-407
V-885	ER40	CAT40-3"L	4.0-26	23	8.9	3035-408
V-886		CAT40-3"L	4.0-26	15	7.6	3035-409
V-887		CAT40-3"L	6.0-25	7	6	3035-410
V-888	ER40	CAT50-3 1/2"L	4.0-26	23	11.2	3036-401
V-889		CAT50-3 1/2"L	4.0-26	15	9.8	3036-402
V-890		CAT50-3 1/2"L	6.0-25	7	8.3	3036-403



# Milling Chuck



**COLLET HOLDER WITH #25  
COLLET CHUCK DIN 6388 TYPE A  
OZ-25**

**DIN 6388 # 25 SERIES  
DIN 2080 NT-SHANK**



OZ -SERIES

1. Best selected quality tool steel hardened & Precision ground.
2. Accuracy of concentric to within 0.008" per inch. (0.02mm per 25 mm)
3. High rigidity & Clamping force.
4. 1 set including : 1 chuck shank holder  
1 wrench ; 1 case.  
7 or 15 pcs of collet.



## CHUCK SHANK ONLY

ORDER NO.	CHUCK SHANK	DRAW BAR THREADS		WEIGHT (kg)		MEAS. CFT	CODE NO.
		SAE	METRIC	SAE	METRIC		
VB-MT-2	MT2		M10X1.5P	1	1	0.3	3101-001
VB-MT-3	MT3	3/8"-16	M10X1.5P	1.1	1	0.3	3101-002
		1/2"-12	M12X1.75P				
		1/2"-13	M12X1.75P				
VB-MT-4	MT4	5/8"-11	M16X2.0P		1.4	0.3	3101-003
VB-MT-5	MT5	1"-8	M24X3.0P		2	0.5	3101-004
VB-R8	R-8	7/16"-20		1.3		0.3	3101-005
VB-NT30	NT30	1/2"-12	M12X1.75P	1.1	1.1	0.3	3101-006
		1/2"-13					
VB-NT40	NT40	5/8"-11	M16X2.0P	1.5	1.5	0.3	3101-007
VB-NT50	NT50	1"-8	M24X3.0P	3.4	3.4	0.5	3101-008

Please Notify the Draw Bar Thread Size When ordering.



# Milling Collet Chuck Kit



**INCLUDING SHANK, FULL SET OF COLLETS, WRENCH AND CASE, COLLET CHUCK KIT**

**DIN 6388 OZ-25 TYPE**



DIFFERENT SHANK STYLE



OZ



OZ SYSTEM



## FULL SET

ORDER NO.	COLLETS SIZE OZ-25		PCS	WEIGHT (KGS)	CODE NO.
	TAPER	COLLETS			
VB-101	NT30	Inch 1/8"-1" 15PCS 1/4"-1" 7PCS  Metric 3mm-25mm 15pcs 6mm-25mm 7pcs	7	3.7	3101-101
VB-102			15	5.2	3101-102
VB-103	NT40		7	4	3101-103
VB-104			15	5.5	3101-104
VB-105	NT50		7	6.5	3101-105
VB-106			15	8.5	3101-106
VB-107	MT3		7	3.3	3101-107
VB-108			15	5.2	3101-108
VB-109	MT4		7	3.9	3101-109
VB-110			15	5.4	3101-110
VB-111	MT5		7	4.7	3101-111
VB-112			15	6.2	3101-112
VB-113	R8		7	3.7	3101-113
VB-114			15	5.2	3101-114
VB-115	MT2		7	3.6	3101-115
VB-116		15	5.1	3101-116	

Please Notify the Type Size, Collet Type, Set Range, and Set Numbers When Ordering.

## CONTENT COLLET SET SIZE

7 PCS/SET	MM	6, 8, 10, 12, 16, 20, 25MM
	INCH	1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 1"
15 PCS/SET	MM	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 16, 18, 20, 25MM
	INCH	1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"



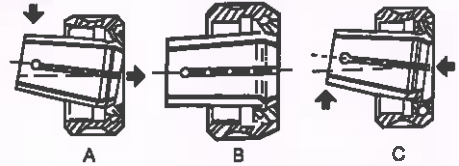
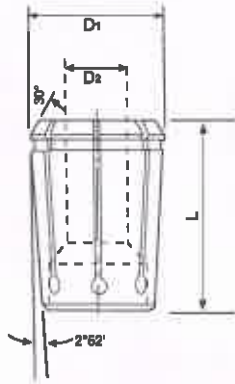
# DIN 6388 Collet For Milling Chuck



COLLET DIN 6388, TYPE A

DIN 6388 #16,#25,#32 SERIES

COLLET MUST BE ASSEMBLED INTO THE CLAMPING NUT BEFORE INSERTING INTO THE CHUCK



## METRIC

ORDER NO.	D1	L	D2(MM)
OZ-16-□	25.5	40	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16
OZ-25-□	35.05	52	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 20, 25
OZ-32-□	44	60	6, 8, 10, 12, 16, 20, 25, 32

## INCH

ORDER NO.	D1	L	D2(INCH)
OZ-25-□	35.05	52	1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"
OZ-32-□	43.7	60	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1 1/8", 1 1/4"

■ RANGE SIZE:3-25(1/8"-1")

OZ-25 ■ D:35.05 ■ L:52 ■ TAPER:1:10 ■ WEIGHT:0.18KGS

ORDER NO.	MM SIZE	CODE NO.
OZ-2503	3.0	3100-101
OZ-2504	4.0	3100-102
OZ-2505	5.0	3100-103
OZ-2506	6.0	3100-104
OZ-2507	7.0	3100-105
OZ-2508	8.0	3100-106
OZ-2509	9.0	3100-107
OZ-2510	10	3100-108
OZ-2511	11	3100-109
OZ-2512	12	3100-110
OZ-2513	13	3100-111
OZ-2514	14	3100-112
OZ-2515	15	3100-113
OZ-2516	16	3100-114
OZ-2517	17	3100-115
OZ-2518	18	3100-116
OZ-2519	19	3100-117
OZ-2520	20	3100-118
OZ-2521	21	3100-119
OZ-2522	22	3100-120
OZ-2523	23	3100-121
OZ-2524	24	3100-122
OZ-2525	25	3100-123

ORDER NO.	INCH SIZE	CODE NO.
OZ-2526	1/8"	3100-124
OZ-2527	3/16"	3100-125
OZ-2528	1/4"	3100-126
OZ-2529	5/16"	3100-127
OZ-2530	3/8"	3100-128
OZ-2531	7/16"	3100-129
OZ-2532	1/2"	3100-130
OZ-2533	9/16"	3100-131
OZ-2534	5/8"	3100-132
OZ-2535	11/16"	3100-133
OZ-2536	3/4"	3100-134
OZ-2537	13/16"	3100-135
OZ-2538	7/8"	3100-136
OZ-2539	15/16"	3100-137
OZ-2540	1"	3100-138

# DIN 6388 Collet For Milling Chuck

**COLLET DIN 6388, TYPE A**

**DIN 6388 #16,#25,#32 SERIES**

COLLET MUST BE ASSEMBLED INTO THE CLAMPING NUT BEFORE INSERTING INTO THE CHUCK



DIN6388 32# OZ-32 ■ RANGE SIZE:6-32(1/4"-1 1/4")  
 ■ D:43.7 ■ L:60 ■ TAPER:1:10  
 ■ WEIGHT:0.25KGS

ORDER NO.	MM SIZE	CODE NO.
OZ-3206	6.0	3100-201
OZ-3207	7.0	3100-202
OZ-3208	8.0	3100-203
OZ-3209	9.0	3100-204
OZ-3210	10	3100-205
OZ-3211	11	3100-206
OZ-3212	12	3100-207
OZ-3213	13	3100-208
OZ-3214	14	3100-209
OZ-3215	15	3100-210
OZ-3216	16	3100-211
OZ-3217	17	3100-212
OZ-3218	18	3100-213
OZ-3219	19	3100-214
OZ-3220	20	3100-215
OZ-3221	21	3100-216
OZ-3222	22	3100-217
OZ-3223	23	3100-218
OZ-3224	24	3100-219
OZ-3225	25	3100-220
OZ-3226	26	3100-221
OZ-3227	27	3100-222
OZ-3228	28	3100-223
OZ-3229	29	3100-224
OZ-3230	30	3100-225
OZ-3231	31	3100-226
OZ-3232	32	3100-227

ORDER NO.	INCH SIZE	CODE NO.
OZ-3233	1/4"	3100-228
OZ-3234	5/16"	3100-229
OZ-3235	3/8"	3100-230
OZ-3236	7/16"	3100-231
OZ-3237	1/2"	3100-232
OZ-3238	9/16"	3100-233
OZ-3239	5/8"	3100-234
OZ-3240	11/16"	3100-235
OZ-3241	3/4"	3100-236
OZ-3242	13/16"	3100-237
OZ-3243	7/8"	3100-238
OZ-3244	15/16"	3100-239
OZ-3245	1"	3100-240
OZ-3246	1-1/8"	3100-241
OZ-3247	1-1/4"	3100-242

**NEW** ■ DIN 6388 16#  
 ■ OZ-16 COLLET

ORDER NO.	MM SIZE	CODE NO.
OZ-1602	2.0	3100-001
OZ-1603	3.0	3100-002
OZ-1604	4.0	3100-003
OZ-1605	5.0	3100-004
OZ-1606	6.0	3100-005
OZ-1607	7.0	3100-006
OZ-1608	8.0	3100-007
OZ-1609	9.0	3100-008
OZ-1610	10	3100-009
OZ-1611	11	3100-010
OZ-1612	12	3100-011
OZ-1613	13	3100-012
OZ-1614	14	3100-013
OZ-1615	15	3100-014
OZ-1616	16	3100-015

OZ SYSTEM

## DIN 6388 Nuts & Wrench

**BALL BEARING, NUTS FOR COLLETS DIN6388, TYPE A**



ORDER NO.	C	D1	D3	COLLETS	WEIGHT kgs	CODE NO.
OZ-25N	33	60	M48X2	OZ-25	0.3	3100-301
OZ-32N	40	72	M60X2.5	OZ-32	0.7	3100-302

Unit:mm

**WRENCH FOR COLLETS DIN6388 TYPE A**



ORDER NO.	D1	COLLETS	WEIGHT kgs	CODE NO.
OZ-25W	60	OZ-25	0.35	3100-310
OZ-32W	72	OZ-32	0.4	3100-311

Unit:mm

# Milling Collet Chuck



**OZ-25**  
COLLET HOLDER WITH BT-SHANK

**DIN 6388 # 25 SERIES MAS 403**  
BT-SHANK



ORDER NO.	TAPER	DIN 6388	L	DRAW BAR	WEIGHT KGS	CODE NO.
VB-BT40	BT40	#25	80	M16X2.0P	1.7	3101-009
VB-BT50	BT50	#25	100	M24X3.0P	4.6	3101-010

## Milling Collet Chuck Kit

Including Shank, full set of collets, wrench and case.



### METRIC COLLET SYSTEM

ORDER NO.	TAPER	PCS/SET	WEIGHT KGS	CODE NO.
VB-241	BT40	7	4.4	3101-117
VB-242		15	5.9	3101-118
VB-251	BT50	7	7.5	3101-119
VB-252		15	9.5	3101-120

### CONTENT COLLET SET SIZE

METRIC RANGE SET SIZE
7PCS: 6, 8, 10, 12, 16, 20, 25mm
15PCS: 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 16, 18, 20, 25mm

### INCH COLLET SET SIZE

ORDER NO.	TAPER	PCS/SET	WEIGHT KGS	CODE NO.
VB-231	BT40	7	4.4	3101-121
VB-232		15	5.9	3101-122
VB-233	BT50	7	7.5	3101-123
VB-234		15	9.5	3101-124

### INCH RANGE SET SIZE

7PCS: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 1"
15PCS: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"

# Milling Collet Chuck



COLLET HOLDER WITH BT-SHANK  
OZ-32 MAS 403

DIN 6388 # 32 SERIES



ORDER NO.	TAPER	DIN 6388	L	DRAW BAR	WEIGHT KGS	CODE NO.
VB-226	BT40-OZ-32	#32	90	M16X2.0P	2.3	3102-003
VB-227	BT50-OZ-32	#32	100	M24X3.0P	5.1	3102-004
VB-228			150	M24X3.0P	6.8	3102-005

OZ SYSTEM

## Milling Collet Chuck Kit

Including Shank, full set of collets, wrench and case.

**#32 SERIES BT-TYPE  
MAS 403 BT-SHANK**



### METRIC COLLET SYSTEM SET

ORDER NO.	TAPER	PCS/SET	WEIGHT KGS	CODE NO.
VB-243	BT40	8	7.4	3102-109
VB-244		15	9.4	3102-110
VB-253	BT50	8	10	3102-111
VB-254		15	12	3102-112

### CONTENT COLLET SET SIZE

#### METRIC RANGE SET SIZE

8PCS: 6, 8, 10, 12, 16, 20, 25, 32mm  
15PCS: 6, 8, 9, 10, 12, 13, 14, 15, 16, 18, 20, 22, 25, 26, 30, 32mm

### INCH COLLET SYSTEM SET

ORDER NO.	TAPER	PCS/SET	WEIGHT KGS	CODE NO.
VB-256	BT40	10	7.4	3102-113
VB-257		15	9.4	3102-114
VB-258	BT50	10	10	3102-115
VB-259		15	12	3102-116

#### INCH RANGE SET SIZE

10PCS: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8", 1-1/4"  
15PCS: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4",  
13/16", 7/8", 15/16", 1", 1-1/8", 1-1/4"







# Milling Collet Chuck



COLLET HOLDER WITH  
DIN 69871 & CAT TPE

DIN 6388 # 25, #32 SERIES



## DIN 69871A & CAT SHANK

ORDER NO.	TAPER	DIN 6388	DRAW BAR	WEIGHT KGS	CODE NO.
VB-261	SK40-OZ25-80L	#25	M16X2.0P	1.6	3101-011
VB-262	SK50-OZ25-100L		M24X3.0P	4.2	3101-012
VB-263	CAT40-OZ25-3"L		5/8"-11W	1.9	3101-013
VB-264	CAT50-OZ25-3 1/2"L		1"-8W	4	3101-014
VB-265	SK40-OZ32-80L	#32	M16X2.0P	2.3	3102-011
VB-266	SK50-OZ32-100L		M24X3.0P	5	3102-012
VB-267	CAT40-OZ32-3"L		5/8"-11W	2.3	3102-013



## Milling Collet Chuck Kit

Including Shank, full set of collets, wrench and case.



## METRIC COLLET SYSTEM SET DIN69871A SK-TYPE WITH #25,#32

ORDER NO.	COLLET HOLDER	TYPE	DIN 6388	RANGE	SET PCS	KGS	CODE NO.
VB-271	SK40-OZ25-80L	SK40	#25	3.0-25	15PCS	5.7	3101-125
VB-272	SK40-OZ25-80L		#25	6.0-25	7PCS	4.2	3101-126
VB-273	SK40-OZ32-80L		#32	6.0-32	15PCS	9.2	3101-127
VB-274	SK40-OZ32-80L		#32	6.0-32	8PCS	7.2	3101-128
VB-275	SK50-OZ25-100L	SK50	#25	3.0-25	15PCS	9.3	3101-129
VB-276	SK50-OZ25-100L		#25	6.0-25	7PCS	7.3	3101-130
VB-277	SK50-OZ32-100L		#32	6.0-32	15PCS	11.8	3102-117
VB-278	SK50-OZ32-100L		#32	6.0-32	8PCS	9.8	3102-118



## INCH COLLET SYSTEM SET CAT-TYPE WITH #25,#32

ORDER NO.	COLLET HOLDER	TYPE	DIN 6388	RANGE	SET PCS	KGS	CODE NO.
VB-281	CAT40-OZ25-3"L	CAT40	#25	1/8"-1"	15PCS	5.7	3101-131
VB-282	CAT40-OZ25-3"L		#25	1/4"-1"	7PCS	4.2	3101-132
VB-286	CAT40-OZ32-3"L		#32	1/4"-1 1/4"	15PCS	9.2	3102-119
VB-287	CAT40-OZ32-3"L		#32	1/4"-1 1/4"	10PCS	7.2	3102-120
VB-288	CAT50-OZ25-3 1/2"L	CAT50	#25	1/8"-1"	15PCS	9.3	3101-133
VB-289	CAT50-OZ25-3 1/2"L		#25	1/4"-1"	7PCS	7.3	3101-134
VB-290	CAT50-OZ32-3 1/2"L		#32	1/4"-1 1/4"	15PCS	11.8	3102-121
VB-291	CAT50-OZ32-3 1/2"L		#32	1/4"-1 1/4"	10PCS	10	3102-122



# Multi-Lock Milling Chuck



COLLET HOLDER WITH ISO, BT & SK TAPER SHANK

STRAIGHT COLLET TYPE

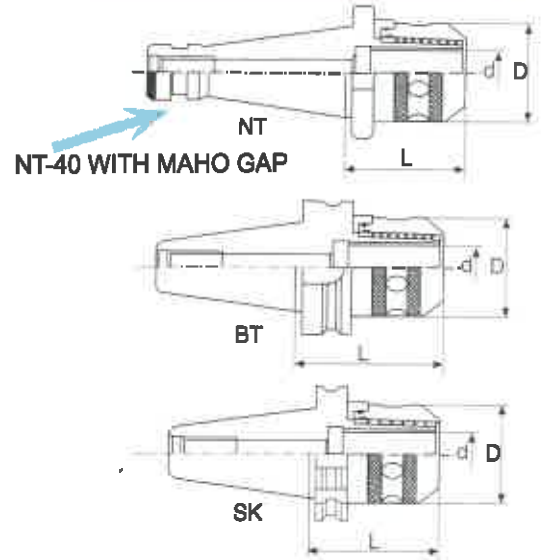
C-32 C-42

DIN 2080, MAS 403 DIN 69871A

C-20,25,32,42 TYPE



C TYPE



ORDER NO.	TAPER	CHUCK	d	D	L	DRAW BAR	KGS	CODE NO.
VB-431	NT40	NT40-MC32-95L	32	75	95	5/8"-11	3	3202-001
VB-432		NT40-MC32-95L	32	75	95	M16x2.0P	3.1	3202-002
VB-433	NT50	NT50-MC32-100L	32	75	100	1"-8	4.8	3202-003
VB-434		NT50-MC32-100L	32	75	100	M24x3.0P	5.1	3202-004
VB-435A	BT40	BT40-MC32-105L	32	75	105	M16x2.0P	3.2	3202-005
VB-435B		BT40-MC32-150L	32	75	150	M16x2.0P	3.5	3202-020
VB-436	BT50	BT50-MC32-110L	32	75	110	M24x3.0P	5.2	3202-006
VB-437		BT50-MC32-150L	32	75	135	M24x3.0P	7	3202-007
VB-438	NT50	NT50-MC42-110L	42	87	110	1"-8	6	3202-008
VB-439		NT50-MC42-110L	42	87	110	M24x3.0P	6.1	3202-009
VB-440	BT50	BT50-MC42-115L	42	87	115	M24x3.0P	6.1	3202-010
VB-441		BT50-MC42-150L	42	87	140	M24x3.0P	7.8	3202-011
VB-442	SK40	SK40-MC32-100L	32	75	100	M16x2.0P	3.1	3202-012
VB-443	SK50	SK50-MC32-105L	32	75	105	M24x3.0P	5.3	3202-013
VB-444A	BT30	BT30-MC20-95	20	52	95	M12x1.75P	1.3	3202-014
VB-446A	BT40	BT40-MC20-80	20	52	80	M16x2.0P	3	3202-016
VB-446B		BT40-MC20-120	20	52	120	M16x2.0P	2.7	3202-017
VB-447A		BT40-MC25-90	25	58	90	M16x2.0P	4.5	3202-018
VB-447B		BT40-MC25-135	25	58	135	M16x2.0P	3.2	3202-019
VB-448A		NT30	NT30-MC20-80	20	52	80	1. M12X1.75P 2. 1/2"-12	1.5
VB-448B	NT30-MC25-85		25	58	85	1. M12X1.75P 2. 1/2"-12	1.5	3202-031
VB-451A	SK40	SK40-MC20-80	20	52	80	M16X2.0P	2	3202-035
VB-451B		SK40-MC25-90	25	58	90	M16X2.0P	2	3202-036
VB-452	SK50	SK50-MC42-110	42	87	110	M24X3.0P	5.7	3202-037

# Multi-Lock Milling Chuck



## MULTI-LOCK MILLING CHUCK KIT

Including shank, full set of collets,  
wrench and case.

**DIN 2080 NT-SHANK**  
**MAS 403 BT-SHANK**  
**DIN 69871A SK-SHANK**



MILLING CHUCK



ORDER NO.	TAPER	CHUCK	COLLET	DRAW BAR	KGS	CODE NO.
VB-444I	NT40	NT40-MC32-95L	7PCS	5/8"-11	7	3202-101
VB-444		NT40-MC32-95L	7PCS	M16x2.0P	7	3202-102
VB-454I	NT50	NT50-MC32-100L	7PCS	1"-8	9	3202-103
VB-454		NT50-MC32-100L	7PCS	M24x3.0P	9	3202-104
VB-344A	BT40	BT40-MC32-105L	7PCS	M16x2.0P	7	3202-105
VB-344B		BT40-MC32-150L	7PCS	M16x2.0P	11.5	3202-118
VB-354A	BT50	BT50-MC32-110L	7PCS	M24x3.0P	9.5	3202-106
VB-354B		BT50-MC32-150L	7PCS	M24x3.0P	13	3202-119
VB-554	NT50	NT50-MC42-110L	8PCS	M24x3.0P	12	3202-107
VB-554I		NT50-MC42-110L	8PCS	1"-8	12	3202-108
VB-564A	BT50	BT50-MC42-115L	8PCS	M24x3.0P	12	3202-109
VB-564B		BT50-MC42-150L	8PCS	M24x3.0P	14	3202-109B
VB-565	SK-40	SK40-MC32-100L	7PCS	M16x2.0P	7	3202-110
VB-566	SK-50	SK50-MC32-105L	7PCS	M24x3.0P	9.5	3202-111
VB-567	BT-30	BT30-MC20-95	6PCS	M12x1.75P	6	3202-112
VB-569A	BT-40	BT40-MC20-80	6PCS	M16x2.0P	7	3202-114
VB-569B		BT40-MC20-120	6PCS	M16x2.0P	8	3202-115
VB-570A		BT40-MC25-90	7PCS	M16x2.0P	9.5	3202-116
VB-570B		BT40-MC25-135	7PCS	M16x2.0P	10.5	3202-117
VB-571	NT30	NT30-MC20-80L	6PCS	1. M12X1.75P 2. 1/2"-12	4	3202-120
VB-572		NT30-MC25-85L	7PCS	1. M12X1.75P 2. 1/2"-12	4	3202-121
VB-574	NT40	NT40-MC25-85L	7PCS	1. M16X2.0P 2. 5/8"-11	4.5	3202-123
VB-576	SK40	SK40-MC20-80L	6PCS	M16X2.0P	4.5	3202-125
VB-577		SK40-MC25-90L	7PCS	M16X2.0P	4.8	3202-126
VB-578	SK50	SK50-MC42-110L	8PCS	M24X3.0P	12	3202-127

# C-20,25,32,42 Collet

C-TYPE COLLET



## 20, 25, 32, 42 STRAIGHT COLLET

METRIC

ORDER NO.	COLLET	COLLETS SIZE d INSIDE DIAMETER	D1 O.D.	D2	L	PCS/SET	CODE NO.
C-20-6P	C-20	4, 6, 8, 10, 12, 16	20	25	52	6	3202-180
C-25-7P	C-25	4, 6, 8, 10, 12, 16, 20	25	31	60	7	3202-181
C-32-7P	C-32	6, 8, 10, 12, 16, 20, 25	32	37	73	7	3202-182
C-42-8P	C-42	6, 8, 10, 12, 16, 20, 25, 32	42	48	80	8	3202-183

## 20, 25, 32, 42 STRAIGHT COLLET

INCH

ORDER NO.	COLLET	COLLETS SIZE d INSIDE DIAMETER	D1 O.D.	D2	L	PCS/SET	CODE NO.
C-20-6I	C-20	1/4", 5/16", 3/8", 1/2", 5/8", 3/4"	20	25	52	6	3202-184
C-25-7I	C-25	1/4", 5/16", 3/8", 1/2", 5/8", 3/16", 3/4"	25	31	60	7	3202-185
C-32-7I	C-32	1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 1"	32	37	73	7	3202-186
C-42-8I	C-42	1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 1", 1 1/4"	42	48	80	8	3202-187

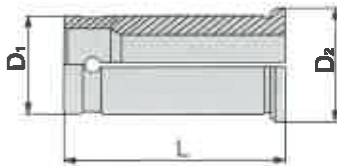


METRIC

ORDER NO.	d	CODE NO.
C-20-4	4	3202-200
C-20-6	6	3202-201
C-20-8	8	3202-202
C-20-10	10	3202-203
C-20-12	12	3202-204
C-20-16	16	3202-205
C-25-4	4	3202-229
C-25-6	6	3202-230
C-25-8	8	3202-231
C-25-10	10	3202-232
C-25-12	12	3202-233
C-25-16	16	3202-234
C-25-20	20	3202-235
C-32-6	6	3202-250
C-32-8	8	3202-251
C-32-10	10	3202-252
C-32-12	12	3202-253
C-32-16	16	3202-254
C-32-20	20	3202-255
C-32-25	25	3202-256
C-42-6	6	3202-280
C-42-8	8	3202-281
C-42-10	10	3202-282
C-42-12	12	3202-283
C-42-16	16	3202-284
C-42-20	20	3202-285
C-42-25	25	3202-286
C-42-32	32	3202-287

INCH

ORDER NO.	d	CODE NO.
C-20-3/16"	3/16"	3202-210
C-20-1/4"	1/4"	3202-211
C-20-5/16"	5/16"	3202-212
C-20-3/8"	3/8"	3202-213
C-20-1/2"	1/2"	3202-214
C-20-5/8"	5/8"	3202-215
C-25-3/16"	3/16"	3202-240
C-25-1/4"	1/4"	3202-241
C-25-5/16"	5/16"	3202-242
C-25-3/8"	3/8"	3202-243
C-25-1/2"	1/2"	3202-244
C-25-5/8"	5/8"	3202-245
C-25-3/4"	3/4"	3202-246
C-32-3/16"	3/16"	3202-260
C-32-1/4"	1/4"	3202-261
C-32-5/16"	5/16"	3202-262
C-32-3/8"	3/8"	3202-263
C-32-1/2"	1/2"	3202-264
C-32-5/8"	5/8"	3202-265
C-32-3/4"	3/4"	3202-266
C-32-7/8"	7/8"	3202-267
C-32-1"	1"	3202-268
C-42-1/4"	1/4"	3202-290
C-42-5/16"	5/16"	3202-291
C-42-3/8"	3/8"	3202-292
C-42-1/2"	1/2"	3202-293
C-42-5/8"	5/8"	3202-294
C-42-3/4"	3/4"	3202-295
C-42-7/8"	7/8"	3202-296
C-42-1"	1"	3202-297
C-42-1 1/4"	1 1/4"	3202-298



ORDER NO.	WEIGHT
C-20	0.1
C-25	0.18
C-32	0.22
C-42	0.35

# C-20,25,32,42 Wrenches



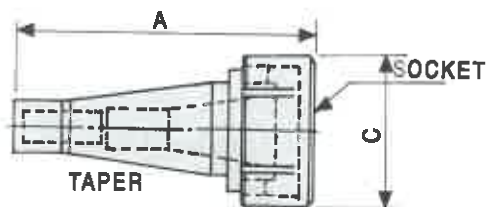
ORDER NO.	L	D	WEIGHT KGS	COLLETS	CODE NO.
C-20W	227	52	0.22	C-20	3202-311
C-25W	227	58	0.22	C-25	3202-312
C-32W	260	75	0.33	C-32	3202-313
C-42W	270	87	0.35	C42	3202-314



# Quick-Change Tooling System VERTEX®

## MILLING-QUICK CHANGE HOLDER

## OZ DIN 6388



- QUICK-CHANGE CHUCK TAPER ACCORDING TO DIN 2080 SPECIFICATION.
- EASY AND FAST CHANGING MILLING CHUCK(HOLDER).
- CHUCK TAPER PRECISELY MACHINED SUITABLE FOR HEAVY CUTTING.
- ALL THE HOLDER SIZE ARE SPECIAL FOR THIS QUICK-CHANGE TOOLING SYSTEM ONLY.

QUICK-CHANGE TOOLING

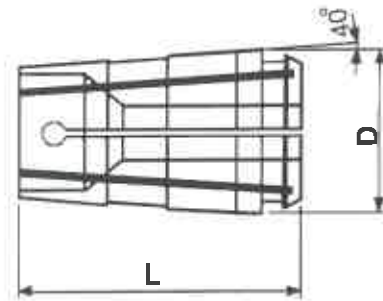
ORDER NO.	TAPER	SOCKET	A	C	WEIGHT KGS	CODE NO.
VD-101	NT30	NT30	144	70	1.3	3201-001
VD-102	NT40	NT30	150	70	2	3201-002
VD-103	NT40	NT40	181	89	2.4	3201-003
VD-105	NT50	NT40	175	89	3.8	3201-004

## MILLING-QUICK CHANGE SYSTEM KIT



ORDER NO.	TAPER	SOCKET	FULL SET	WEIGHT KGS	CODE NO.
VD-111	NT30	NT30	1.MILLING QUICK-CHANGE HOLDER 2.DRILL CHUCK HOLDER 3.MORSE TAPER HOLDER 4.FACE MILL HOLDER 5.DIN6388 #25 COLLET CHUCK HOLDER 6.DIN6388 #25 15PCS COLLET 7.WRENCH 8.WOODEN BOX	10	3201-008
VD-112	NT40	NT30		10.5	3201-007
VD-113	NT40	NT40		14	3201-008
VD-115	NT50	NT40		16	3201-009

● PRECISION TG10 COLLET WITHIN 20 MICRON



■ RANGE SIZE: 1/8" - 63/64"

TG-100 ■ D:35 ■ L:61 ■ TAPER:4 ■ WEIGHT:0.2KGS ■ HRC:47\*

ORDER NO.	INCH	CODE NO.
TG10-01	1/8"	3204-001
TG10-02	3/6"	3204-002
TG10-03	1/4"	3204-003
TG10-04	5/16"	3204-004
TG10-05	3/8"	3204-005
TG10-06	7/16"	3204-006
TG10-07	1/2"	3204-007
TG10-08	9/16"	3204-008
TG10-09	5/8"	3204-009
TG10-10	11/16"	3204-010
TG10-11	3/4"	3204-011
TG10-12	13/16"	3204-012
TG10-13	7/8"	3204-013
TG10-14	15/16"	3204-014
TG10-15	1"	3204-015
TG10-16	5/32"	3204-016
TG10-17	7/32"	3204-017
TG10-18	9/32"	3204-018
TG10-19	11/32"	3204-019
TG10-20	13/32"	3204-020
TG10-21	15/32"	3204-021
TG10-22	17/32"	3204-022
TG10-23	19/32"	3204-023
TG10-24	21/32"	3204-024
TG10-25	23/32"	3204-025
TG10-26	25/32"	3204-026
TG10-27	27/32"	3204-027
TG10-28	29/32"	3204-028
TG10-29	31/32"	3204-029

ORDER NO.	INCH	CODE NO.
TG10-30	9/64"	3204-030
TG10-31	11/64"	3204-031
TG10-32	13/64"	3204-032
TG10-33	15/64"	3204-033
TG10-34	17/64"	3204-034
TG10-35	19/64"	3204-035
TG10-36	21/64"	3204-036
TG10-37	23/64"	3204-037
TG10-38	25/64"	3204-038
TG10-39	27/64"	3204-039
TG10-40	29/64"	3204-040
TG10-41	31/64"	3204-041
TG10-42	33/64"	3204-042
TG10-43	35/64"	3204-043
TG10-44	37/64"	3204-044
TG10-45	39/64"	3204-045
TG10-46	41/64"	3204-046
TG10-47	43/64"	3204-047
TG10-48	45/64"	3204-048
TG10-49	47/64"	3204-049
TG10-50	49/64"	3204-050
TG10-51	51/64"	3204-051
TG10-52	53/64"	3204-052
TG10-53	55/64"	3204-053
TG10-54	57/64"	3204-054
TG10-55	59/64"	3204-055
TG10-56	61/64"	3204-056
TG10-57	63/64"	3204-057

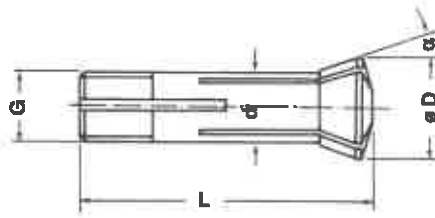
# 5C Collet System



5C RANGE



5C Collet



■ L:87 ■ D:37.5 ■ d:31.75 ■ Accuracy: ±0.02mm  
 ■ α:10° ■ WEIGHT:0.21KGS ■ Hardness: HRC47°

ORDER NO.	Q'TY	RANGE SIZE
5C-□	1 PC	∅ 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25MM
5C-□	1 PC	∅ 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"

ORDER NO.	d	CODE NO.
5C-3	3	3205-001
5C-4	4	3205-002
5C-5	5	3205-003
5C-6	6	3205-004
5C-7	7	3205-005
5C-8	8	3205-006
5C-9	9	3205-007
5C-10	10	3205-008
5C-11	11	3205-009
5C-12	12	3205-010
5C-13	13	3205-011
5C-14	14	3205-012
5C-15	15	3205-013
5C-16	16	3205-014
5C-17	17	3205-015
5C-18	18	3205-016
5C-19	19	3205-017
5C-20	20	3205-018
5C-21	21	3205-019
5C-22	22	3205-020
5C-23	23	3205-021
5C-24	24	3205-022
5C-25	25	3205-023

mm

COMPLETE SET AVAILABLE SIZE

ORDER NO.	Q'TY	RANGE SIZE	PACKING	WEIGHT KGS	CODE NO.
VE-102	7PCS	6, 8, 10, 12, 16, 20, 25	CARTON	1.5	3205-100
VE-102	7PCS	1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 1"	CARTON	1.5	3205-101

ORDER NO.	d	CODE NO.
5C-1/8	1/8"	3205-024
5C-3/16	3/16"	3205-025
5C-1/4	1/4"	3205-026
5C-5/16	5/16"	3205-027
5C-3/8	3/8"	3205-028
5C-7/16	7/16"	3205-029
5C-1/2	1/2"	3205-030
5C-9/16	9/16"	3205-031
5C-5/8	5/8"	3205-032
5C-11/16	11/16"	3205-033
5C-3/4	3/4"	3205-034
5C-13/16	13/16"	3205-035
5C-7/8	7/8"	3205-036
5C-15/16	15/16"	3205-037
5C-1	1"	3205-038

Inch

EMERGENCY TYPE SOFT COLLET

ORDER NO.	MATERIAL	kgs	CODE NO.
VE-5CS	STEEL		3205-201
VE-5CB	BRASS	0.35	3205-202
VE-5CN	NYLON		3205-203

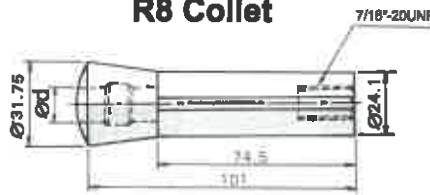


COLLET SYSTEM

# R8 Collet System



R8 Collet



■ L:105 ■ D:31.75 ■ d:24.1 ■ Accuracy: ±0.02mm  
 ■ G:7/16"-20UNF ■ α:8°30' ■ WEIGHT:0.21KGS ■ Hardness: HRC47°

ORDER NO.	Q'TY	RANGE SIZE
R8-□	1 PC	∅ 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 MM
R8-□	1 PC	∅ 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

ORDER NO.	d	CODE NO.
R8-3	3	3206-001
R8-4	4	3206-002
R8-5	5	3206-003
R8-6	6	3206-004
R8-7	7	3206-005
R8-8	8	3206-006
R8-9	9	3206-007
R8-10	10	3206-008
R8-11	11	3206-009
R8-12	12	3206-010
R8-13	13	3206-011
R8-14	14	3206-012
R8-15	15	3206-013
R8-16	16	3206-014
R8-17	17	3206-015
R8-18	18	3206-016
R8-19	19	3206-017
R8-20	20	3206-018

mm

COMPLETE SET AVAILABLE SIZE

ORDER NO.	Q'TY	RANGE SIZE	WEIGHT KGS	CODE NO.
VE-110	6PCS	6, 8, 10, 12, 16, 20 MM	1.5	3206-100
VE-114	7PCS	6, 8, 10, 12, 14, 16, 20 MM	1.5	3206-101

EMERGENCY TYPE SOFT COLLET

ORDER NO.	Q'TY	RANGE SIZE	WEIGHT KGS	CODE NO.
VE-109I	5PCS	1/4", 3/8", 1/2", 5/8", 3/4"	1.1	3206-102
VE-110I	6PCS	1/4", 5/16", 3/8", 1/2", 5/8", 3/4"	1.5	3206-103
VE-114I	7PCS	3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4"	1.5	3206-104

ORDER NO.	d	CODE NO.
R8-1/8	1/8"	3206-019
R8-3/16	3/16"	3206-020
R8-1/4	1/4"	3206-021
R8-5/16	5/16"	3206-022
R8-3/8	3/8"	3206-023
R8-7/16	7/16"	3206-024
R8-1/2	1/2"	3206-025
R8-9/16	9/16"	3206-026
R8-5/8	5/8"	3206-027
R8-11/16	11/16"	3206-028
R8-3/4	3/4"	3206-029

Inch





# U2 Collet System



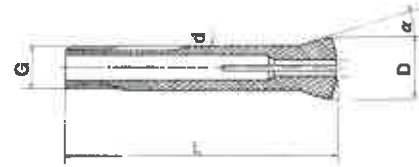
NO.1 U2 COLLET RANGE SIZE 3~16mm

NO.2 U2 COLLET RANGE SIZE 18~25mm

NO.1



NO.2



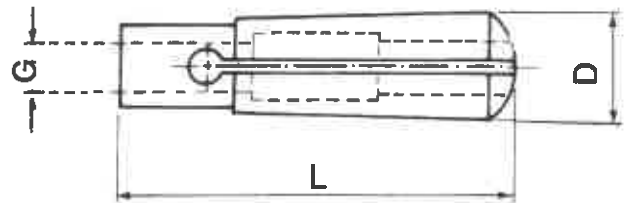
- L:120 ■ D:28 ■ d:20 ■ G:2.0P ■ Accuracy: ±0.02mm
- α:17°30' ■ WEIGHT:0.18KGS ■ Hardness: HRC47°

ORDER NO.	Q'TY	RANGE SIZE
VE-U2-□	1 PC	NO.1 Ø 1.5, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 NO.2 Ø 18, 20, 25MM
VE-U2-□	1 PC	Ø 1/8", 3/16", 1/4", 5/16", 3/8", 1/2", 5/8"

mm			mm			inc		
ORDER NO.	d	CODE NO.	ORDER NO.	d	CODE NO.	ORDER NO.	d	CODE NO.
VE-U2-1.5	1.5	3207-026	VE-U2-10	10	3207-008	VE-U2-1/8	1/8"	3207-018
VE-U2-2	2	3207-027	VE-U2-11	11	3207-009	VE-U2-3/16	3/16"	3207-019
VE-U2-3	3	3207-001	VE-U2-12	12	3207-010	VE-U2-1/4	1/4"	3207-020
VE-U2-4	4	3207-002	VE-U2-13	13	3207-011	VE-U2-5/16	5/16"	3207-021
VE-U2-5	5	3207-003	VE-U2-14	14	3207-012	VE-U2-3/8	3/8"	3207-022
VE-U2-6	6	3207-004	VE-U2-15	15	3207-013	VE-U2-1/2	1/2"	3207-023
VE-U2-7	7	3207-005	VE-U2-16	16	3207-014	VE-U2-5/8	5/8"	3207-024
VE-U2-8	8	3207-006	VE-U2-18	18	3207-015			
VE-U2-9	9	3207-007	VE-U2-20	20	3207-016			
			VE-U2-25	25	3207-017			



# MT3 Collet System

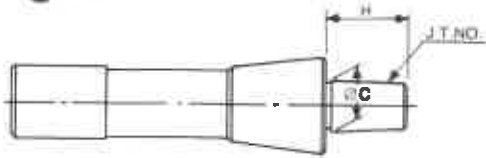


- D:24.1 ■ L:87 ■ WEIGHT:0.18KGS
- DRAW BAR SIZE: G1.M12X1.75P  
G3.1/2"-12  
G4.3/8"-16

ORDER NO.	Q'TY	RANGE SIZE	DRAW BAR SIZE
MT3-□	1 PC	Ø 4, 6, 8, 10, 12, 16, 20MM	G1,G2
MT3-□	1 PC	Ø 1/8", 1/4", 3/8", 1/2", 5/8", 3/4"	G3,G4

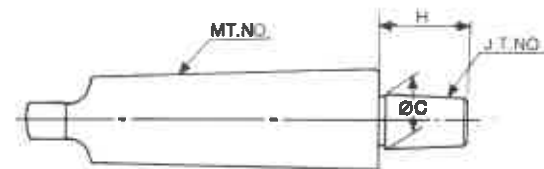
mm			inc		
ORDER NO.	d	CODE NO.	ORDER NO.	d	CODE NO.
MT3-4	4	3208-100	MT3-1/8	1/8"	3208-107
MT3-6	6	3208-101	MT3-1/4	1/4"	3208-108
MT3-8	8	3208-102	MT3-3/8	3/8"	3208-109
MT3-10	10	3208-103	MT3-1/2	1/2"	3208-110
MT3-12	12	3208-104	MT3-5/8	5/8"	3208-111
MT3-16	16	3208-105	MT3-3/4	3/4"	3208-112
MT3-20	20	3208-106			

R8



ORDER NO.	TAPER	JT NO.	C	H	WEIGHT (kg)	CODE NO.
VJ-120	R8	JT3	20.60	34	0.5	3209-000
VJ-121		JT1	9.754	18	0.5	3209-001
VJ-122		JT2	13.94	20	0.5	3209-002
VJ-123		JT6	17.17	26	0.5	3209-003
VJ-124		B16	15.733	24	0.5	3209-004

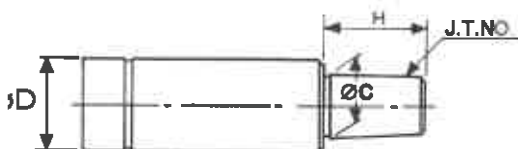
MT3.4.5



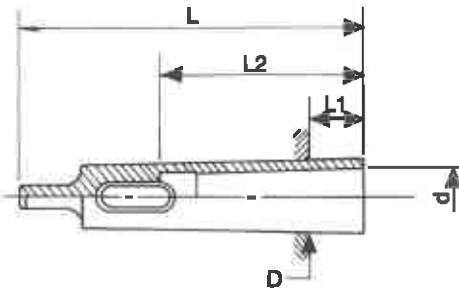
ORDER NO.	TAPER	JT NO.	C	H	WEIGHT (kg)	CODE NO.
VJ-126	MT2	JT3	20.6	34	0.24	3209-006
VJ-126-1		B16	15.733	29	0.2	3209-006A
VJ-126-3		B18	17.78	37	0.21	3209-006B
VJ-130		JT6	17.17	28	0.22	3209-029
VJ-130-2	MT3	JT5	35.89	50	0.5	3209-029A
VJ-130-4		JT4	28.55	45	0.4	3209-029B
VJ-137		JT2	14.2	25	0.2	3209-056
VJ-131		JT6	17.17	26	0.4	3209-030
VJ-131-2	MT4	JT5	35.89	50	0.7	3209-030A
VJ-131-4		JT33	15.85	28	0.3	3209-030B
VJ-134		B16	15.733	24	0.3	3209-033
VJ-134-2		B18	17.78	37	0.4	3209-033A
VJ-138-1	MT5	JT3	20.60	34	0.35	3209-034
VJ-138-2		JT4	28.55	45	0.5	3209-035
VJ-132		JT6	17.17	26	0.7	3209-031
VJ-132-1		JT3	20.60	34	0.7	3209-031A
VJ-132-7	MT3	JT4	28.55	45	0.85	3209-031B
VJ-132-4		JT5	35.89	50	1	3209-031C
VJ-132-5		JT2	14.2	25	0.64	3209-031D
VJ-132-6		JT33	15.85	28	0.65	3209-031E
VJ-132-8	MT4	B18	17.78	37	0.7	3209-031F
VJ-135		B16	15.733	29	0.7	3209-036
VJ-133		JT6	17.17	26	1.6	3209-032
VJ-133-1		JT3	20.60	35	1.6	3209-032A
VJ-133-2	MT5	JT4	28.55	46	1.8	3209-032B
VJ-133-3		JT5	35.89	51	2	3209-032C
VJ-133-4		JT2	14.2	26	1.6	3209-032D
VJ-133-5		JT33	15.85	29	1.6	3209-032E

COLLET SYSTEM

C20.25.32



ORDER NO.	SHANK ØD	JT NO.	C	H	WEIGHT (kg)	CODE NO.
VJ-139	C20	JT1	9.754	19	0.2	3209-058
VJ-139-1		JT0	6.35	9	0.2	3209-058A
VJ-140		JT2	14.20	25	0.2	3209-059
VJ-140-1		JT3	20.60	35	0.2	3209-059A
VJ-140-2		B10	10.25	21	0.15	3209-059B
VJ-141		JT6	17.17	26	0.2	3209-060
VJ-140-3		B12	12.1	22.5	0.2	3209-060A
VJ-140-4		B16	15.733	29	0.2	3209-060B
VJ-142	C25	JT6	17.17	26	0.3	3209-061
VJ-143	C32	JT6	17.17	26	0.5	3209-062

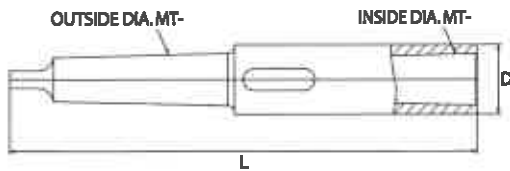


ORDER NO.	I.D.xO.D.	D	d	L	l1	l2	WEIGHT (kg)	CODE NO.
VQ-101	MT2xMT3	23.825	17.780	112	18	67	0.2	3210-001
VQ-102	MT2xMT4	31.267	17.780	124	6.5	67	0.5	3210-002
VQ-103	MT2xMT5	44.399	17.780	156	6.5	67	1.4	3210-003
VQ-104	MT2xMT6						4.13	3210-004
VQ-105	MT3xMT4	31.267	23.825	140	22.5	84	0.4	3210-005
VQ-106	MT3xMT5	44.399	23.825	156	6.5	84	1.3	3210-006
VQ-107	MT3xMT6	63.348	23.825	218	8	84	4	3210-007
VQ-108	MT4xMT5	44.399	31.267	171	21.5	107	1	3210-008
VQ-109	MT4xMT6	63.348	31.267	218	8	107	3.7	3210-009
VQ-110	MT5xMT6	63.348	44.399	218	8	133	2.9	3210-010
VQ-100	MT1xMT3	23.825	12.065	100	6	55	0.2	3210-011
VQ-100-1	MT1xMT2	17.780	12.065	89	14	55	0.22	3210-012
VQ-100-2	MT1xMT4	31.267	12.065	124	6.5	55	0.89	3210-013
VQ-100-3	MT1xMT5	44.399	12.065	156	7	55	1.33	3210-014

## Morse Taper Extension Sockets

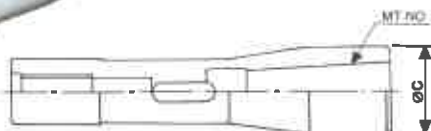
### MORSE TAPER EXTENSION SOCKETS

- For adapting tools with morse taper shanks to machine having smaller morse taper spindle or for adapting tools with morse taper shanks to machine having the same or larger morse taper spindle.
- Hardened and ground throughout.



ORDER NO.	I.D.xO.D.	D	L	WEIGHT (kg)	CODE NO.
VQ-111-3	MT1xMT2	18.2	160	0.28	3210-018
VQ-111-1	MT1xMT3	20.2	175	0.4	3210-019
VQ-111-2	MT1xMT4	20.2	204	0.35	3210-020
VQ-112	MT2xMT2	24.2	175	0.35	3210-021
VQ-112-1	MT2xMT3	24.2	194	0.5	3210-022
VQ-112-2	MT2xMT4	24.2	219	0.9	3210-022A
VQ-112-3	MT2xMT5	24.2	254	1.85	3210-022B
VQ-113	MT3xMT2	32.2	196	0.56	3210-023
VQ-114	MT3xMT3	32.2	215	0.7	3210-024
VQ-115	MT3xMT4	32.2	240	1.1	3210-025
VQ-115-1	MT3xMT5	32.2	275	2.1	3210-025A
VQ-115-2	MT4xMT2	45.2	221	1.25	3210-026A
VQ-116	MT4xMT3	45.2	240	1.4	3210-026
VQ-117	MT4xMT4	45.2	265	1.7	3210-027
VQ-118	MT4xMT5	45.2	300	2.7	3210-028
VQ-119-1	MT5xMT3	63.2	275	3	3210-029A
VQ-119	MT5xMT4	63.2	300	3.25	3210-029
VQ-120	MT5xMT5	63.2	335	4.2	3210-030

## R8 With Morse Taper Sleeve



ORDER NO.	SHANK	SIZE	MT NO.	WEIGHT (kg)	CODE NO.
VQ-121	R8	R8-MT1	MT1	0.36	3211-003
VQ-122	R8	R8-MT2	MT2	0.4	3211-001
VQ-123	R8	R8-MT3	MT3	0.5	3211-002

# Face Mill Arbor

NT30, 40, 50, R8, MT3, 4

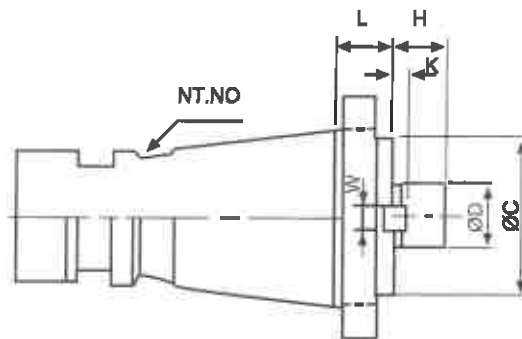
DIN 2080/ISO SHANK



NT40 WITH MAHO GAP



NT30



**MATERIAL:SCM-21 HARDNESS:HRC 50°-55°**

Squareness of mounting surface:Less than 0.0002"(0.005mm)

Deflection in shaft and taper:Less than 0.0002"(0.005mm)



## INCH FMA TYPE

ORDER NO.	TAPER	SHAFT SIZE				MOUNTING SIZE		WEIGHT (kg)	CODE NO.
		D	H	W	K	C	L		
VF-101	NT30	25.4	20	9.57	5	65	20	0.7	3212-001
VF-102		31.75	23	12.75	7	73	20	1	3212-002
VF-103		38.1	22	15.90	9	82	20	1.1	3212-003
VF-104	NT40	25.4	20	9.57	5	65	20	1.2	3212-004
VF-105		31.75	22	12.75	7	73	20	1.5	3212-005
VF-106		38.1	23	15.90	9	82	20	1.8	3212-006
VF-109	NT50	25.4	20	9.57	5	65	20	3.2	3212-009
VF-110		31.75	22	12.75	7	73	20	3.3	3212-010
VF-111		38.1	23	15.90	9	82	20	3.6	3212-011
VF-112		50.8	24	19.05	10	95	20	4	3212-012
VF-114	R8	25.4	20	9.57	5	40	20	0.9	3212-014
VF-115		31.75	22	12.75	7	53	20	1.2	3212-015
VF-116	MT-3	25.4	20	9.57	5	40	20	0.7	3212-016
VF-117	MT-4	25.4	20	9.57	5	40	20	1	3212-017

## METRIC FMB TYPE

ORDER NO.	TAPER	SHAFT SIZE				MOUNTING SIZE		WEIGHT (kg)	CODE NO.
		D	H	W	K	C	L		
VF-120	NT30	22	18	9.57	5	40	20	0.7	3212-100
VF-121		27	20	12.75	7	53	20	0.8	3212-101
VF-122		32	23	15.90	7	63	20	1.1	3212-102
VF-123	NT40	22	18	9.57	5	40	20	1.2	3212-103
VF-123-1		16	17	16.4		40	20	1.17	3212-103A
VF-124		27	20	12.75	7	53	20	1.3	3212-104
VF-125		32	23	15.90	7	63	20	1.4	3212-105
VF-126		40	26	19.05	8	85	20	1.9	3212-106
VF-127		60	32	25.40	5	128	24	4	3212-107
VF-128	NT50	22	18	9.57	5	40	20	3.1	3212-108
VF-129		27	20	12.75	7	53	20	3.3	3212-109
VF-130		32	23	15.90	7	63	20	3.5	3212-110
VF-131		40	26	19.05	8	85	20	3.7	3212-111
VF-132		60	32	25.40	5	128.57	24	5.4	3212-112
VF-134	R8	22	18	9.57	5	40	20	0.9	3212-113
VF-135		27	20	12.75	7	53	20	1	3212-114
VF-136	MT-3	27	20	9.57	7	53	20	0.7	3212-115
VF-137	MT4	27	20	9.57	7	53	20	1.1	3212-116

FACE MILL ARBOR



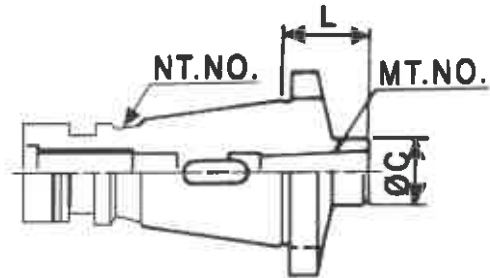
# Morse Taper Adapter

NT-30, 40, 50, R8, MT3, 4



DIN 2080/ISO SHANK

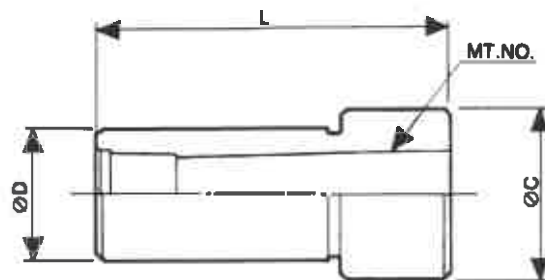
**MORSE TAPER ADAPTER  
WITH STRAIGHT SHANK**



## STANDARD TYPE

ORDER NO.	TAPER	TYPE	C	L	WEIGHT (kgs)	CODE NO.
VI-102	NT30	MT2	32	50	0.6	3211-031
VI-103		MT3	35	65	0.7	3211-032
VI-104	NT40	MT1	25	30	0.9	3211-033
VI-105		MT2	32	30	1	3211-034
VI-106		MT3	40	70	1.2	3211-035
VI-107	NT50	MT4	50	90	1.5	3211-036
VI-108		MT2	32	30	2.8	3211-037
VI-109		MT3	40	30	2.7	3211-038
VI-110		MT4	50	45	3.2	3211-039
VI-111		MT5	65	105	3.7	3211-040

PLEASE NOTIFY THE DRAW BAR THREAD SIZE IS MM SIZE OR INCH SIZE WHEN ORDERING.



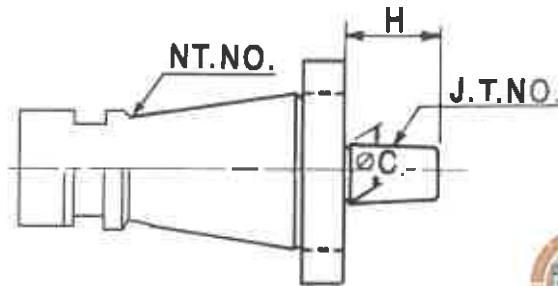
## STANDARD TYPE

ORDER NO.	TAPER	SIZE	D	MT NO	C	L	WEIGHT (kg)	CODE NO.
VI-131	C20	C20-MT1	20	MT1	27	60	0.2	3211-060
VI-132		C20-MT2	20	MT2	27	70	0.2	3211-061
VI-133	C25	C25-MT1	25	MT1	33	60	0.3	3211-062
VI-134		C25-MT2	25	MT2	33	70	0.2	3211-063
VI-135		C25-MT3	25	MT3	33	90	0.2	3211-064
VI-136	C32	C32-MT1	32	MT1	37	60	0.36	3211-065
VI-137		C32-MT2	32	MT2	37	70	0.37	3211-066
VI-138		C32-MT3	32	MT3	37	90	0.35	3211-067
VI-138-4		C32-MT4	32	MT4	37	112	0.3	3211-068

# Jacobs Taper Drill Chuck Arbor

NT30, 40, 50-JT & B

DIN 2080/ISO SHANK

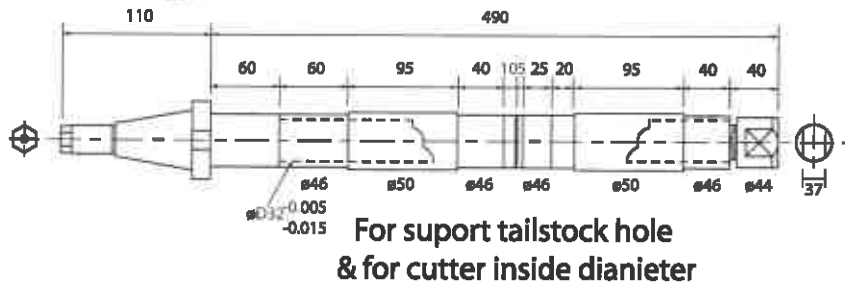


ORDER NO.	TAPER	JT NO	C	H	WEIGHT (kgs)	CODE NO.
VJ-106	NT40	JT6	17.17	26	1	3209-095
VJ-109	NT50	JT6	17.17	26	3.2	3209-098
VJ-111	NT30	B16	15.733	24	0.5	3209-099
VJ-112	NT40	B16	15.733	24	1	3209-100

EASE NOTIFY THE DRAW BAR THREAD SIZE IS MM SIZE OR INCH SIZE WHEN ORDERING.

## Horizontal Milling Arbor

With Key Way Wide 5/16"



ORDER NO.	TAPER	$\varnothing D$	$\varnothing C$	G	L	L1	WEIGHT (kg)	CODE NO.
VL-110	NT40 M16x2.0P	32	46	M30 x P2	600	490	7.5	3209-130

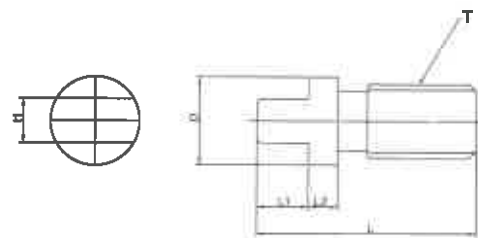
## Tang For Morse Taper Shank

SURFACE TREATMENT: BLACKENING

HRC 45°



Tang for draw bar thread type to tang type



ORDER NO.	Morse	D	L	L1	L2	T	t1	WEIGHT	CODE NO.
VMTS-2	2	12	30	7	4	M10X1.5	6	0.02	3209-201
VMTS-3	3	17	40	12	4	M12X1.75	7.5	0.04	3209-202
VMTS-4	4	24	46	13	5	M16X2	11.5	0.09	3209-203
VMTS-5	5	34	47	14	5	M24X3	15.5	0.18	3028-204



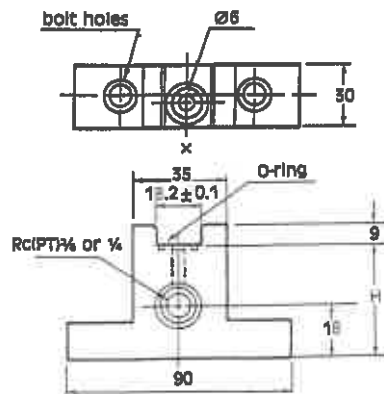
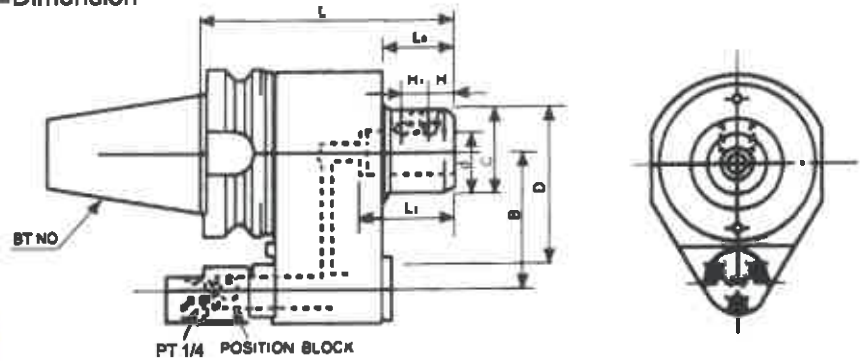
# Oil-Feed Holder / Slo



Coolant hole holder for straight shank

BT40, BT50

■ Dimension



(Note) H & X dimensions differ depending on machines employed.

## POSITIONING BLOCK

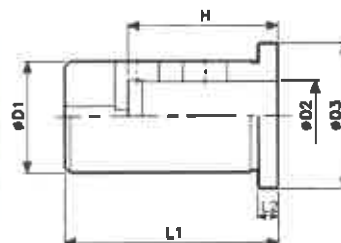
In using, OIL-FEED holder, positioning block illustrated here is necessary.

The positioning block can be mounted to the spindle guide but it shall be mounted so as not to interfere with ATC arm, etc. of machine. It is necessary to consult the machine manufacturer about the proper mounting.

Unit: mm

ORDER NO.	d	L	B	C	D	L0	L1	H	H1	WEIGHT(kgs)	CODE NO.
BT40SLO32-165	32	165	65	53	90	52	60	15	15	4KGS	3214-001
BT40SLO40-165	40	165	65	70	90	52	70	19	18	4.6KGS	3214-002
BT50SLO32-150	32	150	80	54	100	42	60	15	15	7.1KGS	3214-003
BT50SLO40-150	40	150	80	64	100	52	70	19	18	7.8KGS	3214-004

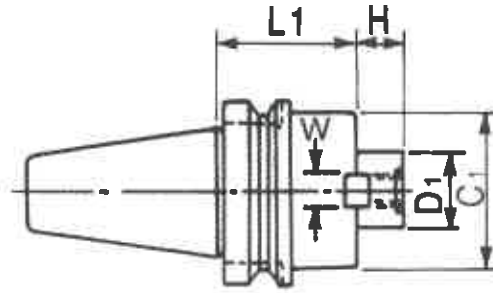
Reducing sleeve for oil feed holder.



ORDER NO.	D1	D2	D3	L1	L2	H	WEIGHT(kg)	CODE NO.
OC32-20	32	20	42	63	6	48	0.4	3214-103
OC32-25		25				54	0.3	3214-104
OC40-25	40	25	50	63	6	54	0.6	3214-105
OC40-32		32				58	0.5	3214-106

BT30,40,50

BT-SHANK MAS 403



### INCH FMA TYPE

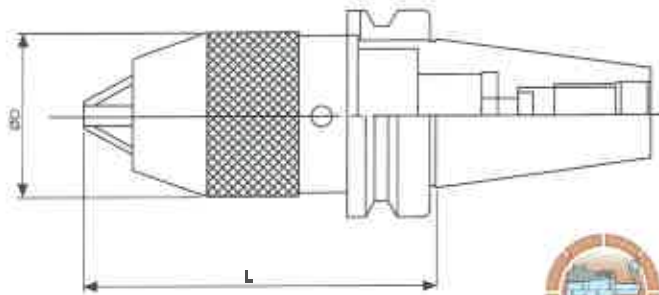
ORDER NO.	TAPER	D1	L1	H	C1	W	C4	N.W. (KG)	CODE NO.
BT-101	BT30	25.4	45	22	45	9.5	33	1.0	3212-201
BT-103	BT40	25.4	45	22	50	9.5	33	1.6	3212-203
BT-105		25.4	90	22	50	9.5	33	1.6	3212-205
BT-106		31.75	45	30	60	12.7	40	1.8	3212-206
BT-108		31.75	90	30	60	12.7	40	2.8	3212-208
BT-109		38.1	60	34	74	15.9	50	2.5	3212-209
BT-111		BT50	25.4	45	22	60	9.5	33	4.2
BT-112	25.4		105	22	50	9.5	33	4.9	3212-212
BT-113	25.4		150	22	50	9.5	33	6.2	3212-213
BT-114	31.75		45	30	70	12.7	40	4.0	3212-214
BT-115	31.75		75	30	60	12.7	40	4.8	3212-215
BT-116	31.75		105	30	60	12.7	40	5.6	3212-216
BT-117	38.1		45	34	85	15.9	50	4.6	3212-217
BT-118	38.1		75	34	85	15.9	50	5.6	3212-218
BT-119	50.8		45	36	95	19.05	65	4.8	3212-219
BT-121	47.625		75	38	128.57	25.4	-	7.9	3212-221

### METRIC FMB TYPE

ORDER NO.	TAPER	D1	L1	H	C1	W	C4	N.W. (KG)	CODE NO.
BT-150	BT30	22	45	18	48	10	33	2.0	3212-267
BT-151		27	45	20	60	12	33	2.2	3212-268
BT-152	BT40	22	45	18	48	10	50	1.5	3212-269
BT-153		22	90	18	48	10	33	2.2	3212-270
BT-154		27	45	20	60	12	33	1.7	3212-271
BT-155		27	90	20	60	12	33	2.7	3212-272
BT-156		32	45	22	62	14	50	1.8	3212-273
BT-157		40	60	26	85	16	50	2.7	3212-274
BT-158	BT50	22	45	18	60	10	33	4.2	3212-275
BT-159		22	75	18	60	10	33	4.6	3212-276
BT-160		27	45	20	70	12	33	4.3	3212-277
BT-161		27	75	20	60	12	33	4.0	3212-278
BT-162		27	105	20	60	12	33	5.7	3212-279
BT-163		32	75	22	75	14	50	5.5	3212-280
BT-164		32	105	22	80	14	33	6.5	3212-281
BT-165		32	150	22	80	14	33	8.7	3212-282
BT-166		40	75	26	85	16	50	6	3212-283

FACE MILL ARBOE





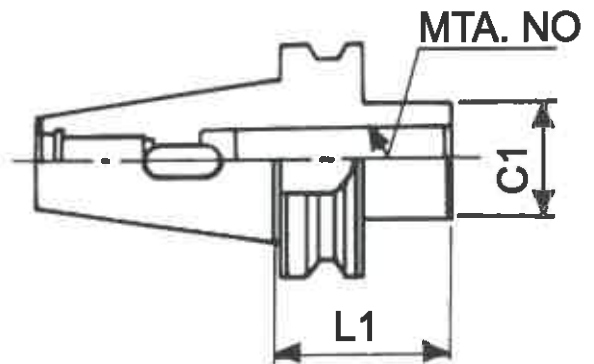
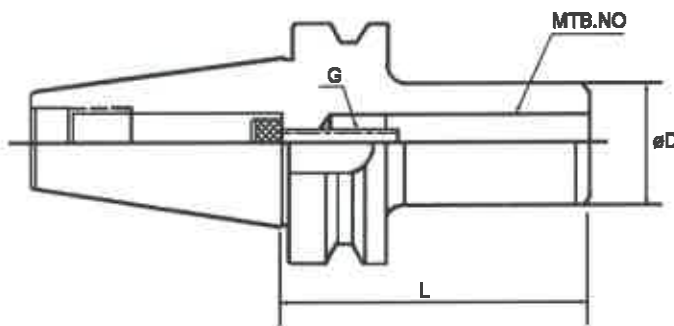
ORDER NO.	TAPER	ØD	KGS	CODE NO.
BT-180	BT30-APU08	37	1	3212-301
BT-181	BT30-APU13	50	1.4	3212-302
BT-182	BT40-APU08	37	1.5	3212-303
BT-183	BT40-APU13	50	2	3212-304
BT-184	BT40-APU16	58	2.5	3212-305
BT-186	BT50-APU13	50	4.7	3212-307
BT-188	BT50-APU16	58	4.8	3212-309



## Morse Taper Adaptor

BT30,40,50-MTA,MTB

MAS 403 BT-SHANI

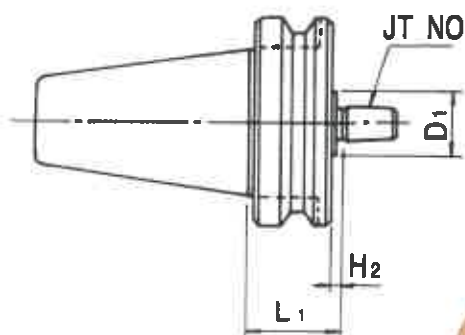


### MTA TYPE (STANDARD TYPE)

ORDER NO.	TAPER	MT.NO.	L1	C1	WEIGHT(KG)	CODE NO.
BT-204	BT30	MT-2	60	32	0.6	3211-091
BT-207		MT-3	80	40	1.2	3211-092
BT-209		MT-1	50	25	1.1	3211-094
BT-212	BT40	MT-2	50	32	1.1	3211-095
BT-215		MT-3	75	40	1.3	3211-096
BT-218		MT-4	95	50	1.5	3211-097
BT-220	BT50	MT-1	45	25	3.5	3211-098
BT-223		MT-2	50	32	3.5	3211-099
BT-226		MT-3	65	40	3.6	3211-100
BT-229		MT-4	75	50	3.6	3211-101
BT-231		MT-5	105	65	4.2	3211-102

### MTB TYPE (STANDARD TYPE)

ORDER NO.	SIZE	MTB.NO.	L	ØD	G	WEIGHT(KG)	CODE NO.
BT-236	BT40-MTB1-45	MTB1	45	25	M16	1	3211-105
BT-237	BT40-MTB2-45	MTB2	45	32	M10	1	3211-106
BT-238	BT40-MTB3-45	MTB3	75	40	M12	1.2	3211-107
BT-239	BT40-MTB4-45	MTB4	75	48	M16	1.3	3211-108



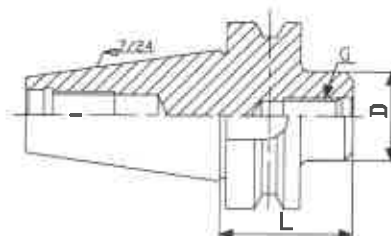
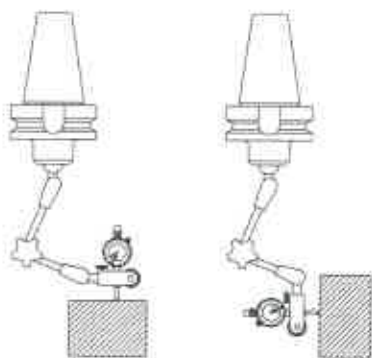
ORDER NO.	TAPER	JT.NO.	L1	D1	H2	WEIGHT (KG)	CODE NO.
BT-315	BT40	JT-6	45	30	4	1.2	3209-147
BT-316		JT-6	90	30	4	1.4	3209-148
BT-325	BT50	JT-6	45	30	4	4.2	3209-151
BT-332	BT40	B16*	45	30	4	1.45	3209-155
BT-332-1		B18*	45				3209-155A
BT-333	BT50	B16*	45	30	4	5.1	3209-156
BT-333-1		B18*	45				3209-156A

JACOBS TAPER ARBOR

## Lever Checking Holders



M8 THREAD FOR CHECKING ARM



ORDER NO.	L	ØD	G	kgs	CODE NO.
BT40-M8	47	30	M8	1.3	3029-160
BT50-M8	58	30	M8		3029-161

## Test Arbor



ORDER NO.	TAPER	G CAN FOR PULL STUD	A	L	KGS	CODE NO.
A50	BT-50	M24xP3.0	40	250	5.3	3405-412
A40	BT-40	M16xP2.0	40		3.9	3405-413
A30	BT-30	M12xP1.75	30		2.4	3405-414



# Sidelock End Mill Holder

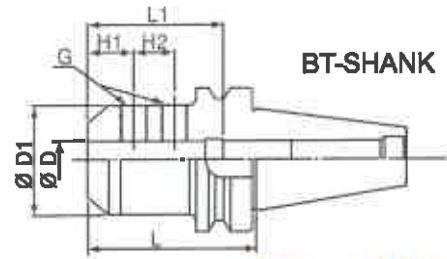
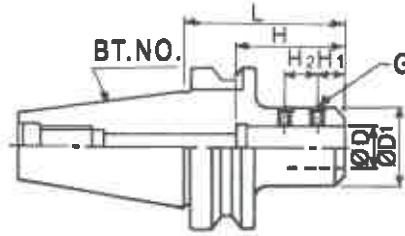
BT 30, 40, 50-SLA



MAS 403



WELDON TYPE

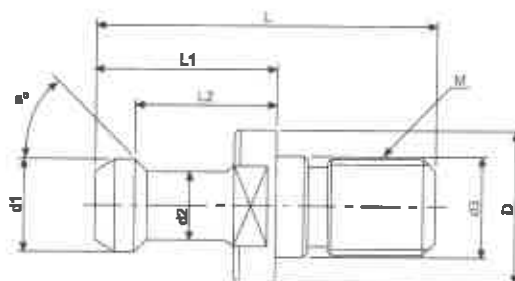


BT-SHANK



Unit:mm

ORDER NO.	SIZE	ØD	ØD1	L	L1	H1	H2	G	WEIGHT (kgs)	CODE NO.
BT-436	BT30-SLA8-60	6	25	60	30	12	10	M6x1.0	0.7	3213-126
BT-437	BT30-SLA8-60	8	28	60	35	14	12	M8x1.25	0.7	3213-127
BT-438	BT30-SLA10-60	10	35	60	40	15	14	M8x1.25	0.7	3213-128
BT-439	BT30-SLA12-60	12	42	60	50	20	16	M12x1.5	0.8	3213-129
BT-440	BT30-SLA16-75	16	48	75	60	20	18	M12x1.5	0.9	3213-130
BT-441	BT30-SLA20-75	20	52	75	70	23	19	M12x1.5	1.2	3213-131
BT-442	BT40-SLA8-75	6	25	75	30	12	10	M6x1.0	1.2	3213-132
BT-443	BT40-SLA8-75	8	28	75	35	14	12	M8x1.25	1.3	3213-133
BT-444	BT40-SLA10-75	10	35	75	40	15	14	M8x1.25	1.4	3213-134
BT-445	BT40-SLA12-75	12	42	75	50	20	16	M12x1.5	1.5	3213-135
BT-446	BT40-SLA14-75	14	44	75	50	20	16	M12x1.5	1.5	3213-136
BT-447	BT40-SLA16-75	16	48	75	60	20	18	M12x1.5	1.6	3213-137
BT-448	BT40-SLA18-75	18	50	75	60	20	18	M12x1.5	1.6	3213-138
BT-449	BT40-SLA20-90	20	52	90	70	23	19	M12x1.5	1.9	3213-139
BT-450	BT40-SLA25-90	25	62	90	80	24	25	M18x1.5	2.2	3213-140
BT-451	BT40-SLA32-90	32	63	90	80	24	28	M20x1.5	2	3213-141
BT-452	BT40-SLA40-105	40	79	105	80	24	28	M20x1.5	3.2	3213-142
BT-453	BT40-SLA42-105	42	79	105	80	24	28	M20x1.5	3.1	3213-143
BT-454	BT50-SLA8-90	6	25	90	30	12	10	M6x1.0	3.9	3213-144
BT-455	BT50-SLA6-150	6	25	150	30	12	10	M6x1.0	4	3213-145
BT-456	BT50-SLA8-90	8	28	90	35	14	12	M8x1.25	3.7	3213-146
BT-457	BT50-SLA8-150	8	28	150	35	14	12	M8x1.25	4.2	3213-147
BT-458	BT50-SLA10-90	10	35	90	40	15	14	M8x1.25	4.2	3213-148
BT-459	BT50-SLA10-150	10	35	150	40	15	14	M8x1.25	4.3	3213-149
BT-460	BT50-SLA12-90	12	42	90	50	20	16	M12x1.5	4.2	3213-150
BT-461	BT50-SLA12-150	12	42	150	50	20	16	M12x1.5	4.9	3213-151
BT-462	BT50-SLA14-90	14	44	90	55	20	16	M12x1.5	4.2	3213-152
BT-463	BT50-SLA16-90	16	48	90	60	20	18	M12x1.5	4.3	3213-153
BT-464	BT50-SLA16-150	16	48	150	60	20	18	M12x1.5	5	3213-154
BT-465	BT50-SLA18-90	18	50	90	60	20	18	M12x1.5	4.3	3213-155
BT-466	BT50-SLA20-105	20	52	105	70	23	19	M12x1.5P	4.5	3213-156
BT-466-1	BT50-SLA20-90	20	50	90	60	20	18	M12x1.5P	4.4	3213-156A
BT-467	BT50-SLA20-150	20	52	150	70	23	19	M12x1.5	4.5	3213-157
BT-468	BT50-SLA20-200	20	52	200	70	23	19	M12x1.5	6.4	3213-158
BT-470	BT50-SLA25-105	25	65	105	80	24	25	M18x1.5	5	3213-160
BT-471	BT50-SLA25-150	25	65	150	80	24	25	M18x1.5P	6.3	3213-161
BT-472	BT50-SLA25-200	25	65	200	80	24	25	M18x1.5P	7.6	3213-162
BT-474	BT50-SLA32-105	32	72	105	80	24	28	M20x1.5	5.3	3213-164
BT-477	BT50-SLA32-250	32	72	250	80	24	28	M20x1.5	9.8	3213-167
BT-478	BT50-SLA40-120	40	90	120	90	30	32	M20x1.5	6.5	3213-168
BT-479	BT50-SLA42-120	42	90	120	90	30	32	M20x1.5	6.7	3213-169



THREAD GROUND

- MATERIAL: SNCM 21
- HARDNESS: HRC 54°±2°
- SHANK BT-30(P 30T)
- SHANK BT-40(P 40T)
- SHANK BT-50(P 50T)

PULL STUDS

Unit:mm

ORDER NO.	TAPER NO.	a°	L	L1	L2	D	d1	d2	d3	M	NOTE	CODE NO.
BT-510	BT30X90°	90	43	23	18	16.5	11	7	12.5	M12	P30T-3(90°)	3215-007
BT-501	BT30X45°	45	43	23	18	16.5	11	7	12.5	M12	P30T-1(45°)	3215-008
BT-502	BT30X60°	60	43	23	18	16.5	11	7	12.5	M12	P30T-2(60°)	3215-009
BT-511	BT40X90°	90	60	35	28	23	15	10	17	M16	P40T-3(90°)	3215-010
BT-503	BT40X45°	45	60	35	28	23	15	10	17	M16	P40T-1(45°)	3215-011
BT-504	BT40X60°	60	60	35	28	23	15	10	17	M16	P40T-2(60°)	3215-012
BT-512	BT50X90°	90	85	45	35	38	23	17	25	M24	P50T-3(90°)	3215-013
BT-505	BT50X45°	45	85	45	35	38	23	17	25	M24	P50T-1(45°)	3215-014
BT-506	BT50X60°	60	85	45	35	38	23	17	25	M24	P50T-2(60°)	3215-015

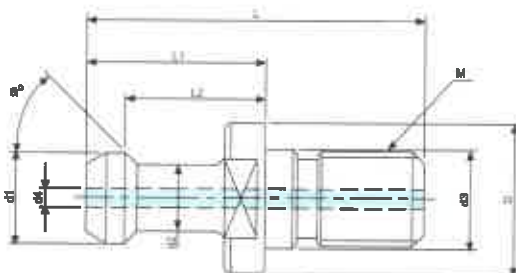
# Pull Studs

MAS 403  
BT-40,50

JIS B6339-1986

• With through hole for internal coolant

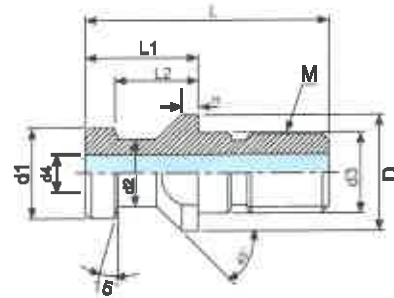
FOR MAS 403



Unit:mm

ORDER NO.	TAPER NO.	a°	L	L1	L2	D	d1	d2	d3	d4	M	CODE NO.
BT-516	BT40X45°W	45	60	35	28	23	15	10	17	4	M16	3215-060
BT-517	BT40X60°W	60	60	35	28	23	15	10	17	4	M16	3215-061
BT-518	BT40X90°W	90	60	35	28	23	15	10	17	4	M16	3215-062
BT-519	BT50X45°W	45	85	45	35	38	23	17	25	7	M24	3215-063
BT-520	BT50X60°W	60	85	45	35	38	23	17	25	7	M24	3215-064
BT-521	BT50X90°W	90	85	45	35	38	23	17	25	7	M24	3215-065

FOR DIN 69872-1988



With Collant Hole

### DIN 69872, (WITH THROUGH HOLE)-A TYPE

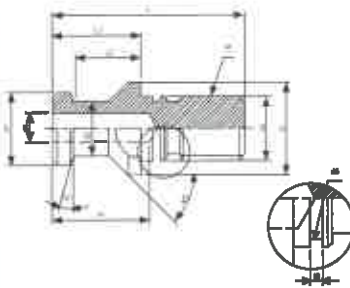
Unit:mm

ORDER NO.	TAPER NO.	L	L1	L2	D	d1	d2	d3	d4	M	H	CODE NO.
BT-522	DIN30-A	44	24	19	17	13	9	13	3	M12		3215-066
BT-523	DIN40-A	54	26	20	23	19	14	17	7	M16	4	3215-067
BT-524	DIN40-A-L	54	29	23	23	19	14	17	7	M16		3215-068
BT-525	DIN50-A	74	34	25	36	28	21	25	11.5	M14		3215-069

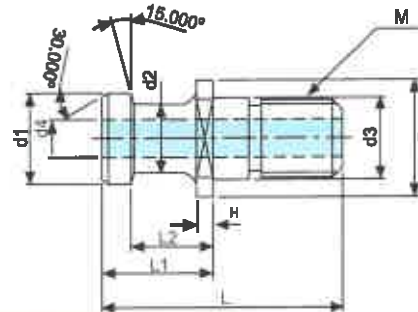
### WITHOUT O-RING DIN69872-B TYPE

Unit:mm

ORDER NO.	TAPER NO.	L	L1	L2	I3	I4	D	d1	d2	d3	d4	M	CODE NO.
BT-526	DIN30-B	44	24	19	1.4		17	13	9	13		M12	3215-070
BT-527	DIN40-B	54	26	20	1.9	27	23	19	14	17	7	M16	3215-071
BT-528	DIN50-B	74	34	25	3	37	36	28	21	25	11.5	M24	3215-072



### ISO-A TYPE FOR ISO/JIS 7388/2/A-1984A

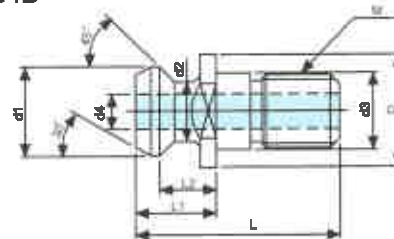


With Collant Hole

Unit:mm

ORDER NO.	TAPER NO.	L	L1	L2	D	d1	d2	d3	d4	M	H	CODE NO.
BT-529	ISO40-A	54	26	20	23	29	24	27	7	M16	3	3215-073
BT-530	ISO50-A	74	34	25	36	28	21	25	11.5	M24		3215-074

### ISO-B TYPE FOR ISO/JIS 7388/2/B-1984B

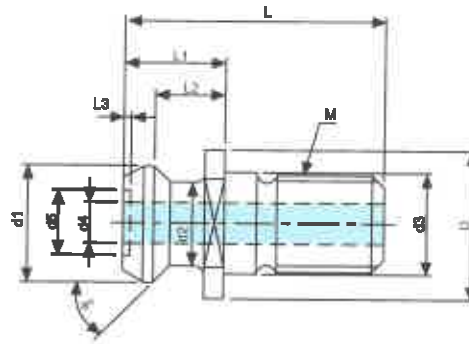


With Collant Hole

Unit:mm

ORDER NO.	TAPER NO.	L	L1	L2	D	d1	d2	d3	d4	M	CODE NO.
BT-531	ISO40-B	44.5	16.4	11.15	22.5	18.95	12.95	17	7.35	M16	3215-075
BT-532	ISO50-B	65.5	25.5	17.95	37	29.1	19.6	25	11.55	M24	3215-076

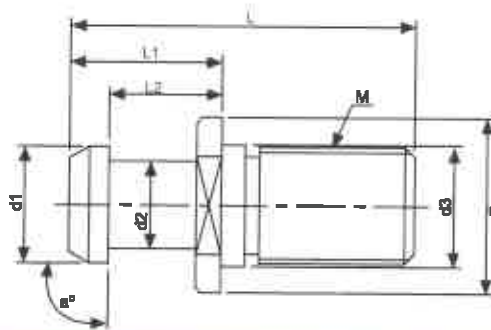
## MAZAK FOR MAZAK MACHINE



Unit:mm

ORDER NO.	TAPER NO.	a°	L	L1	L2	L3	D	d1	d2	d3	d4	d5	M	CODE NO.
BT-533	MAZAK BT50	45	65.2	25.2	17.58	1.8	37	28.95	20.83	25	10	16	M24	3215-077
BT-534	MAZAK BT40	45	44.1	19.1	14		22	18.8	12.45	17	7		M16	3215-078
BT-535	MAZAK CAT40	45	44.1	16.1	11		22	18.8	12.45	17	7		M16	3215-079

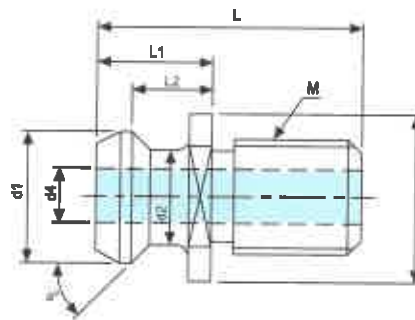
## MITSUI FOR MITSUI MACHINE



Unit:mm

ORDER NO.	TAPER NO.	a°	L	L1	L2	D	d1	d2	d3	M	CODE NO.
BT-536	MITSUI BT40	90	50	25	18	23	15	10	17	M16	3215-080
BT-537	MITSUI BT50	90	71	31	23	36	24	18	25	M24	3215-081

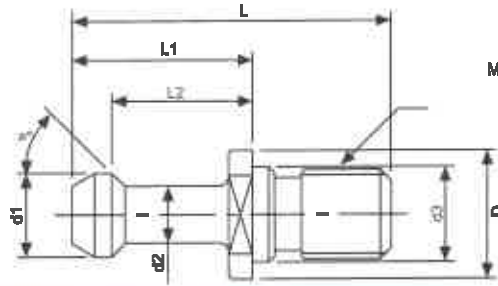
## CAT FOR ANSI B5-50



Unit:mm

ORDER NO.	TAPER NO.	a°	L	L1	L2	D	d1	d2	d4	M	CODE NO.
BT-538	CAT40	45	38.1	16.2	11.2	23.8	18.8	12.4	7.1	5/8"	3215-082
BT-539	CAT50	45	58.4	25.4	17.8	36	28.9	20.8	11.8	1"	3215-083

CAT-BT FOR BT MACHINE

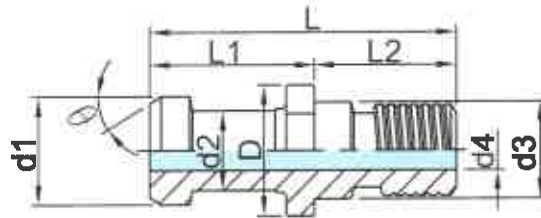


Unit:mm

ORDER NO.	TAPER NO.	a°	L	L1	L2	D	d1	d2	d3	M	CODE NO
BT-540	CAT40X45°	45	57	32	25	23	15	10		5/8"	3215-084
BT-541	CAT40X60°	60	57	32	25	23	15	10		5/8"	3215-085
BT-542	CAT40X90°	90	57	32	25	23	15	10		5/8"	3215-086
BT-543	CAT50X45°	45	78.6	45	35.2	38	23	17		1"	3215-087
BT-544	CAT50X60°	60	78.6	45	35.2	38	23	17		1"	3215-088
BT-545	CAT50X90°	90	78.8	45	35.2	38	23	17		1"	3215-089
BT-546	CAT40X45°M	45	57	32	25	23	15	10	17	M16	3215-090
BT-547	CAT40X60°M	60	57	32	25	23	15	10	17	M16	3215-091
BT-548	CAT40X90°M	90	57	32	25	23	15	10	17	M16	3215-092

# Pull Studs

FOR JIS 6339B-40I



With Collant Hole  
OKUNMA JIS #4I

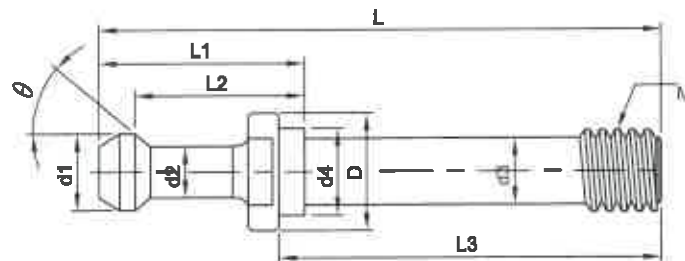
Unit:mm

ORDER NO.	TAPER NO.	a°	L	L1	L2	D	d1	d2	d3	d4	M	CODE NO.
BT-556	JIS	30	54	29	23	23	19	14	17	7	M16	3215-111

STEEL: SNCM-2

# Pull Studs

FOR MAS 40I



Unit:mm

ORDER NO.	TAPER NO.	a°	L	L1	L2	L3	D	d1	d2	d3	d4	M	CODE NO
BT-560	BT40-MTB3	45	105	35	28	70	23	15	10	17	13	M12	3215-121
BT-561	BT40-MTB4	45	110	35	28	75	23	15	10	17	13	M16	3215-122

We recommend a complete set which is included tool holder, collet chuck, collet set, pull stud, tooling locking stand, edge finder for NC machining center. it is popular and suitable sale-mix in the market.



### ORDER NO. VBT-30-0720 CODE NO. 3216-001 BT-30 WITH 7PCS. HOLDER & ER-20 COLLET

ITEM NO.	Descriptions	Figures	Quantity	Explanation
1	ER20 COLLET CHUCK BT30-ER20-60		3pcs.	For small Dia. End mill and Drills
2	MORSE TAPER ADAPTOR BT30-MTA1-50		1pc.	For drills with Morse taper Shank No.1.
3	MORSE TAPER ADAPTOR BT30-MTA2-60		1pc.	For drills with Morse taper Shank No.2.
4	END MILL HOLDER BT-30-SL12-60		1pc.	For straight shank end mill with Sidelock edge Dia. 12mm(WELDON Type)
5	END MILL HOLDER BT30-SL16-75		1pc.	For straight shank end mill with Sidelock edge Dia. 16mm(WELDON Type)
6	ER20 SPRING COLLET ER20-dØ		11pcs.	For Item 1. Including 11 collets as below: Ø3,4,5,6,7,8,9,10,11,12,13mm
7	PULL STUD BT-501, BT-502		7pcs.	BT-501 $\theta = 45^\circ$ BT-502 $\theta = 60^\circ$
8	TOOL HOLDER LOCKING STAND VTS-BT-30		1pc.	For locking the pull studs or preparing Cutting tools of tool holders.
9	ELECTRONIC EDGE FINDER VPS-20B		1pc.	For setting work coordinate on Machine Centers.

### ORDER NO. VBT-30-1520 CODE NO. 3216-011 BT-30 WITH 15PCS. HOLDER & ER-20 COLLET

ITEM NO.	Descriptions	Figures	Quantity	Explanation
1	ER20 COLLET CHUCK BT30-ER20-60		6pcs.	For small Dia. End mill and Drills
2	MORSE TAPER ADAPTOR BT30-MTA1-50		1pc.	For drills with Morse taper Shank No.1.
3	MORSE TAPER ADAPTOR BT30-MTA2-60		1pc.	For drills with Morse taper Shank No.2.
4	FACE MILL ARBOR BT30-FMB22-45		1pc.	For Holding the face milling Cutter Dia.50, 63mm
5	END MILL HOLDER BT-30-SL12-60		2pcs.	For straight shank end mill with Sidelock edge Dia. 12mm(WELDON Type)
6	END MILL HOLDER BT30-SL16-60		2pcs.	For straight shank end mill with Sidelock edge Dia. 16mm(WELDON Type)
7	END MILL HOLDER BT30-SL20-75		2pcs.	For straight shank end mill with Sidelock edge Dia. 20mm(WELDON Type)
8	ER20 SPRING COLLET ER20-dØ		11pcs.	For Item 1. Including 11 collets as below: Ø3,4,5,6,7,8,9,10,11,12,13mm
9	PULL STUD BT-501, BT-502		15pcs.	BT-501 $\theta = 45^\circ$ BT-502 $\theta = 60^\circ$
10	TOOL HOLDER LOCKING STAND VTS-BT-30		1pc.	For locking the pull studs or preparing Cutting tools of tool holders.
11	ELECTRONIC EDGE FINDER VPS-20B		1pc.	For setting work coordinate on Machine Centers.





# Complete NC Tooling Set



We recommend a complete set which is included tool holder, collet chuck, collet set, pull stud, tooling locking stand, edge finder for NC machining center. it is popular and suitable sale-mix in the market.



G.W.:39.6 kgs

**ORDER NO. VBT-40-1532 CODE NO. 3216-002 BT-40 WITH 15PCS. HOLDER & ER-32 COLLET**

ITEM NO.	Descriptions	Figures	Quantity	Explanation
1	ER32 COLLET CHUCK V-703A BT40-ER32-70		3pcs.	For small Dia. End mill and Drills
2	ER32 COLLET CHUCK V-703B BT40-ER32-100		3pcs.	For small Dia. End mill and Drills
3	MORSE TAPER ADAPTOR BT-209 BT40-MTA1-50		1pc.	For drills with Morse taper Shank No.1.
4	MORSE TAPER ADAPTOR BT-212 BT40-MTA2-50		1pc.	For drills with Morse taper Shank No.2.
5	MORSE TAPER ADAPTOR BT-215 BT40-MTA3-75		1pc.	For drills with Morse taper Shank No.3.
6	FACE MILL ARBOR BT-152 BT40-FMB22-45		1pc.	For holding the face milling Cutter Dia.50, 63mm
7	FACE MILL ARBOR BT-154 BT40-FMB27-45		1pc.	For holding the face milling Cutter Dia.80mm
8	END MILL HOLDER BT-447 BT40-SLA16-75		1pc.	For straight shank end mill with Sidelock edge Dia. 16mm(WELDON Type)
9	END MILL HOLDER BT-449 BT40-SLA20-90		1pc.	For straight shank end mill with Sidelock edge Dia. 20mm(WELDON Type)
10	END MILL HOLDER BT-450 BT40-SLA25-90		1pc.	For straight shank end mill with Sidelock edge Dia. 25mm(WELDON Type)
11	END MILL HOLDER BT-451 BT40-SLA32-90		1pc.	For straight shank end mill with Sidelock edge Dia. 32mm(WELDON Type)
12	ER32 SPRING COLLET V-32008 ER32-dØ		11pcs./set	For Item 1.2. Including 11 collets as below: Ø4,5,6,8,10,12,13,15,16,18,20mm
13	PULL STUD BT-503 OR BT-504		15pcs./set	BT-503 $\theta = 45^\circ$ BT-504 $\theta = 60^\circ$
14	TOOL HOLDER LOCKING STAND VTS-BT-40		1pc.	For locking the pull studs or preparing Cutting tools of tool holders.
15	ELECTRONIC EDGE FINDER VPS-20B		1pc.	For setting work coordinate on Machine Centers.



# Complete NC Tooling Set



We recommend a complete set which is included tool holder, collet chuck, collet set, pull stud, tooling locking stand, edge finder for NC machining center. it is popular and suitable sale-mix in the market.



## ORDER NO. VBT-40-2432 CODE NO. 3216-003 BT-40 WITH 23PCS. HOLDER & ER-32 COLLET

ITEM NO.	Descriptions	Figures	Quantity	Explanation
1	ER32 COLLET CHUCK BT40-ER32-70		4pcs.	For small Dia. End mill and Drills
2	ER32 COLLET CHUCK BT40-ER32-100		4pcs.	For small Dia. End mill and Drills
3	MORSE TAPER ADAPTOR BT40-MTA1-50		1pc.	For drills with Morse taper Shank No.1.
4	MORSE TAPER ADAPTOR BT40-MTA2-50		2pc.	For drills with Morse taper Shank No.2.
5	MORSE TAPER ADAPTOR BT40-MTA3-75		2pc.	For drills with Morse taper Shank No.3.
6	FACE MILL ARBOR BT40-FMB22-45		1pc.	For holding the face milling Cutter Dia.50, 63mm
7	FACE MILL ARBOR BT40-FMB27-45		1pc.	For holding the face milling Cutter Dia.80mm
8	END MILL ARBOR BT40-SLA16-75		2pc.	For straight shank end mill with Sidelock edge Dia. 16mm(WELDON Type)
9	END MILL ARBOR BT40-SLA20-90		2pc.	For straight shank end mill with Sidelock edge Dia. 20mm(WELDON Type)
10	END MILL ARBOR BT40-SLA25-90		2pc.	For straight shank end mill with Sidelock edge Dia. 25mm(WELDON Type)
11	END MILL ARBOR BT40-SLA32-90		2pc.	For straight shank end mill with Sidelock edge Dia. 32mm(WELDON Type)
12	ER32 SPRING COLLET ER32-dØ		11pcs./set	For item 1.2. Including 11 collets as below: Ø4,5,6,8,10,12,13,15,16,18,20mm
13	PULL STUD BT-503 OR BT-504		23pcs./set	BT-503 θ =45° BT-504 θ =60°
14	TOOL HOLDER LOCKING STAND VTS-BT-40		1pc.	For locking the pull studs or preparing Cutting tools of tool holders.
15	ELECTRONIC EDGE FINDER VPS-20B		1pc.	For setting work coordinate on Machine Centers.



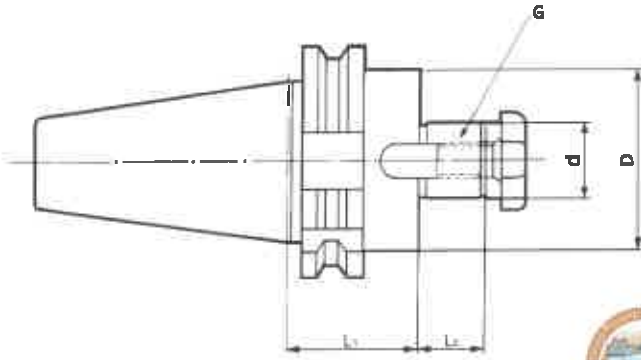
# Face Mill Holder



**VERTEX**

Holder For Face Mill Cutter.  
DIN69871 A

**DIN 69871A**



Unit:mm

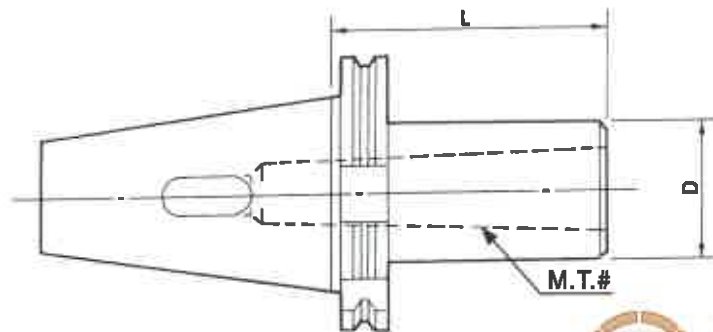
ORDER NO.	SIZE	d	D	L1	L2	G	WEIGHT(kg)	CODE NO.
SK-112	SK40-FMB22-50	22	48	50	18	M10	1.5	3211-202
SK-113	SK40-FMB27-50	27	60	50	20	M12	1.6	3211-203
SK-114	SK40-FMB32-50	32	62	50	22	M16	2.1	3211-204
SK-117	SK50-FMB22-50	22	60	50	18	M10	3.5	3211-205
SK-118	SK50-FMB27-50	27	70	50	20	M12	3.5	3211-206
SK-119	SK50-FMB32-60	32	75	60	22	M16	3.7	3211-207
SK-120	SK50-FMB40-60	40	85	60	26	M20	4.7	3211-208



# Morse Taper Holder-DIN 6383

Holder For Morse Taper Shank With Tang.  
DIN69871 A

**DIN 69871A**



Unit:mm

ORDER NO.	SIZE	M.T.#	L	D	WEIGHT(kg)	CODE NO.
SK-214	SK40-MT1-45	1	45	25	1	3211-133
SK-215	SK40-MT2-50	2	50	32	1	3211-134
SK-216	SK40-MT3-70	3	70	40	1.2	3211-135
SK-217	SK40-MT4-95	4	95	48	1.3	3211-136
SK-218	SK50-MT1-45	1	45	25	3	3211-137
SK-219	SK50-MT2-60	2	60	32	2.9	3211-138
SK-220	SK50-MT3-65	3	65	40	3	3211-139



# Sidelock End Mill Holder



DIN69871 A

WELDON TYPE

DIN 69871A

■ Dimensions:

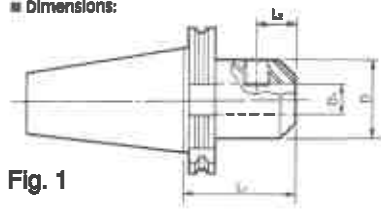


Fig. 1

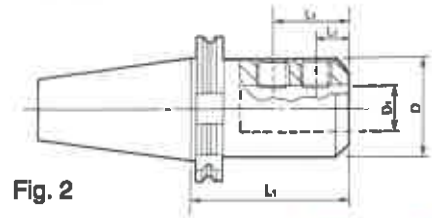


Fig. 2



Unit:mm



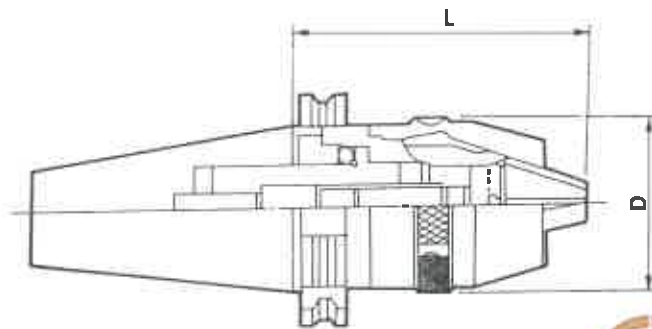
ORDER NO.	SIZE	Fig.	D1	D	L1	L2	L3	WEIGHT (kg)	CODE NO.
SK-417	SK40-EM6-50	1	6	25	50	18	-	1	3213-207
SK-418	SK40-EM8-50	1	8	28	50	18	-	1.1	3213-208
SK-419	SK40-EM10-50	1	10	35	50	20	-	1.1	3213-209
SK-420	SK40-EM12-50	1	12	42	50	22.5	-	1.2	3213-210
SK-421	SK40-EM16-63	1	16	48	63	24	-	1.5	3213-211
SK-422	SK40-EM20-63	1	20	52	63	25	-	1.4	3213-212
SK-423	SK40-EM25-100	2	25	65	100	24	49	2.4	3213-213
SK-427	SK50-EM10-63	1	10	35	63	20	-	3.4	3213-217
SK-428	SK50-EM12-63	1	12	42	63	22.5	-	3.4	3213-218
SK-429	SK50-EM16-63	1	16	48	63	24	-	3.5	3213-219
SK-430	SK50-EM20-63	1	20	52	63	25	-	3.5	3213-220
SK-431	SK50-EM25-80	2	25	65	80	24	49	3.8	3213-221

MILL HOLDER



# Drill Chuck Holder / APU

DIN 69871A



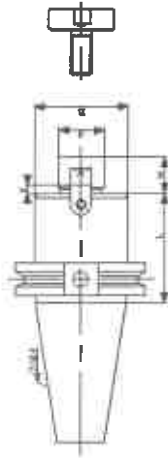
Unit:mm

ORDER NO.	SIZE DIN 69871A	SAME SIZE	Clamping range (Ømm)	D	L		WEIGHT (kg)	CODE NO.
					Minimum	Maximum		
SK-511	SK40-APU08	INT-8-SK40	0.5-8	35.6	81	90	1.4	3301-001
SK-512	SK40-APU13	INT-13-SK40	1-13	52	99	111	1.9	3301-002
SK-514	SK50-APU13	INT-13-SK50	1-13	52	93	106	3.9	3301-004
SK-509	SK30-APU08	INT-8-SK30	0.5-8	35.6	80	88	0.7	3301-005
SK-510	SK30-APU13	INT-13-SK30	1-13	52	98	104	1.34	3301-006
SK-515	SK40-APU16	INT-16-SK40	3-16	56.8	127	140	2.4	3301-007
SK-516	SK50-APU16	INT-16-SK50	3-16	56.8	98	111	3.9	3301-008

# Face Mill Holder



## CAT-FMA



ORDER NO.	L	Ød(h6)	ØD	H	K	W	CODE NO.
CAT40-FMA25.4-2.0"	2.0"	25.4	50	20	5	9.5	3213-230
CAT40-FMA31.75-2.25"	2.25"	31.75	60	22	7	12.7	3213-231
CAT40-FMA38.1-2.4"	2.4"	38.1	80	25	9	15.9	3213-232
CAT50-FMA25.4-2.0"	2.0"	25.4	50	20	5	9.5	3213-233
CAT50-FMA31.75-1.5"	1.5"	31.75	60	22	7	12.7	3213-234
CAT50-FMA38.1-2.4"	2.4"	38.1	80	25	9	15.9	3213-235
CAT50-FMA50.8-2.4"	2.4"	50.8	100	28	12	15.9	3213-236

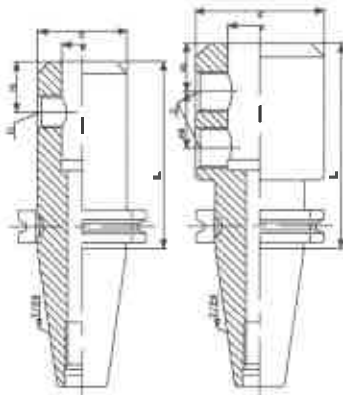
# Side Lock Holders

## CAT-SL



FIG 1

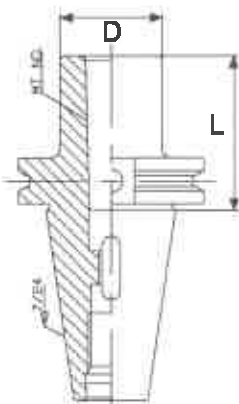
FIG 2



ORDER NO.	FIG	L	Ød	ØD	H1	H2	G	CODE NO.
CAT40-SL08-2.50"	1	2.5"	8	28	18	-	M8	3213-240
CAT40-SL10-2.50"			10	35	20		M10	3213-241
CAT40-SL12-2.62"		2.62"	12	42	22.5		M12	3213-242
CAT40-SL16-2.75"		2.75"	16	48	24		M14	3213-243
CAT40-SL20-3.50"		3.5"	20	48	25		M16	3213-244
CAT40-SL25-4.00"	2	4.0"	25	62	24	25	M18	3213-245
CAT40-SL32-4.00"			32	72	28	M20	3213-246	
CAT50-SL08-2.50"	1	2.5"	8	28	18	-	M8	3213-247
CAT50-SL10-2.50"			10	35	20		M10	3213-248
CAT50-SL12-2.62"		2.62"	12	42	22.5		M12	3213-249
CAT50-SL16-2.75"		2.75"	16	48	24		M14	3213-250
CAT50-SL20-3.50"		3.5"	20	52	25		M16	3213-251
CAT50-SL25-4.00"	2	4.0"	25	65	24	25	M18	3213-252
CAT50-SL32-4.00"			32	72	28	M20	3213-253	
CAT50-SL40-4.70"			4.7"	40	90		30	32

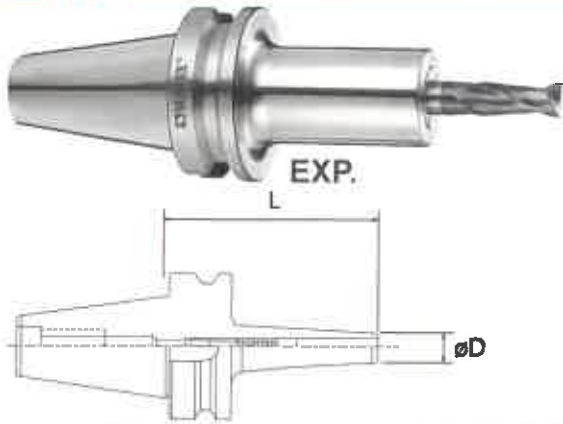
# Morse Taper Holders

## CAT-MTA



ORDER NO.	MT NO.	L	ØD	CODE NO.
CAT30-MTA2-60	2	60	32	3213-260
CAT30-MTA3-80	3	80	40	3213-261
CAT40-MTA2-60	2	60	32	3213-262
CAT40-MTA3-75	3	75	40	3213-263
CAT40-MTA4-90	4	90	50	3213-264
CAT50-MTA2-45	2	45	32	3213-265
CAT50-MTA3-45	3	45	40	3213-266
CAT50-MTA4-75	4	75	50	3213-267
CAT50-MTA5-105	5	105	65	3213-268

# DC High Speed Slim Chuck System



## DC Collet System

- Back pulling lock design.
- High clamping force.
- Rigid & high stability.
- For high precision cutting.
- Collets with different sizes can be used on all kind of end mills, reamers, drills and tapping.
- Runout: below 0.005mm.
- Smallest outer diameter.
- Max speed :30.000rpm;G2.5.

DC



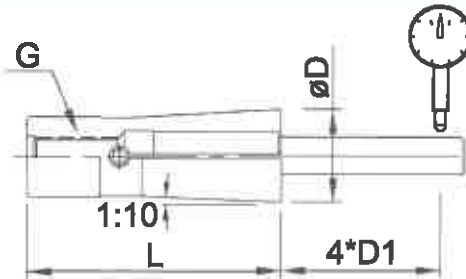
ORDER NO.	COLLET TYPE	L	øD	CLAMPING RANGE	WRENCH	BACK SCREW	WEIGHT (kg)	CODE NO.
BT40-DC6-60	DC6	60	15	2~6	4mm	M5	1.1	3218-046
BT40-DC6-90	DC6	90	15	2~6			1.2	3218-047
BT40-DC8-90	DC8	90	22	3~8	5mm	M6	1.2	3218-100
BT40-DC8-120	DC8	120	22	3~8			1.4	3218-101
BT40-DC10-90	DC10	90	28	3~10	6mm	M8	1.3	3218-102
BT40-DC10-120	DC10	120	28	3~10			1.5	3218-103
BT40-DC12-90	DC12	90	35	3~12	8mm	M10	1.35	3218-104
BT40-DC12-120	DC12	120	35	3~12			1.6	3218-105

## Small Collet Of Slim Collet Chuck



- DC6 Series : For Clamping End Mills Drills, Reamers And Taps.
- Max. Clamping Diameter
- Runout : Below 0.005 mm

Precision DC Collet within 5 micron



## DC Collet System

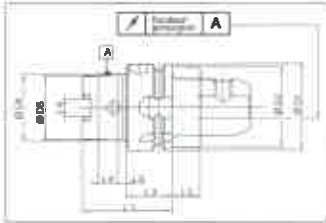
### Dimension

TYPE	øD	L	G
DC6	9.5	36	M5*0.8P
DC8	15	45	M6*1.0P
DC10	19	52	M8-1.25P
DC12	22	60	M10*1.5P

ORDER NO.	øD	L	CLAMPING CAPACITY FOR END MILL DLA.	CLAMPING CAPACITY FOR DRILL REAMER. TAP	WEIGHT(kg)	CODE NO.
DC6-2	9.5	36	2	2.00-1.75	0.02	3218-056
DC6-2.5	9.5	36	2.5	2.50-2.25	0.02	3218-058
DC6-3	9.5	36	3	3.00-2.75	0.02	3218-065
DC6-3.5	9.5	36	3.5	3.50-3.25	0.02	3218-067
DC6-3.175	9.5	36	3.175	3.50-3.175	0.02	3218-068
DC6-4	9.5	36	4	4.00-3.75	0.02	3218-069
DC6-4.5	9.5	36	4.5	4.50-4.25	0.02	3218-071
DC6-5	9.5	36	5	5.00-4.75	0.02	3218-073
DC6-5.5	9.5	36	5.5	5.50-5.25	0.02	3218-075
DC6-6	9.5	36	6	6.00-5.75	0.02	3218-077
DC8-3	15	45	3	3.00-2.75	0.037	3218-120
DC8-3.175	15	45	3.175	3.175-2.92	0.037	3218-121
DC8-4	15	45	4	4.00-3.75	0.036	3218-122
DC8-5	15	45	5	5.00-4.75	0.035	3218-123
DC8-6	15	45	6	6.00-5.75	0.034	3218-124
DC8-7	15	45	8	8.00-7.75	0.03	3218-125
DC10-3	19	52	3	3.00-2.75	0.074	3218-140
DC10-4	19	52	4	4.00-3.75	0.074	3218-141
DC10-5	19	52	5	5.00-4.75	0.074	3218-142
DC10-6	19	52	6	6.00-5.75	0.072	3218-143
DC10-8	19	52	8	8.00-7.75	0.068	3218-144
DC10-10	19	52	10	10.00-9.75	0.062	3218-145
DC12-3	22	60	3	3.00-2.75	0.11	3218-160
DC12-3	22	60	4	4.00-3.75	0.11	3218-161
DC12-3	22	60	5	5.00-4.75	0.108	3218-162
DC12-3	22	60	6	6.00-5.75	0.108	3218-163
DC12-3	22	60	8	8.00-7.75	0.104	3218-164
DC12-3	22	60	10	10.00-9.75	0.096	3218-165
DC12-3	22	60	12	12.00-11.75	0.084	3218-166

# HSK-A63,A100(DIN-69893) Tool Holder VERTEX

## Form A



Compared to the steep taper the HSK has the following advantages

- High repetition accuracy when clamping tools into spindle
- Fix axial positioning by flat contact surface
- Suitable for high speed cutting
- No pull stud necessary

### Material

- Special Cast-hardening steel for highly stressed parts
- Surface hardness 58-2 HRC

Tensile strength in core min.1000 N / mm<sup>2</sup>

DIN 69893

SIZE	ØD1	ØD2	ØD3	ØD4	L1	L2	L3	L4	L5	L6
HSK 63	63	53	46.53	48	58	16	26	14.7	6.3	12.54

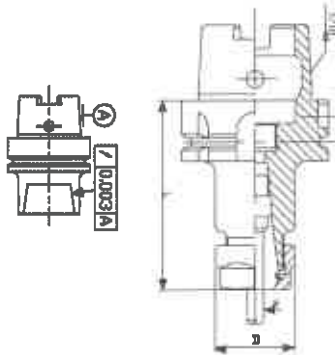
# HSK-A63,A100(DIN69893A) ER Collet Chucks

DIN69893 A

10000 R.P.M. G6.3

Caution: Excessive torque will damage the chuck, nut or collet.

ORDER NO.	L	ØD	Ød RANG	WEIGHT (kgs)	CODE NO.
HSK-A63-ER16-100	100			1.07	3217-100
HSK-A63-ER16-150	150	30	0.5-10	1.33	3217-101
HSK-A63-ER20-100	100			1.07	3217-102
HSK-A63-ER20-150	150	35	1.0-13	1.47	3217-103
HSK-A63-ER25-100	100			1.29	3217-104
HSK-A63-ER25-150	150	42	1.0-16	1.80	3217-105
HSK-A63-ER32-100	100			1.48	3217-106
HSK-A63-ER32-150	150	50	2.0-20	2.16	3217-107
HSK-A63-ER40-100	100			1.56	3217-108
HSK-A63-ER40-150	150	63	3.0-26	2.27	3217-109
HSK-A100-ER16-100	100			2.3	3217-110
HSK-A100-ER16-150	150	30	0.5-10	2.5	3217-111
HSK-A100-ER20-100	100			2.4	3217-112
HSK-A100-ER20-150	150	35	1.0-13	2.7	3217-113
HSK-A100-ER25-100	100			2.64	3217-114
HSK-A100-ER25-150	150	42	1.0-16	3.2	3217-115
HSK-A100-ER32-100	100			2.8	3217-116
HSK-A100-ER32-150	150	50	2.0-20	3.67	3217-117
HSK-A100-ER40-100	100			3.1	3217-118
HSK-A100-ER40-150	150	63	3.0-26	4.2	3217-119

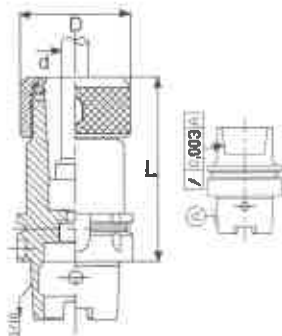


# HSK-A63,A100(DIN69893A) OZ Collet Chucks

DIN69893 A

10000 R.P.M. G6.3

ORDER NO.	L	ØD	Ød RANG	WEIGHT (kgs)	CODE NO.
HSK-A63-OZ25-100	100	60	2-25	1.6	3217-121
HSK-A63-OZ32-120	120	78	4-32	2.3	3217-122
HSK-A100-OZ25-100	100	60	2-25	2.9	3217-123
HSK-A100-OZ32-120	120	78	4-32	3.6	3217-124



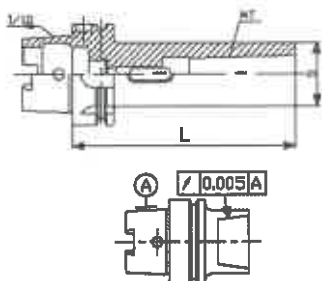
# HSK-A63,A100 Morse Taper Holders

DIN69892 A

DIN 69892A

10000 R.P.M. G6.3

ORDER NO.	MT NO.	L	ØD	kgs	CODE NO.
HSK-A63-MTA1-100	1	100	25	1	3217-130
HSK-A63-MTA2-120	2	120	35	1.3	3217-131
HSK-A63-MTA3-140	3	140	40	1.6	3217-132
HSK-A63-MTA4-160	4	160	50	2.2	3217-133
HSK-A100-MTA1-110	1	100	25	2.2	3217-134
HSK-A100-MTA2-120	2	120	35	2.5	3217-135
HSK-A100-MTA3-150	3	140	40	2.9	3217-136
HSK-A100-MTA4-170	4	160	50	3.5	3217-137
HSK-A100-MTA5-200	5	200	65	5.3	3217-138



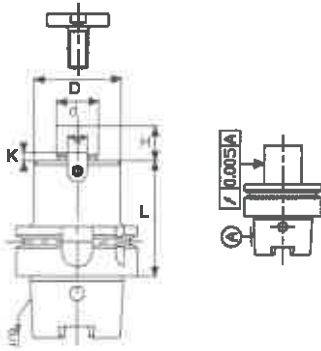


# HSK-A63,A100 Face Mill Holders



DIN69893 A

DIN 69893A



10000 R.P.M. G6.3

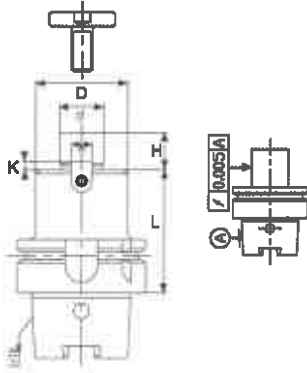
ORDER NO.	L	Ød/h6	ØD	H	K	W	kgs	CODE NO.
HSK-A63-FMA25.4-60	60	25.4	50	20	5	9.5	1.4	3217-140
HSK-A63-FMA25.4-120	120	25.4	50	20	5	9.5	2.4	3217-141
HSK-A63-FMA31.75-60	60	31.75	60	22	7	12.7	1.6	3217-142
HSK-A63-FMA31.75-120	120	31.75	60	22	7	12.7	2.6	3217-143
HSK-A63-FMA38.1-60	60	38.1	80	25	9	15.9	2.0	3217-144
HSK-A63-FMA38.1-120	120	38.1	80	25	9	15.9	3.0	3217-145
HSK-A100-FMA25.4-60	60	25.4	50	20	5	9.5	2.7	3217-146
HSK-A100-FMA25.4-120	120	25.4	50	20	5	9.5	3.7	3217-147
HSK-A100-FMA31.75-60	60	31.75	60	22	7	12.7	2.9	3217-148
HSK-A100-FMA31.75-120	120	31.75	60	22	7	12.7	3.9	3217-149
HSK-A100-FMA38.1-60	60	38.1	80	25	9	15.9	3.3	3217-150
HSK-A100-FMA38.1-120	120	38.1	80	25	9	15.9	4.3	3217-151
HSK-A100-FMA50.8-60	60	50.8	100	28	12	15.9	4.1	3217-152
HSK-A100-FMA50.8-120	120	50.8	100	28	12	15.9	5.6	3217-153



# HSK-A63,A100 Face Mill Holders

DIN69893 A

DIN 69893A



10000 R.P.M. G6.3

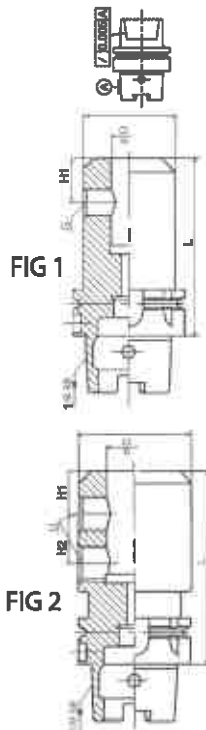
ORDER NO.	L	Ød/h6	ØD	H	K	W	kgs	CODE NO.
HSK-A63-FMB22-50	50	22	48	18	5	10	1.1	3217-156
HSK-A63-FMB22-120	120	22	48	18	5	10	2.1	3217-157
HSK-A63-FMB27-60	60	27	60	20	6	12	1.5	3217-158
HSK-A63-FMB27-120	120	27	60	20	6	12	2.8	3217-159
HSK-A63-FMB32-60	60	32	72	22	7	14	1.8	3217-160
HSK-A63-FMB32-120	120	32	72	22	7	14	3.8	3217-161
HSK-A63-FMB40-60	60	40	80	25	8	16	2.1	3217-162
HSK-A63-FMB40-120	120	40	80	25	8	16	3.2	3217-163
HSK-A100-FMB22-50	50	22	48	18	5	10	2.5	3217-164
HSK-A100-FMB22-120	120	22	48	18	5	10	3.4	3217-165
HSK-A100-FMB27-60	60	27	60	20	6	12	2.9	3217-166
HSK-A100-FMB27-120	120	27	60	20	6	12	4.3	3217-167
HSK-A100-FMB32-60	60	32	72	22	7	14	3.4	3217-168
HSK-A100-FMB32-120	120	32	72	22	7	14	5.3	3217-169
HSK-A100-FMB40-60	60	40	80	25	8	16	3.6	3217-170
HSK-A100-FMB40-120	120	40	80	25	8	16	6.0	3217-171



# HSK-A63,A100 Sidelock End Mill Holder

DIN69893 A

DIN 69893A



ORDER NO.	L	Ød	ØD	H1	H2	G	FIG	WEIGHT kg	CODE NO.
HSK-A63-SLA6-80	80	6	25	18		M6x0.75		0.8	3217-180
HSK-A63-SLA8-80	80	8	28	18		M8x1.0		0.9	3217-181
HSK-A63-SLA10-80	80	10	35	20		M10x1.0		1.0	3217-182
HSK-A63-SLA12-90	90	12	42	22.5		M12x1.5	1	1.2	3217-183
HSK-A63-SLA14-90	90	14	45	23		M12x1.5	1	1.3	3217-184
HSK-A63-SLA16-100	100	16	48	24		M14x1.5		1.5	3217-185
HSK-A63-SLA18-100	100	18	50	24		M14x1.5		1.6	3217-186
HSK-A63-SLA20-100	100	20	52	25		M16x1.5		1.7	3217-187
HSK-A63-SLA25-110	110	25	62	24	25	M18x2.0	2	2.2	3217-188
HSK-A63-SLA32-110	110	32	63	24	28	M20x2.0	2	2.1	3217-189
HSK-A100-SLA10-80	80	10	35	20		M10x1.0		2.4	3217-190
HSK-A100-SLA12-90	90	12	42	22.5		M12x1.5	1	2.6	3217-191
HSK-A100-SLA16-100	100	16	48	24		M14x1.5		2.9	3217-192
HSK-A100-SLA20-100	100	20	52	25		M16x1.5		3.0	3217-193
HSK-A100-SLA25-110	110	25	64	24	25	M18x2.0	2	3.6	3217-194
HSK-A100-SLA32-110	110	32	72	24	28	M20x2.0	2	4.1	3217-195
HSK-A100-SLA40-120	120	40	80	30	32	M20x2.0	2	4.7	3217-196

MORSE TAPER HOLDERS





# SK Spring Collet System



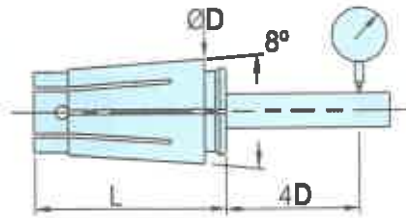
HRC:47°

10µm

JIS STD.

15000 R.P.M.

A GRADE



SK



THE GRIPPING RANGE OF DIA. BELOW 3MM IS 0.25MM  
 THE GRIPPING RANGE OF DIA. OVER 3MM IS 0.5MM  
 THE RUNOUT OF A COLLET IS 10µ.  
 SCM 440



TYPE	SK-6				SK-10				SK-16				SK-20				SK-25														
	0.005								0.02								0.135								0.205						
WEIGHT (KGS)	ORDER NO.	ØD	CAP. mm Ø	CODE NO.	ORDER NO.	ØD	CAP. mm Ø	CODE NO.	ORDER NO.	ØD	CAP. mm Ø	CODE NO.	ORDER NO.	ØD	CAP. mm Ø	CODE NO.	ORDER NO.	ØD	CAP. mm Ø	CODE NO.											
INDIVIDUAL UNIT	SK0601A	2	2-1.75	3218-400	SK1001A	2	2-1.75	3218-411	SK1601A	3	3-2.75	3218-430	SK2001A	3	3-2.75	3218-460	SK2501A	6	6-5.5	3218-470											
	SK0602A	2.5	2.5-2.25	3218-401	SK1002A	2.5	2.5-2.25	3218-412	SK1602A	3.175	3.175-2.7	3218-431	SK2002A	4	4-3.5	3218-461	SK2502A	8	8-7.5	3218-471											
	SK0603A	3	3-2.75	3218-402	SK1003A	3	3-2.75	3218-413	SK1603A	3.5	3.5-3	3218-432	SK2003A	6	6-5.5	3218-462	SK2503A	10	10-9.5	3218-472											
	SK0604A	3.5	3.5-3	3218-403	SK1004A	3.175	3.175-2.7	3218-414	SK1604A	4	4-3.5	3218-433	SK2004A	8	8-7.5	3218-463	SK2504A	12	12-11.5	3218-473											
	SK0605A	4	4-3.5	3218-404	SK1005A	3.5	3.5-3	3218-415	SK1605A	4.5	4.5-4	3218-434	SK2005A	10	10-9.5	3218-464	SK2505A	14	14-13.5	3218-474											
	SK0606A	4.5	4.5-4	3218-405	SK1006A	4	4-3.5	3218-416	SK1606A	5	5-4.5	3218-435	SK2006A	12	12-11.5	3218-465	SK2506A	18	18-15.5	3218-475											
	SK0607A	5	5-4.5	3218-406	SK1007A	4.5	4.5-4	3218-417	SK1607A	5.5	5.5-5	3218-436	SK2007A	16	16-15.5	3218-466	SK2507A	18	18-17.5	3218-476											
	SK0608A	5.5	5.5-5	3218-407	SK1008A	5	5-4.5	3218-418	SK1608A	6	6-5.5	3218-437	SK2008A	20	20-19.5	3218-467	SK2508A	20	20-19.5	3218-477											
	SK0609A	6	6-5.5	3218-408	SK1009A	5.5	5.5-5	3218-419	SK1609A	6.5	6.5-6	3218-438					SK2509A	22	22-21.5	3218-478											
					SK1010A	6	6-5.5	3218-420	SK1610A	7	7-6.5	3218-439					SK2510A	24	24-23.5	3218-479											
					SK1011A	6.5	6.5-6	3218-421	SK1611A	7.5	7.5-7	3218-440					SK2511A	25	25-24.5	3218-480											
					SK1012A	7	7-6.5	3218-422	SK1612A	8	8-7.5	3218-441					SK2512A	25.4	25.4-25	3218-481											
					SK1013A	7.5	7.5-7	3218-423	SK1613A	8.5	8.5-8	3218-442																			
					SK1014A	8	8-7.5	3218-424	SK1614A	9	9-8.5	3218-443																			
					SK1015A	8.5	8.5-8	3218-425	SK1615A	9.5	9.5-9	3218-444																			
					SK1016A	9	9-8.5	3218-426	SK1616A	10	10-9.5	3218-445																			
					SK1017A	9.5	9.5-9	3218-427	SK1617A	10.5	10.5-10	3218-446																			
					SK1018A	10	10-9.5	3218-428	SK1618A	11	11-10.5	3218-447																			
									SK1619A	11.5	11.5-11	3218-448																			
									SK1620A	12	12-11.5	3218-449																			
								SK1621A	12.5	12.5-12	3218-450																				
								SK1622A	13	13-12.5	3218-451																				
								SK1623A	13.5	13.5-13	3218-452																				
								SK1624A	14	14-13.5	3218-453																				
								SK1625A	14.5	14.5-14	3218-454																				
								SK1626A	15	15-14.5	3218-455																				
								SK1627A	15.5	15.5-15	3218-456																				
								SK1628A	16	16-15.5	3218-457																				

TYPE	D	L	WEIGHT (kgs)
SK6	10.5	25	0.005
SK10	15.5	30.5	0.02
SK16	24.5	45	0.08
SK20	29.5	50	0.135
SK25	35.5	57	0.205



# SK Spring Collet System



HRC:47°

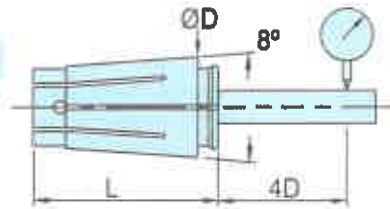
5µm

JIS STD.

15000 R.P.M.



AA GRADE



THE GRIPPING RANGE OF DIA. BELOW 3MM IS 0.25MM  
THE GRIPPING RANGE OF DIA. OVER 3MM IS 0.5MM  
THE RUNOUT OF AA COLLET IS 5µ.  
SCM 440



TYPE	SK-6				SK-10				SK-16				SK-20				SK-25				
	0.005				0.02				0.08				0.135				0.205				
WEIGHT (KGS)	ORDER NO.	ØD	CAP. mm Ø	CODE NO.	ORDER NO.	ØD	CAP. mm Ø	CODE NO.	ORDER NO.	ØD	CAP. mm Ø	CODE NO.	ORDER NO.	ØD	CAP. mm Ø	CODE NO.	ORDER NO.	ØD	CAP. mm Ø	CODE NO.	
INDIVIDUAL UNIT	SK0601AA	2	2-1.75	3218-500	SK1001AA	2	2-1.75	3218-511	SK1601AA	3	3-2.75	3218-530	SK2001AA	3	3-2.75	3218-560	SK2501AA	6	6-5.5	3218-570	
	SK0602AA	2.5	2.5-2.25	3218-501	SK1002AA	2.5	2.5-2.25	3218-512	SK1602AA	3.175	3.175-2.7	3218-531	SK2002AA	4	4-3.5	3218-561	SK2502AA	8	8-7.5	3218-571	
	SK0603AA	3	3-2.75	3218-502	SK1003AA	3	3-2.75	3218-513	SK1603AA	3.5	3.5-3	3218-532	SK2003AA	6	6-5.5	3218-562	SK2503AA	10	10-9.5	3218-572	
	SK0604AA	3.5	3.5-3	3218-503	SK1004AA	3.175	3.175-2.7	3218-514	SK1604AA	4	4-3.5	3218-533	SK2004AA	8	8-7.5	3218-563	SK2504AA	12	12-11.5	3218-573	
	SK0605AA	4	4-3.5	3218-504	SK1005AA	3.5	3.5-3	3218-515	SK1605AA	4.5	4.5-4	3218-534	SK2005AA	10	10-9.5	3218-564	SK2505AA	14	14-13.5	3218-574	
	SK0606AA	4.5	4.5-4	3218-505	SK1006AA	4	4-3.5	3218-516	SK1606AA	5	5-4.5	3218-535	SK2006AA	12	12-11.5	3218-565	SK2506AA	16	16-15.5	3218-575	
	SK0607AA	5	5-4.5	3218-506	SK1007AA	4.5	4.5-4	3218-517	SK1607AA	5.5	5.5-5	3218-536	SK2007AA	16	16-15.5	3218-566	SK2507AA	18	18-17.5	3218-576	
	SK0608AA	5.5	5.5-5	3218-507	SK1008AA	5	5-4.5	3218-518	SK1608AA	6	6-5.5	3218-537	SK2008AA	20	20-19.5	3218-567	SK2508AA	20	20-19.5	3218-577	
	SK0609AA	6	6-5.5	3218-508	SK1009AA	5.5	5.5-5	3218-519	SK1609AA	6.5	6.5-6	3218-538					SK2509AA	22	22-21.5	3218-578	
					SK1010AA	6	6-5.5	3218-520	SK1610AA	7	7-6.5	3218-539						SK2510AA	24	24-23.5	3218-579
					SK1011AA	6.5	6.5-6	3218-521	SK1611AA	7.5	7.5-7	3218-540						SK2511AA	25	25-24.5	3218-580
					SK1012AA	7	7-6.5	3218-522	SK1612AA	8	8-7.5	3218-541						SK2512AA	25.4	25.4-25	3218-581
					SK1013AA	7.5	7.5-7	3218-523	SK1613AA	8.5	8.5-8	3218-542									
					SK1014AA	8	8-7.5	3218-524	SK1614AA	9	9-8.5	3218-543									
					SK1015AA	8.5	8.5-8	3218-525	SK1615AA	9.5	9.5-9	3218-544									
					SK1016AA	9	9-8.5	3218-526	SK1616AA	10	10-9.5	3218-545									
					SK1017AA	9.5	9.5-9	3218-527	SK1617AA	10.5	10.5-10	3218-546									
					SK1018AA	10	10-9.5	3218-528	SK1618AA	11	11-10.5	3218-547									
									SK1619AA	11.5	11.5-11	3218-548									
									SK1620AA	12	12-11.5	3218-549									
									SK1621AA	12.5	12.5-12	3218-550									
									SK1622AA	13	13-12.5	3218-551									
									SK1623AA	13.5	13.5-13	3218-552									
									SK1624AA	14	14-13.5	3218-553									
									SK1625AA	14.5	14.5-14	3218-554									
									SK1626AA	15	15-14.5	3218-555									
									SK1627AA	15.5	15.5-15	3218-556									
									SK1628AA	16	16-15.5	3218-557									

SK COLLET



# BT-SK Collet Chuck System



JIS STD. 15000 R.P.M. 2.5G

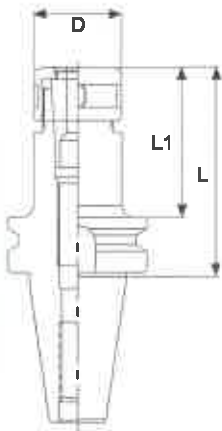
AA

THE SK CHUCK IS ACCORDING TO THE DESIGN OF ANGEL 8 WITH HIGH ACCURACY AND HIGH GRIPPING RANGE. THE GRIPPING TORQUE IS HIGHER THAN STANDARD ER CHUCK.

THE DYNAMIC BALANCE OF SK CHUCK CAN BE REACHED 15000RPM X 2.5G.



ORDER NO.	BT TYPE	COLLET TYPE	COLLET SIZE	D	L	L1	WEIGHT (KGS)	CODE NO.
SKB-201	BT-30-SK6-60	SK6	2-6	20	60	38	0.5	3218-600
SKB-202	BT-30-SK6-90	SK6	2-6	20	90	68	0.55	3218-601
SKB-203	BT-30-SK10-60	SK10	2-10	28	60	38	0.5	3218-602
SKB-204	BT-30-SK10-90	SK10	2-10	28	90	68	0.7	3218-603
SKB-205	BT-30-SK16-60	SK16	3-16	40	60	38	0.6	3218-604
SKB-206	BT-30-SK16-90	SK16	3-16	40	90	68	0.7	3218-605
SKB-207	BT-40-SK6-60	SK6	2-6	20	60	33	0.9	3218-606
SKB-208	BT-40-SK6-90	SK6	2-6	20	90	63	1	3218-607
SKB-209	BT-40-SK6-120	SK6	2-6	20	120	93	1.2	3218-608
SKB-210	BT-40-SK10-60	SK10	2-10	28	60	33	1	3218-609
SKB-211	BT-40-SK10-90	SK10	2-10	28	90	63	1.1	3218-610
SKB-212	BT-40-SK10-120	SK10	2-10	28	120	93	1.2	3218-611
SKB-213	BT-40-SK10-150	SK10	2-10	28	150	123	1.3	3218-612
SKB-214	BT-40-SK16-60	SK16	3-16	40	60	33	1.2	3218-613
SKB-215	BT-40-SK16-90	SK16	3-16	40	90	63	1.3	3218-614
SKB-216	BT-40-SK16-120	SK16	3-16	40	120	93	1.4	3218-615
SKB-217	BT-40-SK16-150	SK16	3-16	40	150	123	1.5	3218-616
SKB-218	BT-40-SK20-60	SK20	3-20	50	60	33	1.2	3218-617
SKB-219	BT-40-SK20-90	SK20	3-20	50	90	63	1.3	3218-618
SKB-221	BT-40-SK20-150	SK20	3-20	50	150	123	1.5	3218-620
SKB-222	BT-40-SK25-80	SK25	6-25	55	80	53	1.5	3218-621
SKB-223	BT-40-SK25-100	SK25	6-25	55	100	73	1.65	3218-622
SKB-224	BT-50-SK6-100	SK6	2-6	20	100	62	3.6	3218-623
SKB-225	BT-50-SK6-150	SK6	2-6	20	150	112	4	3218-624
SKB-226	BT-50-SK10-100	SK10	2-10	28	100	62	3.6	3218-625
SKB-227	BT-50-SK10-150	SK10	2-10	28	150	112	4	3218-626
SKB-228	BT-50-SK16-100	SK16	3-16	40	100	62	4	3218-627
SKB-229	BT-50-SK16-150	SK16	3-16	40	150	112	4.5	3218-628
SKB-230	BT-50-SK20-100	SK20	3-20	50	100	62	4.3	3218-629
SKB-231	BT-50-SK20-150	SK20	3-20	50	150	112	5.3	3218-630
SKB-232	BT-50-SK25-100	SK25	6-25	55	100	62	4.5	3218-631
SKB-233	BT-50-SK25-150	SK25	6-25	55	150	112	5.5	3218-632



SK



## Set Of SK Collet And MAS BT Chuck

DYNAMIC BALANCE TESTED

JIS STD.

15000 R.P.M.

AA



### SK COLLET SET

#### METRIC RANGE SET SIZE

SK06/5pcs : Ø2, 3, 4, 5, 6
SK10/8pcs : Ø3, 4, 5, 6, 7, 8, 9, 10
SK16/8pcs : Ø3, 4, 6, 8, 10, 12, 14, 16
SK20/8pcs : Ø3, 4, 6, 8, 10, 12, 16, 20
SK25/7pcs : Ø6, 8, 10, 12, 16, 20, 25

ORDER NO.	BT TYPE	COLLET TYPE	SET RANGE	COLLET PCS	WEIGHT (kg)	CODE NO.
SKB-301	BT-30-SK6-60L	SK6	2-6	5	1.3	3218-640
SKB-302	BT-30-SK6-90L	SK6	2-6	5	1.45	3218-641
SKB-303	BT-30-SK10-60L	SK10	3-10	8	1.7	3218-642
SKB-304	BT-30-SK10-90L	SK10	3-10	8	1.9	3218-643
SKB-305	BT-30-SK16-60L	SK16	3-16	8	2.5	3218-644
SKB-306	BT-30-SK16-90L	SK16	3-16	8	2.8	3218-645
SKB-307	BT-40-SK6-80L	SK6	2-6	5	2.1	3218-646
SKB-308	BT-40-SK6-90L	SK6	2-6	5	2.3	3218-647
SKB-309	BT-40-SK10-60L	SK10	3-10	8	2.6	3218-648
SKB-310	BT-40-SK10-90L	SK10	3-10	8	2.8	3218-649
SKB-311	BT-40-SK16-60L	SK16	3-16	8	3	3218-650
SKB-312	BT-40-SK16-90L	SK16	3-16	8	3.3	3218-651
SKB-313	BT-40-SK20-60L	SK20	4-20	8	3.8	3218-652
SKB-314	BT-40-SK20-90L	SK20	4-20	8	4.1	3218-653
SKB-315	BT-40-SK25-80L	SK25	6-25	7	4.5	3218-654

# ST-SK Straight Chuck



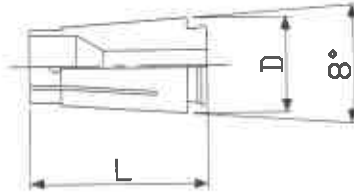
JIS STD. 15000 R.P.M.  
AA



ORDER NO.	TYPE	COLLET	D	L	L1	WEIGHT(kg)	CODE NO.
SKS-210	ST-20-SK6-100	SK6	20	100	20	0.25	3218-660
SKS-211	ST-20-SK6-150	SK6	20	150	20	0.3	3218-661
SKS-212	ST-20-SK10-100	SK10	28	100	20	0.3	3218-662
SKS-213	ST-20-SK10-150	SK10	28	150	20	0.45	3218-663
SKS-214	ST-20-SK10-200	SK10	28	200	20	0.55	3218-664

# Set Of SK Collet And Straight Chuck

JIS STD. 15000 R.P.M.  
AA



## SK COLLET SET

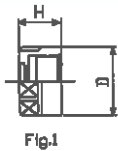
### METRIC RANGE SET SIZE

SK06/5pcs : Ø2, 3, 4, 5, 6

SK10/8pcs : Ø3, 4, 5, 6, 7, 8, 9, 10

ORDER NO.	ST TYPE	COLLET	SET RANGE	COLLET SET	WEIGHT (kg)	CODE NO.
SKS-231	ST-20-SK6-100	SK6	2-6	5	0.7	3218-670
SKS-232	ST-20-SK6-150	SK6	2-6	5	0.8	3218-671
SKS-233	ST-20-SK10-100	SK10	3-10	8	1.1	3218-672
SKS-234	ST-20-SK10-150	SK10	3-10	8	1.3	3218-673

# SK Nut And Wrench

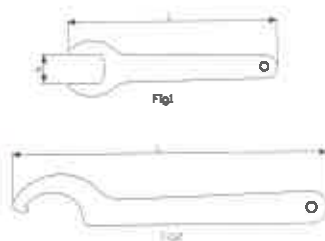


## SK NUT

ORDER NO.	FIG	COLLET TYPE	D	H	WEIGHT (kg)	CODE NO.
SKN-601	1	SK06	19.5	15	0.05	3218-880
SKN-101	1	SK10	28	17	0.05	3218-881
SKN-161	2	SK16	40	24	0.08	3218-882
SKN-201	2	SK20	50	25	0.1	3218-883
SKN-251	2	SK25	55	30	0.12	3218-884

## SK WRENCH

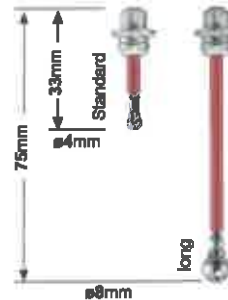
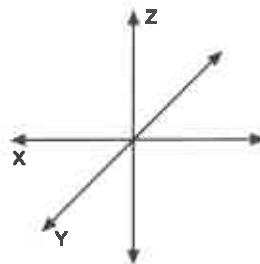
ORDER NO.	FIG	COLLET TYPE	A	L	WEIGHT (kg)	CODE NO.
SKW-601	1	SK06	18	130	0.08	3218-690
SKW-101	1	SK10	25	140	0.08	3218-691
SKW-161	2	SK16	X	195	0.2	3218-692
SKW-201	2	SK20	X	228	0.22	3218-693
SKW-251	2	SK25	X	228	0.22	3218-694





Find your exact zero points in all three axes in seconds with the new distance measuring scale (graduated and analogue).

- Black scale for radial deflection.
- Red scale for axial deflection
- Precise and effortless caliper of fixtures and workpiece edges.
- Setting of NC-programme zero points in seconds.
- Measuring of clamped workpieces.
- Generous overrun allowances prevent damage to Taster stylus.
- Easy and precise change of stylus.
- Weight: 0.93 KGS



## STYLUS

Change stylus in seconds

No screws or special tools required

Easy precision plug-in mechanism

ORDER NO.	TYPE	WEIGHT	CODE NO.
V-3D-05	ø4x33 standard stylus	10g	3219-005
V-3D-06	ø8x75 long stylus	15g	3219-006

TYPE	ACCURACY
3D-Taster	0.01mm



# KNT Type Keyless Drill Chucks

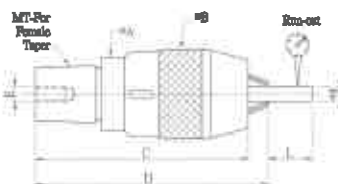
This chuck for CNC keyless drill chuck holders, built by the highest engineering standard.

- Integrated drill chuck and holder once lock with a pull stud, the chuck will never come off.
- Special design ensures high rigidity.
- High service reliability.
- Easy to operate, long service life.
- 100% test and strict quality control assure the highest accuracy.



## ACCURACY

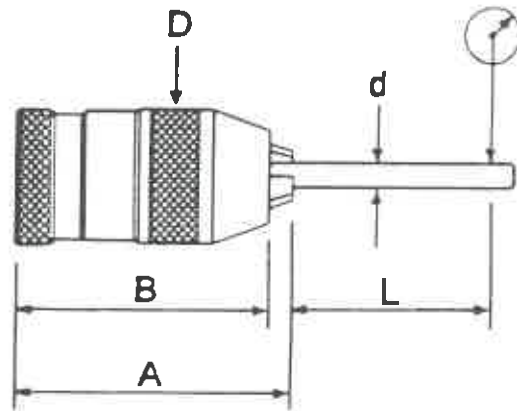
ITEM NO.	Ød mm	L mm	Max Run-out mm	Torque kgf-cm
KNT-8	3	35	0.05	160
	6			
	8			
KNT-13	5	55	0.05	320
	10			
	13			
KNT-16	5	55	0.05	480
	10			
	16			



ORDER NO.	Clamping Capacity	For Female Taper	ØA	ØB	C	D	E	kg	QTY Pcs/Cu-Ft	NW/GW Kgs	CODE NO.
KNT-8	0.5-8	MT2	30	35	82.5	90	M6x1.0	0.3	40/0.6	15/16	3033-600
KNT-13	0.5-13	MT2	30	56	76	101	M8x1.25	1	30/0.6	30/31	3033-601
					106	118					3033-601A
KNT-16	3-16	MT3	43	56	115	128	M8x1.25	1.3	18/0.6	24/25	3033-602

# Integrated Type Keyless Drill Chucks

## CAT-TYPE

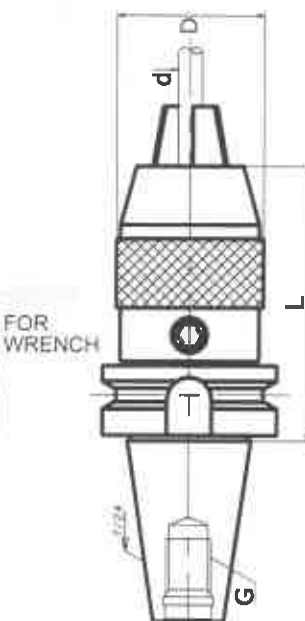


ORDER NO.	Clamping Capacity		Taper	OUTER Ø / mm	WEIGHT (kgs)	CODE NO.	ACCURACY				
	mm	Inch					ITEM NO.	d mm	L mm	Max Tolerance mm	Torque kgf-cm
INT-8-CAT30	0.5-8	1/64"-1/8"	CAT30	Ø35	0.8	3301-073	INT-8	3	25	0.05	160
INT-13-CAT30	0.5-13	1/64"-1/2"		Ø51.5	1	3301-074		6			
						8					
INT-8-CAT40	0.5-8	1/64"-1/8"	CAT40	Ø35	1.32	3301-075	INT-10	3	25	0.05	260
INT-13-CAT40	0.5-13	1/64"-1/2"		Ø51.5	2.1	3301-076		6			
								10			
INT-16-CAT40	3-16	1/8"-5/8"	CAT50	Ø58	2.26	3301-077	INT-13	5	30	0.05	400
INT-13-CAT50	0.5-13	1/64"-1/2"		Ø51.5	3.95	3301-078		10			
								13			
INT-16-CAT50	3-16	1/8"-5/8"		Ø58	4.2	3301-079	INT-16	5	25	0.05	480
								10			
								16			

KEYLESS DRILL CHUCK

# Integrated Type Keyless Drill Chucks

RL type keyless drill chuck with BT SHANK  
SK SHANK  
NT SHANK



- RL type drill has reinforce torque design to increase more clamping capacity.
- Right turn and left turn allowable.
- No sudden drop when stop or suddenly shift to different direction.
- Highest speed 6000rpm.
- Shorten the shank length which is stronger than traditional design improves the total rigidity.

ORDER NO.	Clamping Capacity mm / d	L	D	G	CODE NO.
BT40-VRL13	0.5-13	95	50	M16	3301-090
BT40-VRL16	3-16	113	57	M16	3301-091
SK40-VRL13	0.5-13	85	50	M16	3301-092
SK40-VRL16	3-16	95	57	M16	3301-093
NT40-VRL13	0.5-13	112	50	5/8"-11unc	3301-094
NT40-VRL16	3-16	120	57	M16	3301-095



FOR SPECIFICATION PLEASE SEE P.C76

The main-shafts is of integrated type, which is much more superior than the traditional design. The major features are as follows:

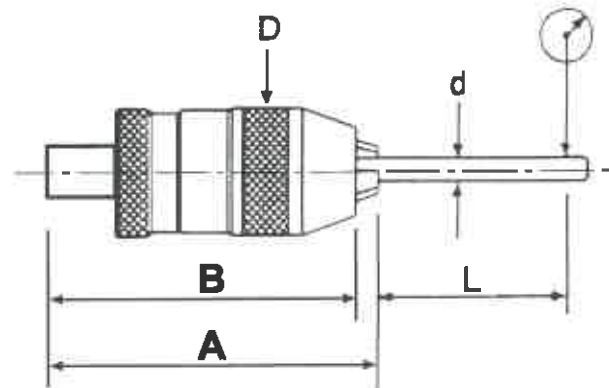
- Extremely rigid construction. Accuracy is same as page C66
- The accumulative tolerances can be reduced to a minimum, since the traditional mechanism requiring an ARBOR to connect the Drill Chucks which will generate the accumulative tolerances. The Integrated type Keyless Drill Chuck is designed to solve this problem totally.
- Prevent the Drill Chucks from falling out.
- Extremely safe in operation.



STANDARD ACCES.

### ACCURACY

ITEM NO.	d mm	L mm	Max Tolerance mm	Torque kgf-cm
INT-8	3	25	0.05	160
	6			
	8			
INT-10	3	25	0.05	260
	6			
	10			
INT-13	5	30	0.05	400
	10			
	13			
INT-16	5	25	0.05	480
	10			
	16			



# Integrated Type Keyless Drill Chucks

ORDER NO.	Clamping Capacity		Female Taper DIN or Jacobs	OUTER Ø / mm	Length		WEIGHT (kgs)	CODE NO.
	Ø mm	Ø Inch			Open B mm	Closed A mm		
INT-8-MT-2	0.5-8	0-5/16"	MT-2	36	150	157	0.8	3301-030
INT-8-JC-20	0.5-8	0-5/16"	JC-20	36	134	141	0.8	3301-031
INT-8-BT30	0.5-8	1/64"-1/8"	BT30	36	78	85	1	3301-070
INT-8-BT40	0.5-8	1/64"-1/8"	BT40	36	77	86	1.5	3301-072
INT-8-NT30	0.5-8	1/64"-1/8"	NT30	36	67	75	0.8	3301-080
INT-8-NT40	0.5-8	1/64"-1/8"	NT40	36	66	74	1.3	3301-081
INT-8-SK40	0.5-8		SK-40	36	81	87	1.4	3301-083
INT-13-R8	1-13	1/64"-1/2"	R8	50	196	205	1.5	3301-032
INT-13-MT2	1-13	0-1/2"	MT-2	50	172	184	1.3	3301-082
INT-13-MT3	1-13	0-1/2"	MT-3	50	190	201	1.4	3301-033
INT-13-MT4	1-13	0-1/2"	MT-4	50	216	227	1.8	3301-034
INT-13-JC-20	1-13	0-1/2"	JC-20	50	153	164	1.4	3301-035
INT-13-JC-25	1-13	0-1/2"	JC-25	50	163	174	1.6	3301-036
INT-13-JC-32	1-13	0-1/2"	JC-32	50	173	185	1.8	3301-037
INT-13-NT30	1-13	0-1/2"	NT-30	50	86	99	1.4	3301-038
INT-13-NT40	1-13	0-1/2"	NT-40	50	85	96	1.8	3301-039
INT-13-BT30	1-13	1/64"-1/2"	BT30	50	96	108	1.4	3301-071
INT-13-BT40	1-13	0-1/2"	BT-40	50	100	111	2	3301-040
INT-13-BT50	1-13	0-1/2"	BT-50	50	106	117	4.7	3301-041
INT-13-NT50	1-13	0-1/2"	NT-50	50	100	112	4.3	3301-059
INT-13-SK30	1-13		SK-30	50	99	111	1.34	3301-084
INT-13-SK40	1-13		SK-40	50	100	113	1.9	3301-085
INT-13-SK50	1-13		SK-50	50	93	106	3.9	3301-087
INT-16-R8	3-16	1/8"-5/8"	R8	57	198	211	1.9	3301-042
INT-16-MT3	3-16	1/8"-5/8"	MT3	57	194	207	1.9	3301-043
INT-16-MT4	3-16	1/8"-5/8"	MT4	57	219	232	2	3301-044
INT-16-JC-20	3-16	1/8"-5/8"	JC-20	57	152	165	1.8	3301-045
INT-16-JC-25	3-16	1/8"-5/8"	JC-25	57	162	178	1.7	3301-046
INT-16-JC-32	3-16	1/8"-5/8"	JC-32	57	184	179	2.2	3301-047
INT-16-NT40	3-16	1/8"-5/8"	NT-40	57	113	126	2.6	3301-049
INT-16-BT40	3-16	1/8"-5/8"	BT-40	57	113	127	2.5	3301-050
INT-16-BT50	3-16	1/8"-5/8"	BT-50	57	111	124	5	3301-051
INT-16-NT50	3-16	1/8"-5/8"	NT-50	57	104	117	4.5	3301-056
INT-16-SK40	3-16	1/8"-5/8"	SK-40	57	127	141	2.4	3301-057
INT-16-SK50	3-16	1/8"-5/8"	SK-50	57	97	110	3.9	3301-058

KEYLESS DRILL CHUCK

ORDER NO.	SIZE DIN 69871A	Clamping range (Ømm)	D	L		WEIGHT (kg)	CODE NO.
				Minimum	Maximum		
INT-8-SK40	SK40-APU08	0.5-8	35.6	81	87	1.4	3301-001
INT-13-SK40	SK40-APU13	1-13	52	100	113	1.9	3301-002
INT-13-SK50	SK50-APU13	1-13	52	93	106	3.9	3301-004
INT-13-SK30	SK30-APU13	1-13	52	99	111	1.34	3301-006
INT-16-SK40	SK40-APU16	3-16	56.8	127	140	2.4	3301-007
INT-16-SK50	SK50-APU16	3-16	56.8	97	110	3.9	3301-008

ORDER NO.	Clamping Capacity		Taper	OUTER Ø / mm	WEIGHT (kgs)	CODE NO.
	mm	Inch				
INT-8-CAT30	0.5-8	1/64"-1/8"	CAT30	Ø36	0.8	3301-073
INT-13-CAT30	0.5-13	1/64"-1/2"		Ø50	1	3301-074
INT-8-CAT40	0.5-8	1/64"-1/8"		Ø36	1.32	3301-075
INT-13-CAT40	0.5-13	1/64"-1/2"	CAT40	Ø50	2.1	3301-076
INT-16-CAT40	3-16	1/8"-5/8"		Ø57	2.26	3301-077
INT-13-CAT50	0.5-13	1/64"-1/2"	CAT50	Ø50	3.95	3301-078
INT-16-CAT50	3-16	1/8"-5/8"		Ø57	4.2	3301-079

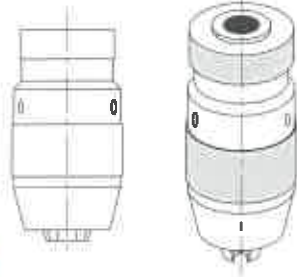


# Keyless Drill Chucks



TYPE: XHSP

SPECIAL HEAVY DUTY TYPE



- Special design & manufacture against for super heavy torque(Clamping capacity) use.
- Owing to inspecting strictly & with excellent RUNOUT Accuracy and quality guaranteed the gripping power is double than the general brand.
- Avoid the drill dropped when used in instantaneous change of direction and equipped with spanner hole for tightening perfect safety.
- Especially suitable for CNC machining center & milling machine use.
- Accuracy: 50 mm length within 0.05 mm
- The key is optional

OPTIONAL ACCES.

Unit:mm

ORDER NO.	TYPE	Clamping Capacity		Female Taper DIN or Jacobs	OUTER Ø / mm	Length		Wt g	QTY Pcs./ Cu-Ft	N.W/G.W kgs	CODE NO.
		Ø mm	Ø inch			Open B mm	Closed A mm				
11015	8XHSP	0.5-8	0-5 / 16"	B10	34.3	64.8	72.7	320	40/0.6	13/14	3302-002
11016				J1	34.3	64.8	72.7	320	40/0.6	13/14	3302-003
11017				B12	34.3	64.8	72.7	320	40/0.6	13/14	3302-004
11018	10XHSP	1-10	0-3 / 8"	J33	42.4	80.8	91.1	700	40/0.6	28/29	3302-005
11019				J2S	42.4	80.8	91.1	700	40/0.6	28/29	3302-006
11020				B12	42.4	80.8	91.1	700	40/0.6	28/29	3302-007
11021				B16	42.4	80.8	91.1	700	40/0.6	28/29	3302-008
11025	13XHSP	1-13	0-1 / 2"	J6	50.3	93.7	105.3	1030	30/0.6	31/32	3302-009
11026				J33	50.3	93.7	105.3	1035	30/0.6	31/32	3302-010
11027				B16	50.3	93.7	105.3	1030	30/0.6	31/32	3302-011
11028	16XHSP	3-16	1/8 - 5/8"	J6	52	97	110.3	1450	24/0.6	35/36	3302-012
11029				B16	52	96.1	110.3	1450	24/0.6	35/36	3302-013
11030				B18	52	97	110.4	1450	24/0.6	35/36	3302-014
11035				J3	52	100.5	105.3	1450	24/0.6	35/36	3302-015
17000	6XHSP	0.5-6.5	1/64" - 1/4"	B12	34	64.8	72.7	320	40/0.6	13/14	3304-010
17002				J1	34	64.8	72.7	320	40/0.6	13/14	3304-011
17004				B10	34	64.8	72.7	320	40/0.6	13/14	3304-012
11031	Key	13XHSP		OPTIONAL ACCES.							3304-001
11032		16XHSP									3304-002
11033		8XHSP									3304-003
11034		10XHSP									3304-004



# Keyless Drill Chucks

TYPE: H

STANDARD TYPE



Unit:mm

ORDER NO.	TYPE	Clamping Capacity		Female Taper DIN or Jacobs	OUTER Ø mm	Length		Wt g	CODE NO.
		Ø mm	Ø inch			Open B mm	Closed A mm		
11061	6H	0-6.5	0-1 / 4"	J1	34	64.8	72.7	410	3302-030
11062				B10	34	64.8	72.7	400	3302-031
11063	8H	0.5-8	0-5 / 16"	J1	34	64.8	72.7	400	3302-032
11064				B10	34	64.8	72.7	400	3302-033
11065	10H	1-10	0-3 / 8"	J2S	42.5	80.8	91.1	720	3302-034
11066				J33	42.5	80.8	91.1	700	3302-035
11067				B12	42.5	80.8	91.1	720	3302-036
11068				B16	42.5	80.8	91.1	700	3302-037
11070	13H	1-13	0-1 / 2"	J6	50.5	93.7	105.3	1070	3302-039
11071				J33	50.5	93.7	105.3	1035	3302-040
11072	16H	3-16	1/8 - 5/8"	B16	50.5	93.7	105.3	1080	3302-041
11073				J6	50.5	93.7	105.8	1070	3302-042
11074				B16	50.5	93.8	105.9	1080	3302-043
11075				B18	50.5	97.7	110	1090	3302-044

- Industrial design especially for life and safety while in operation.
- All hardened parts ensure long term for milling machines and drilling.
- Accuracy: 35 m/m length within 0.08 m/m

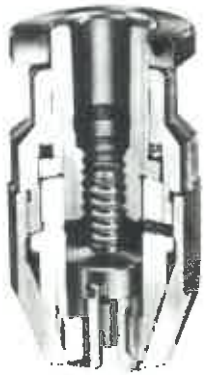
# Keyless Drill Chucks



TYPE:S

HEAVY DUTY TYPE S

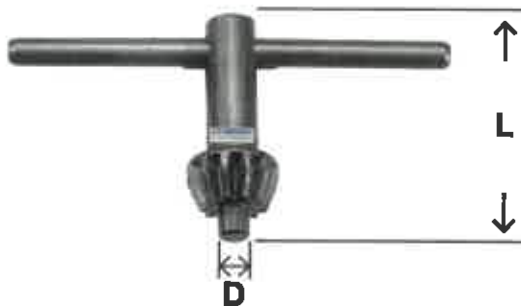
Extremely high accuracy and precision design, suitable for CNC machines and machine center. All parts are ground, heat treated, surface treated and under specific QC condition.



ORDER NO.	Size	Capacity		Taper Mount No DIN or Jacobs	Length(m/m)		Outer Dia (m/m)	Weight (g)	CODE NO.
		mm	Inch		Open	Closed			
12201-1	8S	0.5-8	0-5/16	JT1	68	76	38	460	3302-060
12201-2				JT2S	68	76	38	450	3302-061
12201-3				B10	68	76	38	420	3302-062
12201-4				B12	68	76	38	450	3302-063
12202-1	10S	1-10	0-3/8	JT2	80	92	43	660	3302-064
12202-2				JT33	80	92	43	630	3302-065
12202-3				B10	80	92	43	640	3302-066
12202-4				B12	80	92	43	670	3302-067
12203-1	13S	1-13	0-1/2	JT33	90	102	49	970	3302-068
12203-2				JT6	90	102	49	1020	3302-069
12203-3				B12	90	102	49	1040	3302-070
12203-4				B16	90	102	49	1030	3302-071
12205-1	16S	3-16	1/8-5/8	JT6	97	110	55	1330	3302-073
12205-2				JT3	97	110	55	1330	3302-074
12205-3				B16	97	110	55	1340	3302-075
12205-4				B18	97	110	55	1360	3302-076

KEYLESS DRILL CHUCK

## Keys Steel



ORDER NO.	Type	Dmm	Lmm	Weight(g)	Packing	CODE NO.
14001	T1	3.2	35	20	Plastic Bag	3304-100
14002	T2	4	42	40		3304-101
14003	T3	5.5	44	45		3304-102
14004	T4	6	45	55		3304-103
14005	T5	6.5	45	50		3304-104
14007	T7	8	50	80		3304-106
14008	T8	9.5	65	150		3304-107
14009	T9	11	100	320		3304-108

## Note

CAUTIONS



- CAUTIONS:
- ※ DONOT USE END MILL WITH DRILL CHUCK
  - DRILL CHUCK ONLY CAN PROCESS VERTICAL JOB.
  - ADD COOLANT WHILE HEAVY CUTTING.
  - ※ WHILE PROCESSING:
    - DO NOT MAKE HORIZONTAL MOVEMENT OR ELSE, IT WILL CAUSE 3 JAWS' DEFORMATION.
    - NOT FOR END MILL.



# Key Type Drill Chucks



TYPE: G

HIGH PRECISION



- Remarkable products, super precision durable & rigity
- Big outside diameter suit for heavy duty
- The nut and jaws adopt AISI-52100 (bearing steel) and heat-treated, durability
- Precision can be assured.
- The taper is precision ground.
- Accuracy: 90mm length within 0.08 mm
- With keys

ORDER NO.	TYPE	Clamping Capacity		Female Taper DIN or Jacobs	OUTER Ø / mm	Length		Wt g	Key Size	QTY Pcs./ Cu-Ft	N.W/G.W kgs	CODE NO.
		mm	Inch			Open B mm	Closed A mm					
10006	G-6H	0.5-6.5	1/64"-1/4"	J1	32	41	50	200	T2	100/0.82	20/21	3303-001
10050	G-13XH	0.5-13	1/64"-1/2"	J6	56	70.5	88	800	P6	36/0.83	30/31	3303-006
10051				B16	56	70.5	88	800	P6	36/0.83	30/31	3303-007
10052				J33	56	70.5	88	800	P6	36/0.83	30/31	3303-008
10068	G-16XH	1-16	1/32"-5/8"	J3	65	81	101	1000	P7	24/0.84	24/25	3303-009
10070				B18	65	81	101	1000	P7	24/0.84	24/25	3303-010
10074	G-19XH	3-19	1/8"-3/4"	J4	74	99.5	126	2150	P7	18/0.83	39/40	3303-011



# Ball Bearing Key Type Super Chucks

TYPE: H



- Suitable for heavy duty drilling use.
- By using anti-thrust bearing to increase the gripping power so that high speed drilling can be performed.
- All parts hardened by heat treatment and precision ground.
- Precision can be assured, super clamping power.
- Accuracy: 100 mm length is within 0.08 mm
- With keys

ORDER NO.	TYPE	Clamping Capacity		Female Taper DIN or Jacobs	OUTER Ø / mm	Length		Wt g	Key Size	CODE NO.
		mm	Inch			Open B mm	Closed A mm			
12006	13BXH	1-13	1/32"-1/2"	J3	62	75	95	1200	P6	3303-031
12001				J6						3303-032
12002				J33						3303-033
12003	16BXH	1-16	1/32"-5/8"	J3	65	81	101	1500	P7	3303-034
12005	19BXH	1-19	1/32"-3/4"	J4	74	100	130	2150	P7	3303-036



- Suitable for heavy duty & extra heavy duty.
- For milling machine, lathe, drill machine & wood working machine.
- With keys

DRILL CHUCK

ORDER NO.	TYPE	Clamping Capacity		Female Taper DIN or Jacobs	Female Thread Inch or metric	OUTER Ø / mm	Length		Wt g	Key Size	CODE NO.
		mm	Inch				Open B mm	Closed A mm			
10001	4H	0.5-4	1/64"-5/32"	JO		22	29	35	120	T1	3303-060
10003	6H	0.5-6.5	1/64"-1/4"	J1		32	40	50	230	T2	3303-062
10004				B10		32	40	50	190	T2	3303-063
10010	10H	1-10	1/32"-3/8"	J2		38	50.5	64	320	T3	3303-065
10011				J2S		38	50.5	64	320	T3	3303-066
10012				B12		38	50.5	64	330	T3	3303-067
10038	13H	1-13	1/32"-1/2"	J2S		47	65	81	520	T5	3303-071
10038-2					3/8-24	47	65	81	520	T5	3303-071-2
10038-3					1/2-20	47	65	81	330	T5	3303-071-3
10039				J6		47	65	81	570	T5	3303-072
10040				B16		47	65	81	580	T5	3303-073
10041				J33		47	65	81	580	T5	3303-074
10061	16H	1-16	1/32"-5/8"	J6		56	78	96	990	T7	3303-077
10062				J3		56	78	96	960	T7	3303-078
10063				B16		56	78	96	990	T7	3303-079
10064				B18		56	78	96	970	T7	3303-080
10072	19H	3-19	1/8"-3/4"	B22		67.5	89	126	1660	T8	3303-083
10073				J3		67.5	89	126	1680	T8	3303-084
10046	13XH	1-13	1/32"-1/2"	J6	1/2-20	52	69	82	770	T7	3303-086
10079	19XH	1-19		J4		69	94	132	1720	T8	3303-089

**Material Analysis Table**

PART NO.	PART NAME	MATERIAL	HEAT TREATED
1	Body	JIS-4051 SAE 1045	HRC45-48
2	Case	JIS-4018 SAE 1018	HRC38-40
3	Jaw	JIS-4051 SAE 1045	HRC52±2
4	Nut	JIS-4051 SAE 1045	HRC61±2

**Run-out Accuracy & Torque Inspection Table**

Type	4H	5H	6.5H	10H	13H	16H	19H	13XH	19XH
Ødmm	3.5	4.5	6	9	12	15	18	12	18
Lmm	60	80	90	110	140	150	150	140	150
L1mm	40	60	70	85	110	120	120	110	120
Max Run-out	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Torque kg-m	18	20	45	75	85	250	300	190	300

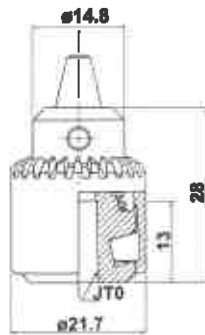


# Key Type Drill Chucks Stainless



TAPER & THREAD MOUNT

NEW



ORDER NO. 10090

Enlarged photo

### FEATURES:

- Stainless - Anti - Rust
- Good Resistance - Acid Resistance
- Smooth operation
- Suit for EDM, Food, marine industry.

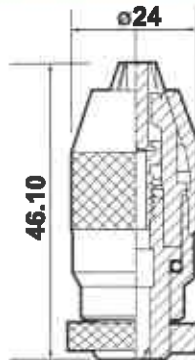
ORDER NO.	TYPE	Clamping Capacity		Female Taper DIN or Jacobs	OUTER Ø / mm	Length		Pitch	Wt g	Key Size	CODE NO.
		mm	Inch			Open B mm	Closed A mm				
10090	4KST	0.3-4	1/64-5/32	JT0	22	28	35	5/16"-24	50	T0-3S	3303-100
10091	6KST	0.3-6.5	1/64-1/4	JT1	28.5	40.5	49	3/8"-24	125	T1-3S	3303-101
10092-1	10KST	0.3-10	1/64-3/8	JT2S	39	51	63	3/8"-24	250	T2-3S	3303-102
10092-2				ØD13	37	57	69		250		3303-103
10092-3				ØD15	37	57	69		250		3303-104



# Keyless Drill Chucks Stainless

KEYLESS TAPER & THREAD MOUNT

NEW



ORDER NO. 16001-31

### FEATURES:

- Stainless - Anti - Rust
- Good Resistance - Acid Resistance
- Smooth operation
- Suit for EDM, Food, marine industry.

Enlarged photo

ORDER NO.	Size	Capacity		Taper Mount No DIN or Jacobs	Length (m/m)		Outer Dia (m/m)	Weight (g)	CODE NO.
		mm	inch		Open	Closed			
16001-30	3ST	0.3-3	1/64-1/8	JT0	44	50	30	110	3303-111
16001-31				JT1	44	48.5	24	110	3303-112
16001-61	6ST	0.3-6.5	1/64-1/4	JT1	62	68	33	300	3303-113

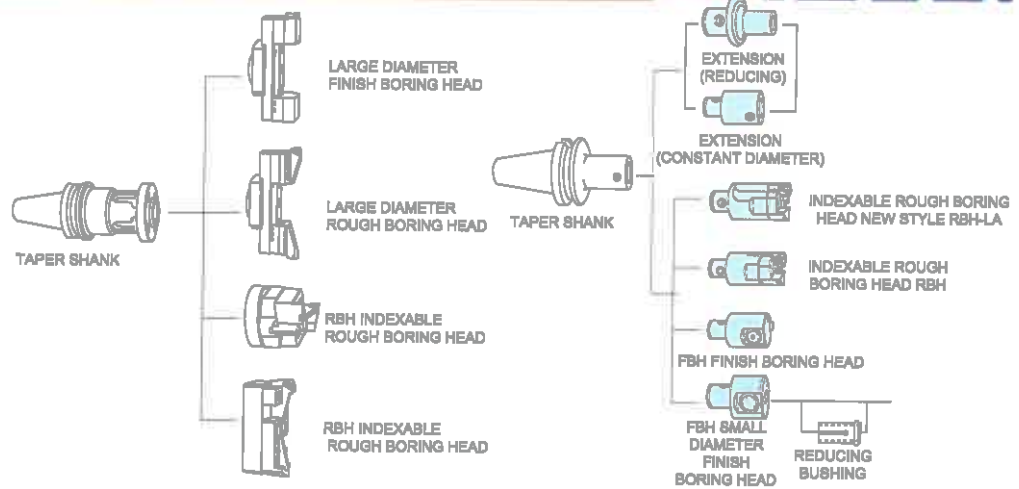


# Keys For Stainless Key Type Drill Chuck

NEW



ORDER NO.	Type	Dmm	Lmm	Weight(g)	Packing	CODE NO.
15001	T0-3S	3.2	60	16		3303-121
15002	T1-3S	4.0	65	40		3303-122
15003	T2-3S	5.5	71	45		3303-123



## Taper Shank For Boring Heads Series BS70,100,200,300,400 Taper Shank For Boring Heads Series B1070~B6230

BORING SYSTEM

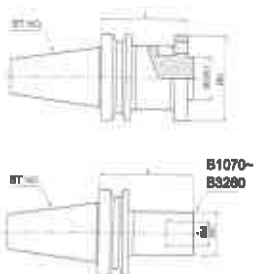
### BS70~400 SERIES



### B1070~6230 SERIES



ORDER NO.	Length (L)	External Diameter (D)	Applicable Boring Heads	Weight (kgs)	CODE NO.
VT-BT30-B1070	70	19	FBB20	0.5	3320-214
VT-BT30-B2080	80	24	VRB25 ; FBB25	0.6	3320-215
VT-BT30-B3080	80	31	VRB32 ; FBB32	0.7	3320-216
VT-BT30-B4070	70	39	VRB40 ; FBB40 ; FBB44	0.8	3320-217
VT-BT30-B5060	60	50	VRB52 ; FBB52 ; FBB55	0.8	3320-218
VT-BT30-B6060	60	64	VRB68 ; VRB90 ; FBB68 FBB100 ; FBB150 ; FBB66	1.0	3320-219
VT-BT40-B1075	75	19	FBB20	1.2	3320-220
VT-BT40-B2085	85	23	VRB25 ; FBB25	1.2	3320-221
VT-BT40-B3095	95	30	VRB32 ; FBB32	1.45	3320-222
VT-BT40-B4085	85	38	VRB40 ; FBB40 ; FBB44	1.5	3320-223
VT-BT40-B5075	75	50	VRB52 ; FBB52 ; FBB55	1.8	3320-225
VT-BT40-B6065	65	64	VRB68 ; VRB90 ; FBB68 FBB100 ; FBB150 ; FBB66	2.15	3320-227
VT-BT40-BS70	70	95	VRB120 ; FBB200 VRB120 and above; FBB200 and above	3.2	3320-228
VT-BT50-B1115	115	19	FBB20	3.5	3320-229
VT-BT50-B2110	110	23	VRB25 ; FBB25	4	3320-230
VT-BT50-B3125	125	30	VRB32; FBB32	4.4	3320-232
VT-BT50-B4115	115	38	VRB40; FBB40; FBB44	4.8	3320-234
VT-BT50-B4175	175			5.2	3320-235
VT-BT50-B5105	105	50	VRB52; FBB52; FBB55	5.4	3320-236
VT-BT50-B5180	180			6.2	3320-237
VT-BT50-B5240	240			6.4	3320-238
VT-BT50-B6095	95	64	VRB68 ; VRB90 ; FBB68 FBB100 ; FBB150 ; FBB66	5.9	3320-239
VT-BT50-B6170	170			6.5	3320-240
VT-BT50-B6230	230			6.9	3320-241
VT-BT50-BS100	100	95	VRB120 VRB120 and above; VRB200 - 500; large diameter boring heads series FBB200-500	5.71	3320-242
VT-BT50-BS200	200			8.79	3320-244
VT-BT50-BS300	300			11.25	3320-246
VT-BT50-BS400	400			19.3	3320-247





# Large Diameter 2 Inserts Rough Boring

Modular Style For Diameter Over 200 mm  
Boring  $\phi$ D range from  $\phi$ 200- $\phi$ 1,250 mm



- ※Insert Not Included
- ※RB200C12 / RB200T16 / RB200T22 / RB200S12  
ARE FOR VRB200 ~ VRB900
- ※Arbor Is not included

Boring Head Type	ORDER NO.	VRB200	VRB300	VRB400	VRB500	VRB600	VRB900
	Length	130	130	130	130	150	150
	(kgs) Total Weight Steel/Alloy	9.5	11.5	13.5	15.5	33	43
	D(mm) Boring Diameter Range	200-310	300-410	400-510	500-610	600-900	900-1200
Module	Taper Shank	BT50-BS				BT50-FMA-47.625	
	Flange (kgs)Weight Steel/Alloy	BR200 2.7				BR600 8.8kg	BR900 13.5kg
	Extension Slide (kg)Weight Steel/Alloy	RST200 3.4 kg	RST300 5.4 kg	RST400 7.4 kg	RST500 9.4 kg	RST300 x2pcs 10.8 kg	RST400 x2pcs 14.8 kg
	Clamp Base (kg)Weight	RS200 0.98 kg					
	Height Setting Shlm (kg)Weight	RS201 0.05 kg					
	Insert Holder	RB200C12		RB200T16	RB200T22		RB200S12
	Applicable Insert (kg)Weight	CCMT120404		TCMT16T304	TCMT220404		SCMT120404 0.68 kg
	CODE NO.	3320-250	3320-251	3320-252	3320-253	3320-254	3320-255






# Enlargeable Finish Boring Head

Modular Style For Diameter Over 200 mm  
Boring  $\phi D$  from  $\phi 200$ - $\phi 1,250$  mm



✳ Arbor is not Included

BORING SYSTEM

Boring Head Type	ORDER NO.	VFB200	VFB300	VFB400	VFB500	VFB600	VFB900	
	Length	130	130	130	130	150	150	
	(kgs) Total Weight Steel/Alloy	7	7.8	8.6	9.4	15.8	22.1	
	D(mm) Boring Diameter	200-310	300-410	400-510	500-610	600-900	900-1200	
Module	Taper Shank		BT50-BS				BT50-FMA-47.625	
	Flange (kg)Weight Steel/Alloy		BR200 2.7 kg				BR600 8.8kg	BR900 13.5kg
	Extension Slide		RST200	RST300	RST400	RST500	RST300 x2pcs	RST400 x2pcs
	(kgs)Weight		1.1 kg	1.9 kg	2.7 kg	3.5 kg	3.8 kg	5.4 kg
	Balance Weight (kg)Weight		RBN200 1.6 kg					
	Finish Head (kgs)Weight		CB200 1.6 kg					
	Applicable Insert		TP08/ $\phi 3.2$ xM2/T8, TP09/M2.5/T8, TC11/M2.5/T8					
	CODE NO.		3320-260	3320-261	3320-262	3320-263	3320-264	3320-265



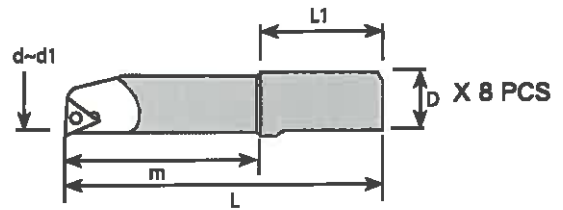


# Insert Type Boring Bar

ORDER NO. BBAR-D16 CODE NO.6004-071



\*All inserts are floating price.  
Contact us before ordering from F1~F49



## BORING BAR FOR BORING HEAD

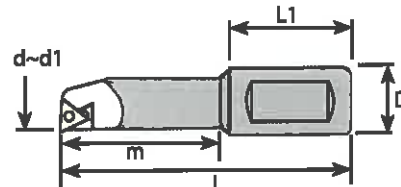
8 PCS/SET

BORING BAR	SHANK D.	RANGE d~d1	DEPTH m	L1	SHANK L. L	INSERT	FIXING UNIT	WRENCH	WEIGHT (kg)
BRB1608-32	16	8-11	32	32	80	TBGT060102L	TS2001	T6	2
BRB1610-40	16	10-13	40	32	80	TPGH090204L	TS2504	T8	
BRB1612-53	16	12-15	53	32	85				
BRB1616-68	16	16-21	68	32	100	TPGH110304L	TS3005	T10	
BRB1620-83	16	20-26	83	32	115				
BRB1625-90	16	25-31	90	32	122				
BRB1630-90	16	30-36	90	32	122				
BRB1640-90	16	40-46	90	32	122				



# Insert Type Boring Bar

ORDER NO. BBAR-D18 CODE NO.6004-072A



X 4 PCS

## BORING BAR FOR BORING HEAD

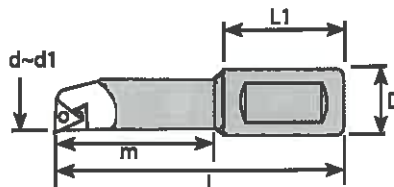
4 PCS/SET

BORING BAR	SHANK D.	RANGE d~d1	DEPTH m	L1	SHANK L. L	INSERT	FIXING UNIT	WRENCH	WEIGHT (kg)
BRB1810-40	18	10-13	40	32	80	TBGT060102L	TS2001	T6	1.0
BRB1812-53	18	12-17	53	32	88	TPGH090204L	TS2504	T8	
BRB1816-68	18	16-21	68	32	104				
BRB1820-83	18	20-130	83	32	118	TPGH110304L	TS3005	T10	

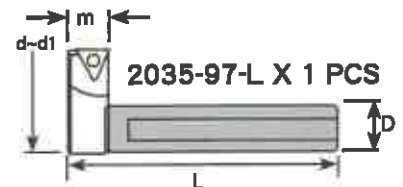


# Insert Type Boring Bar

ORDER NO. BBAR-D20 CODE NO.6004-073



X 7 PCS



2035-97-L X 1 PCS

## BORING BAR FOR BORING HEAD

8 PCS/SET

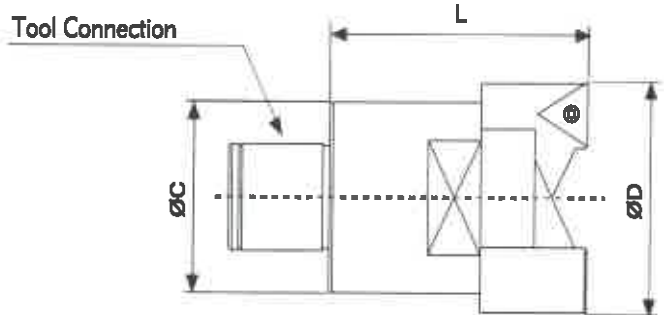
BORING BAR	SHANK D.	RANGE d~d1	DEPTH m	L1	SHANK L. L	INSERT	FIXING UNIT	WRENCH	WEIGHT (kg)
BRB2008-32	20	8-11	23	32	80	TBGT060102L	TS2001	T6	2.65
BRB2010-40	20	10-13	40	32	80	TPGH090204L	TS2504	T8	
BRB2012-53	20	12-17	53	32	85				
BRB2016-68	20	16-21	68	32	100	TPGH110304L	TS3005	T10	
BRB2020-83	20	20-130	83	32	115				
BRB2025-96	20	25-135	96	32	135				
BRB2030-115	20	30-140	115	32	154				
BRB2035-97-L	20	120-280	14		99				

# Changeable 2 Inserts Rough Boring Head VRB

VMH-SYSTEM


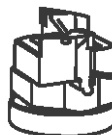

Boring diameter from  $\varnothing 25$ - $\varnothing 350$ mm

✳️Adjustable



● INSERT STYLE -C  $\diamond$   
 -T  $\blacktriangle$   
 -S  $\blacksquare$

BORING SYSTEM

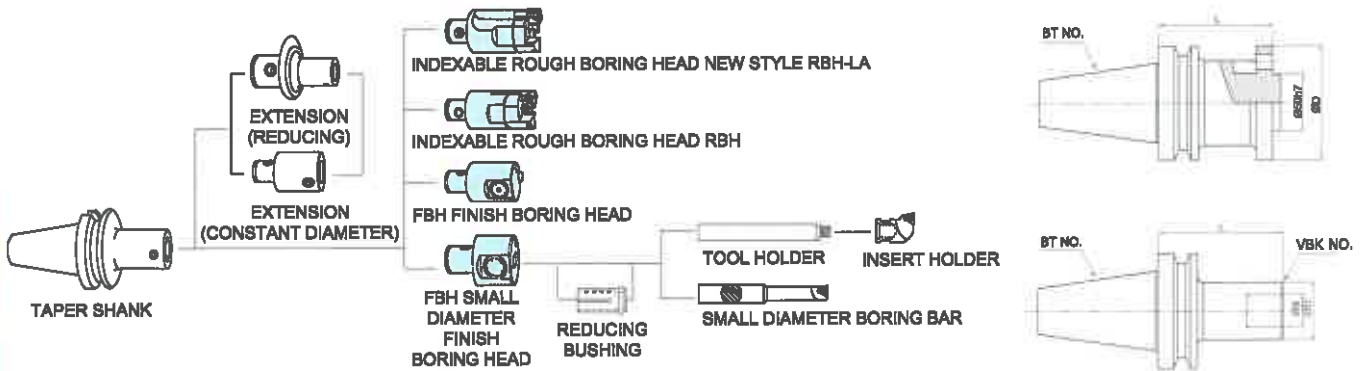
	ORDER NO.	Tool connection	D(mm) Boring Range		L (mm)	C (mm)	Insert	Weight (g)	CODE NO
	VRB25-33C	B2060	25	33	45	24	CCMT060204	0.15	3320-270
	VRB32-42C	B3080	32	42	55	31	CCMT060204	0.3	3320-271
	VRB32-42T						TCMT110204		3320-272
	VRB40-55C	B4070	40	55	65	39	CCMT09T304	0.5	3320-273
	VRB40-55T						TCMT16T304		3320-274
	VRB40-55S						SCMT09T304		3320-275
	VRB52-70C	B5060	52	70	75	50	CCMT09T304	1	3320-276
	VRB52-70T						TCMT16T304		3320-277
	VRB52-70S						SCMT09T304		3320-278
	VRB68-92C	B6065	68	92	85	64	CCMT120408	2	3320-279
	VRB68-92T						TCMT16T304		3320-280
	VRB68-92S						SCMT120404		3320-281
	VRB90-122C	B6065	90	122	100	80	CCMT120408	2.9	3320-282
	VRB90-122T						TCMT220408		3320-283
	VRB90-122S						SCMT120404		3320-284
	VRB120-164C		120	164	95	100	CCMT120408	3.8	3320-285
	VRB120-164T						TCMT220408		3320-286
	VRB120-164S						SCMT120404		3320-287
	VRB160-204C		160	204	130	130	CCMT120408	4.8	3320-288
	VRB160-204T						TCMT220408		3320-289
	VRB160-204S						SCMT120404		3320-290
	VRB200-300C	VT-BT40-BS70 VT-BT50-BS100 VT-BT50-BS200 VT-BT50-BS300 VT-BT50-BS400	200	300	95	170	CCMT120408	6.5	3320-291A
	VRB200-300T						TCMT220408		3320-292A
	VRB200-300S						SCMT120404		3320-293A
	VRB300-400C		300	400	260	260	CCMT120408	10	3320-297A
	VRB300-400T						TCMT220408		3320-298A
	VRB300-400S						SCMT120404		3320-299A



# Taper Shank For Boring Heads Series



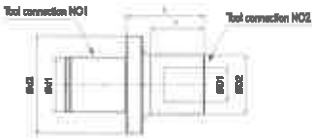
Modular Boring Systems



## Extension (Reduced)



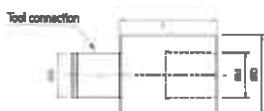
ORDER NO.	d1	d2	D1	D2	L	ℓ	Applicable Boring Heads	Weight (kg)	CODE NO.
VBQ2-1-36	14	24	11	19	36	30	FBB20	0.1	3320-301
VBQ3-1-41	18	31			41	30	FBB20	0.15	3320-302
VBQ3-2-37			14	24	37	25	VRB25 ; FBB25	0.15	3320-303
VBQ4-1-58	22	39	11	19	58	40	FBB20	0.3	3320-304
VBQ4-2-50			14	24	50	36	VRB25 ; FBB25	0.3	3320-305
VBQ4-3-50			18	31	50	37	VRB32 ; FBB32	0.35	3320-306
VBQ5-1-60	28	50	11	19	80	40	FBB20	0.45	3320-307
VBQ5-2-54			14	24	54	35	VRB25 ; FBB25	0.45	3320-308
VBQ5-2-74			18	31	74	55	VRB25 ; FBB25	0.5	3320-309
VBQ5-3-47			18	31	47	29	VRB32 ; FBB32	0.5	3320-310
VBQ5-3-72			18	31	72	54	VRB32 ; FBB32	0.6	3320-311
VBQ5-4-42			22	39	42	25	VRB40 ; FBB40	0.5	3320-312
VBQ5-4-67	22	39	67	50	VRB40 ; FBB40	0.7	3320-313		
VBQ6-1-70	36	64	11	19	70	40	FBB20	0.9	3320-314
VBQ6-2-63			14	24	63	45	VRB25 ; FBB25	0.7	3320-315
VBQ6-2-93			14	24	93	75	VRB25 ; FBB25	0.8	3320-316
VBQ6-3-56			18	31	56	39	VRB32 ; FBB32	0.75	3320-317
VBQ6-3-96			18	31	96	79	VRB32 ; FBB32	0.95	3320-318
VBQ6-4-51			22	39	51	35	VRB40 ; FBB40	0.85	3320-319
VBQ6-4-101			22	39	101	85	VRB40 ; FBB40	1.3	3320-320
VBQ6-5-41			28	50	41	25	VRB52 ; FBB52	0.85	3320-321
VBQ6-5-91			28	50	91	75	VRB52 ; FBB52	1.45	3320-322



## Extension (Constant Diameter)



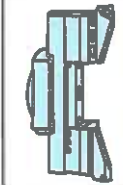
ORDER NO.	d	D	L	Applicable Boring Heads	Weight (kg)	CODE NO.
VBQ1-1-30	11	19	30	FBB20	0.07	3320-323
VBQ2-2-30	14	24	30	VRB25 ; FBB25	0.1	3320-324
VBQ3-3-30	18	31	30	VRB32 ; FBB32	0.15	3320-325
VBQ4-4-45	22	39	45	VRB40 ; FBB40 ; FBB44	0.4	3320-326
VBQ5-5-60	28	50	60	VRB52 ; FBB52 ; FBB55	0.8	3320-327
VBQ6-6-60	36	64	60	VRB68/VRB90 ; FBB68, 100, 150 ; FBB66	1.4	3320-328



# Changeable 2 Inserts Rough Boring Head VRB-L VERTEX

※Adjustable

Boring range from  $\varnothing 25\text{mm}$  to  $\varnothing 1250\text{mm}$ ;  
a variety of tool holders and boring heads are for your selection.

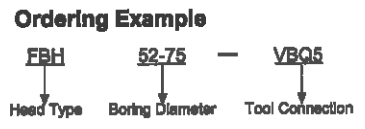
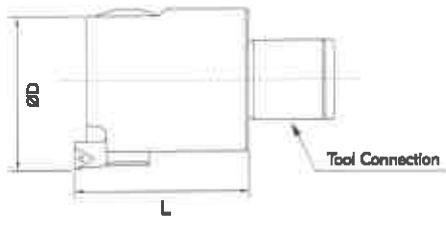


ORDER NO.	Tool connection	D(mm) Boring Range	L (mm)	C (mm)	Insert	Weight (g)	CODE NO.
VRB25-35LC	B2080	25~35	50	24	CCMT060204	0.15	3320-340
VRB32-45LC	B3080	32~45	60	31	CCMT060204	0.3	3320-341
VRB32-45LT					TCMT110204		3320-342
VRB40-55LC	B4070	40~55	74	39	CCMT09T304	0.6	3320-343
VRB40-55LT					TCMT16T304		3320-344
VRB40-55LS					SCMT09T304		3320-345
VRB52-75LC	B5060	52~75	80	50	CCMT09T304	1	3320-346
VRB52-75LT					TCMT16T304		3320-347
VRB52-75LS					SCMT09T304		3320-348
VRB68-100LC	B6065	68~100	90	66	CCMT120408	2.5	3320-349
VRB68-100LT					TCMT16T304		3320-350
VRB68-100LS					SCMT120404		3320-351
VRB90-130LC	B6065	90~130	100	88	CCMT120408	3.1	3320-352
VRB90-130LT					TCMT16T304		3320-353
VRB90-130LS					SCMT120404		3320-354
VRB120-164LC		120~164	95	100	CCMT120408	3.8	3320-355
VRB120-164LT					TCMT220408		3320-356
VRB120-164LS					SCMT120404		3320-357
VRB160-204LC	VT-BT40-BS70 VT-BT50-BS100 VT-BT50-BS200 VT-BT50-BS300 VT-BT50-BS400	160~204	130	130	CCMT120408	4.8	3320-358
VRB160-204LT					TCMT220408		3320-359
VRB160-204LS					SCMT120404		3320-360
VRB200-310L	FMA-47.625	200~310	130	180	Optional Inserts CCMT120408 TCMT16T304 TCMT220408 SCMT120404	9.5	3320-361
VRB300-410L		300~410				11.5	3320-362
VRB400-510L		400~510				13.5	3320-363
VRB500-610L		500~610				15.5	3320-364
VRB600-900L		600~900				23	3320-365
VRB900-1200L	900~1200	32	3320-366				

BORING SYSTEM

## FBB Finish Boring Head

Boring diameter from  $\varnothing 20$ - $\varnothing 1250\text{mm}$



### FEATURES:

- FBH finish boring head is suitable for finish boring with working ranges from  $\varnothing 20\text{mm}$  to  $\varnothing 1250\text{mm}$  on diameter.
- The dial has been graduated into 50 divisions, each of which is 0.01mm on diameter. Available is a sub-dial for finer adjustment.
- High precision internal lead screw with inner lubrication is free from the effects of chip, featuring high durability.
- Coolant nozzle easily cools the insert and prolongs insert's working life.
- Cartridge unit is housed in a square structure with two face support, proving high stability and rigidity.

ORDER NO.	Tool Connection	$\varnothing$ D Boring Range	length	Weight (kg)	Insert/Clamping/Screw	CODE NO.
FBB20	B1070	20-26	35	0.1	TPGH080204/ $\varnothing 2.7 \times M2/T6$	3320-370
FBB25	B2080	25-33	40	0.2		3320-371
FBB32	B3080	32-42		0.3		3320-372
FBB40	B4070	40-55	50	0.5	TPGH080204/ $\varnothing 3.2 \times M2/T6$	3320-373
FBB52	B5075	52-75	60	1		3320-374
FBB68	B6065	68-102	70	2		3320-375
FBB100	B6065	100-152		2.9		3320-376
FBB150	B6065	150-202		4.2		3320-377



# FBB Finish Boring Head



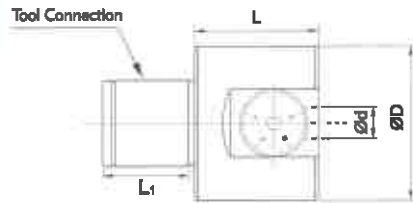
Boring diameter from Ø3 - Ø40 mm



**BORING CAPACITY**  
 FBB44 Ø8 - Ø20 m/m  
 FBB55 Ø12 - Ø40 m/m  
 FBB66 Ø8 - Ø40 m/m

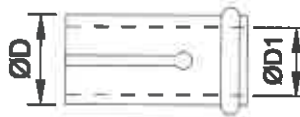
## FEATURES:

- Available are three different styles enabling small diameter boring from Ø8mm to Ø40mm. Boring range can be within Ø3mm to Ø10mm if small diameter solid carbide boring bar has been employed.
- The dial has been graduated into 50 divisions, each of which is 0.01mm on diameter. Available is a subdial for finer adjustment.
- High precision internal lead screw with inner lubrication is free from the effects of chip, featuring high durability.
- Cartridge unit is housed in a square structure with two face support, proving high stability and rigidity.



ORDER NO. Boring Head Type	Tool Connection	Ød Internal Diameter	ØD External Diameter	L length	L1	mm feed	Weight (kg)	CODE NO.
FBB44	B4070	10	39	32	Ø22x24L	0-2	0.4	3320-390
FBB55	B5060	12	50	40	Ø28x30L	0-3.5	0.8	3320-391
FBB66	B6065	16	64	50	Ø36x40L	0-5	1.4	3320-392

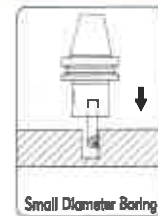
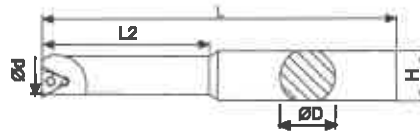
## BORING BAR SLEEVE FOR FBB66



ORDER NO.	D mm	D1 mm	Applicable Carbide Tool Holder	CODE NO.
EC1608	16	8	ST08-5M	3320-393
EC1610	16	10	ST10-6M	3320-394
EC1612	16	12	ST12-6M	3320-395



# Small Diameter Boring Head FBB44



Small Diameter Boring

## FOR FBB44 BORING CAPACITY FROM Ø8 - Ø20 MM

ORDER NO.	ØD mm	Ød mm	L mm	L2 mm	H mm	Insert	Clamp Screw	Wrench	CODE NO.
BRB1008-32	10	8	64	32	9	TBGT060104 KYOCERA	M2	T6	3320-400
BRB1010-40		10	72	40					3320-401
BRB1012-45		12	77	27		TPGB090204 KYOCERA	M2.5	T8	3320-402
BRB1016-45		16	77	27					3320-403
BRB1020-45		20	77	27		TPGB090204 KYOCERA	M2.5	T8	3320-404
BRB10-5PCS/SET	BRB1008-32 BRB1010-40 BRB1012-45 BRB1016-45 BRB1020-45								3320-405

## FOR FBB66 BORING CAPACITY FROM Ø8 - Ø40 MM

ORDER NO.	ØD mm	Ød mm	L mm	L2 mm	H mm	Insert	Clamp Screw	Wrench	CODE NO.
BRB1608-32	16	8	74	32	15	TBGT060104 KYOCERA	M2	T6	3320-406
BRB1610-40		10	75	40					3320-407
BRB1612-53		12	85	53		TPGB090204 KYOCERA	M2.5	T8	3320-408
BRB1616-68		16	100	68					3320-409
BRB1620-83		20	115	83		TPGB090204 KYOCERA	M2.5	T8	3320-410
BRB1625-90		25	122	90					3320-411
BRB1630-90		30	122	90					3320-412
BRB1640-90		40	122	90					3320-413
BRB16-8PCS/SET	BRB1608-32 BRB1610-40 BRB1612-53 BRB1616-68 BRB1620-83 BRB1625-90 BRB1630-90 BRB1640-90								3320-414

# Carbide Shank Holder



Small Diameter Modular Boring Bar

Boring diameter from  
Ø8 - Ø16 mm

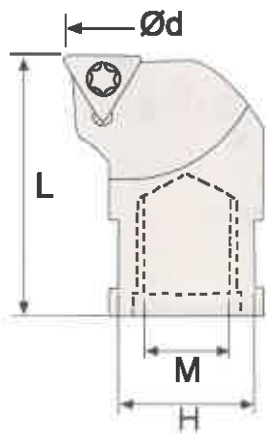


ORDER NO.	L mm	D mm	M mm	Applicable Insert Holder	Applicable Bushing	CODE NO.
ST08-5M-100	100	8	M5	IH09, IH10.5	EC1608	3320-420
ST10-6M-110	110	10	M6	IH12	EC1610	3320-421
ST12-6M-120	120	12		IH14, IH16	EC1612	3320-424
ST16-10M-160	160	16	M10x1.25P	IH18, IH20, IH22, IH24 IH26, IH28, IH30, IH32 IH34, IH36, IH38, IH40	—	3320-426

# Insert Holder For Carbide Shank Holder

Boring diameter from Ø9 - Ø40 mm

ORDER NO.	d(mm)	H(mm)	L(mm)	M(mm)	Insert	Clamping Screw	Wrench	CODE NO.
IH09	9	7	18	M5	TPGT080204L SUMITOMO	Ø3.2xM2	T6	3320-430
IH10.5	10.5	7	23	M6				3320-431
IH12	12	8						3320-432
IH14	14	10						3320-433
IH16	16	10						3320-434
IH18	18	14						3320-435
IH20	20	14	27	M10x1.25P				3320-436
IH22	22	14						3320-437
IH24	24	14						3320-438
IH26	26	14						3320-439
IH28	28	14						3320-440
IH30	30	14						3320-441
IH32	32	14						3320-442
IH34	34	14						3320-443
IH36	36	14						3320-444
IH38	38	14						3320-445
IH40	40	14	3320-446					



# VRB Changeable 2 Inserts Rough Boring Head

Boring diameter from Ø25 - Ø500 mm



- The head is suitable for single bit boring, twin-bit boring and step boring with working diameter from Ø25 mm to Ø350 mm on diameter.
- New cartridge style with built-up rib. The pressure imposed on both cartridges counteracts producing highest rigidity and cutting efficiency, most suitable for a variety of borings.
- Boring head can be easily adjusted to different boring needs for machining on demand. Boring depth can be extended by tool connection.
- Clear side division provides a convenient adjustment without using a tool pre-setter.
- Most suitable for boring on various machine centers or boring mills. Universal design accepts inserts of any brands, which will reduce tool grinding and greatly improve boring performance.
- Patented step boring design; suitable for both level boring and step boring.

# Changeable 2 Inserts Rough Boring Head VRB 200~900

Boring diameter from Ø25 - Ø204 mm



- Thickened cartridge with higher rigidity.
- Coolant nozzle easily cools the insert elongating its working life.
- Completed with chip pocket, improving chip flow of deep boring.
- Clamp plate solidifies cartridges and head, upgrading cutting rigidity.
- Patented step boring design; suitable for both level boring and step boring.

# Enlargeable Modular Rough Boring Head With Diameter Over Ø200mm

Boring diameter from Ø200 - Ø2,000 mm



- This type is suitable for large diameter boring with ranges from 200 mm to 810 mm.
- The structure includes common flange and extension slide for both rough and finish boring heads. Adjustment range is within 110 mm on diameter.
- Options of various inserts for rough boring of different materials and boring styles.
- Available is the horizontal slide made of Aluminum alloy to reduce total weight.
- Options of external boring kit with boring range from Ø20mm to Ø300mm.

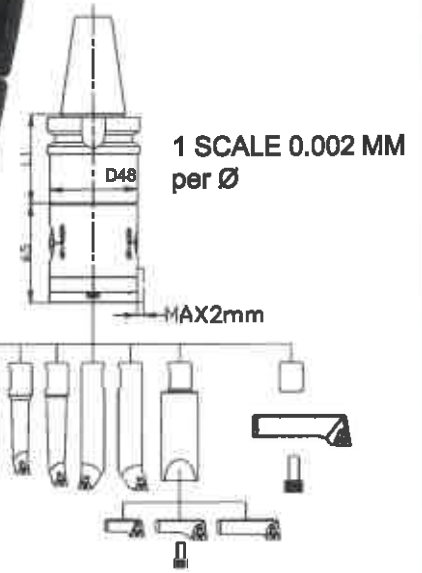


# Precision Finish Boring Head Sets



Boring diameter Ø 6-90 mm

**NEW**



- Processing range Ød 6-90 mm.
- This slim set allows customer to process boring work in the narrow space with high precision.
- Precisely ground and hardened shank integrating with boring head for routing and smooth operation.
- Please keep boring head clean and lubricate constantly.



## SET TYPE

ORDER NO.	Boring Range Ø	Shank	L1	Head Dia. ØD	PCS/SET	CODE NO.
VBHD-BT-30	6-90	BT30-VCK4-45	45	48	14 PCS/SET	3320-450
VBHD-BT-40		BT40-VCK4-60	60			3320-451
VBHD-BT-50		BT50-VCK4-75	75			3320-452
VBHD-SK-40		SK40-VCK4-65	65			3320-453
VBHD-SK-50		SK50-VCK4-75	75			3320-454
VBHD-NT-40		NT40-40-VCK4-60	60			3320-455
VBHD-NT-50		NT50-50-VCK4-60	60			3320-456
VBHD-HSK63A		HSK63A-VCK4-75	75			3320-457
VBHD-HSK100A		HSK100A-VCK4-75	75			3320-458

## VBHD SHANK

ORDER NO.	L	WEIGHT	CODE NO.
BT30-VCK4-45	45		3320-450S
BT40-VCK4-60	60		3320-451S
BT50-VCK4-75	75		3320-452S
SK40-VCK4-65	65		3320-453S
SK50-VCK4-75	75		3320-454S
NT40-40-VCK4-60	60		3320-455S
NT50-50-VCK4-60	60		3320-456S
HSK63A-VCK4-75	75		3320-457S
HSK100A-VCK4-75	75		3320-458S

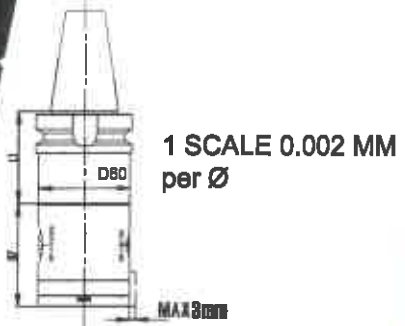
## ACCESSORIES: BORING BAR SIZE FOR SET TYPE

Boring Bar	Range d	Depth m	Insert	Screw	Wrench	Feed mm/REV.
BR-1606-20	6-9	20	WBG060102L	TS2	T6	0.05-0.1
BR-1608-28	8-11	28	TBGT060102L			0.05-0.1
BR-1610-36	10-13	36	TBGT060104L			0.07-0.15
BR-1612-42	12-15	42	TPGT090202L	TS25	T8	0.05-0.1
BR-1614-50	14-17	50				0.07-0.15
BR-1616-60	16-20	60				0.07-0.15
BR-1620-63	20-24	63	TPGT090204L	M5 X15 CAP	4	0.05-0.1
BR-1624-64	24-28	64				
BM5		60+SRTP2838/SRTP3652/SRTP4470				0.05-0.1
SRTP2838	28-38	+10	TPGT090202L	TS25	T8	
SRTP3652	36-52	+12				
SRTP4470	44-70	+12				
BM8				M8 X 15 CAP	6	0.07-0.15
SRTP58-90	58-90	+20	TPGT090204L	TS25	T8	

# Precision Finish Boring Head Sets

Boring diameter Ø 6-150 mm

**NEW**



- Processing range Ød 6-150 mm.
- This slim set allows customer to process boring work in the narrow space with high precision.
- Please keep boring head clean and lubricate constantly.
- Precisely ground and hardened shank integrating with boring head for routing and smooth operation.



BORING HEAD SETS

## SET TYPE

## VBHE SHANK

ORDER NO.	Boring Range Ø	Shank	L1	Head Dia. ØD	PCS/SET	CODE NO.
VBHE-BT-40	6-150	BT40-VCK5-60	60	60	15 PCS/SET	3320-460
VBHE-BT-50		BT50-VCK5-75	75			3320-461
VBHE-SK-40		SK40-VCK5-65	65			3320-462
VBHE-SK-50		SK50-VCK5-75	75			3320-463
VBHE-NT-40		NT40-40-VCK5-60	60			3320-464
VBHE-NT-50		NT50-50-VCK5-75	75			3320-465
VBHE-HSK63A		HSK63A-VCK5-75	75			3320-466
VBHE-HSK100A		HSK100A-VCK5-75	75			3320-467

ORDER NO.	L	WEIGHT	CODE NO.
BT40-VCK5-60	60		3320-460S
BT50-VCK5-75	75		3320-461S
SK40-VCK5-65	95		3320-462S
SK50-VCK5-75	75		3320-463S
NT40-40-VCK5-60	60		3320-464S
NT50-50-VCK5-75	75		3320-465S
HSK63A-VCK5-75	75		3320-466S
HSK100A-VCK5-75	75		3320-467S

## ACCESSORIES: BORING BAR SIZE FOR SET TYPE

Boring Bar	Range d	Depth m	Insert	Screw	Wrench	Feed mm/REV.
BR-1606-20	6-9	20	WBGT060102L	TS2	T6	0.05-0.1
BR-1608-28	8-11	28	TBGT060102L			0.05-0.1
BR-1610-36	10-13	36	TBGT060104L			0.07-0.15
BR-1612-42	12-15	42	TPGT090202L	TS25	T8	0.05-0.1
BR-1614-50	14-17	50				0.07-0.15
BR-1616-60	16-20	60				0.07-0.15
BR-1620-63	20-24	63	TPGT090204L			
BR-1624-64	24-28	64				
BM5		60+SRTP2838/SRTP3652/SRTP4470		M5 X15 CAP	4	
SRTP2838	28-38	+10	TPGT090202L	TS25	T8	0.05-0.1
SRTP3652	36-52	+12				0.07-0.15
SRTP4470	44-70	+12				0.07-0.15
BM8				M8 X 15 CAP	6	
SRTP70110	70-110	+20	TPGT090202L	TS25	T8	0.05-0.1
SRTP110150	110-150	+20	TPGT090204L			0.07-0.15





# Micro Boring Head Set



I Scale 0.002 mm Boring diameter from Ø6 - Ø154mm

NEW



- Processing range Ø6-154 mm.
- Precisely ground and hardened shank integrating with boring head for routing and smooth operation.
- Please keep boring head clean and lubricated constantly.
- Easy & Simple operation.
- Complete set.
- Fine adjustment.
- Luxury box.
- Material : tool steel



## SET TYPE

ORDER NO.	Boring Range Ø	Shank	L	Pcs/SET	Weight (kgs)	CODE NO.
VBH55-BT40	6-154	BT40-VBK5-75	75	18		3320-470
VBH55-BT50		BT50-VBK5-105	105	18		3320-471

## INCLUDING ACCESSORIES : BORING BAR SIZE FOR SET TYPE

Boring Bar		Range	Insert	Screw	Wrench
BR1606A-21		Ø6 - Ø9	WBGT060102	Ø3 x M2	T6
BR1608A-28		Ø8 - Ø11	TBGT060102	Ø2.7 x M2	T6
BR1610A-35		Ø10 - Ø13			
BR1612A-42		Ø12 - Ø15	TPGT090204	M2.5	T8
BR1614A-50		Ø14 - Ø17			
BR1616A-60		Ø16 - Ø20			
BR1620A-65		Ø20 - Ø24			
BR1624A-68		Ø24 - Ø28			
C16-BRM-SP27		Ø27 - Ø40			
C16-BRM-SP35		Ø35 - Ø50			
C16-BRM-SP45		Ø45 - Ø68			
CB-M10-SP55		Ø55 - Ø80			
CB-M10-SP68		Ø68 - Ø104			
CB-M10-SP100		Ø100 - Ø154			

# Micro Boring Head Set



I Scale 0.002 mm Boring diameter from Ø6 - Ø204mm

**NEW**



- Processing range Ø6-204 mm.
- Precisely ground and hardened shank integrating with boring head for routing and smooth operation.
- Please keep boring head clean and lubricated constantly.
- Easy & Simple operation.
- Complete set.
- Fine adjustment.
- Luxury box.
- Material : tool steel



BORING HEAD SETS

## SET TYPE

ORDER NO.	Boring Range Ø	Shank	L	Pcs/SET	Weight (kgs)	CODE NO.
VBH68-BT40	6-204	BT40-VBK6-65	65	19		3320-476
VBH68-BT50		BT50-VBK6-95	95	19		3320-477

## INCLUDING ACCESSORIES : BORING BAR SIZE FOR SET TYPE

Boring Bar		Range	Insert	Screw	Wrench
BR1606A-21		Ø6 - Ø9	WBGT060102	Ø3 x M2	T6
BR1608A-28		Ø8 - Ø11	TBGT060102	Ø2.7 x M2	T6
BR1610A-35		Ø10 - Ø13			
BR1612A-42		Ø12 - Ø15			
BR1614A-50		Ø14 - Ø17			
BR1616A-60		Ø16 - Ø20			
BR1620A-65		Ø20 - Ø24	TPGT090204	M2.5	T8
BR1624A-68		Ø24 - Ø28			
C16-BRM-SP27		Ø27 - Ø40			
C16-BRM-SP35		Ø35 - Ø50			
C16-BRM-SP45		Ø45 - Ø68			
CB-M10-SP68		Ø68 - Ø104			
CB-M10-SP100		Ø100 - Ø154			
CB150-RCM100-SP100		Ø150 - Ø204			



# High Precision Boring Head Set



**NEW**

1 SCALE 0.005 mm

0.01 mm per Ø

BORING CAPACITY Ø8-Ø46



Clamping Screw For Boring Bar

## VBH 620

- Good for high speed, high precision boring work.
- Made of tool steel, high rigidity, no deformation.
- Each dividing scale is 0.005 mm, total stroke: 6 mm.  
For Ø diameter is 0.01 mm
- Can choose any taper (BT40, BT50, SK40, SK50) shank.
- Include 8 boring bars, range Ø8 ~ Ø46 mm.
- Boring bar size = Ø16 x 8 pcs
- Insert locking screw 8 x 3 = 24 pcs
- Wrench x 6 pcs
- 4 mm T wrench x 1 pcs



## SET TYPE

ORDER NO.	SHANK TYPE	DRAWBAR	THREAD	Weight (kgs)	CODE NO.
		S.A.E	METRIC		
VBH620-NT40	NT-40	5/8"-11W	M16X2.0P	6.5	3320-480
VBH620-NT50	NT-50	1"-8W	M24X3.0P	7.8	3320-481
VBH620-BT40	BT-40		M16X2.0P	6.5	3320-482
VBH620-BT50	BT-50		M24X3.0P	8	3320-483
VBH620-SK40	SK-40		M16X2.0P	6.5	3320-484
VBH620-SK50	SK-50		M24X3.0P	7.8	3320-485

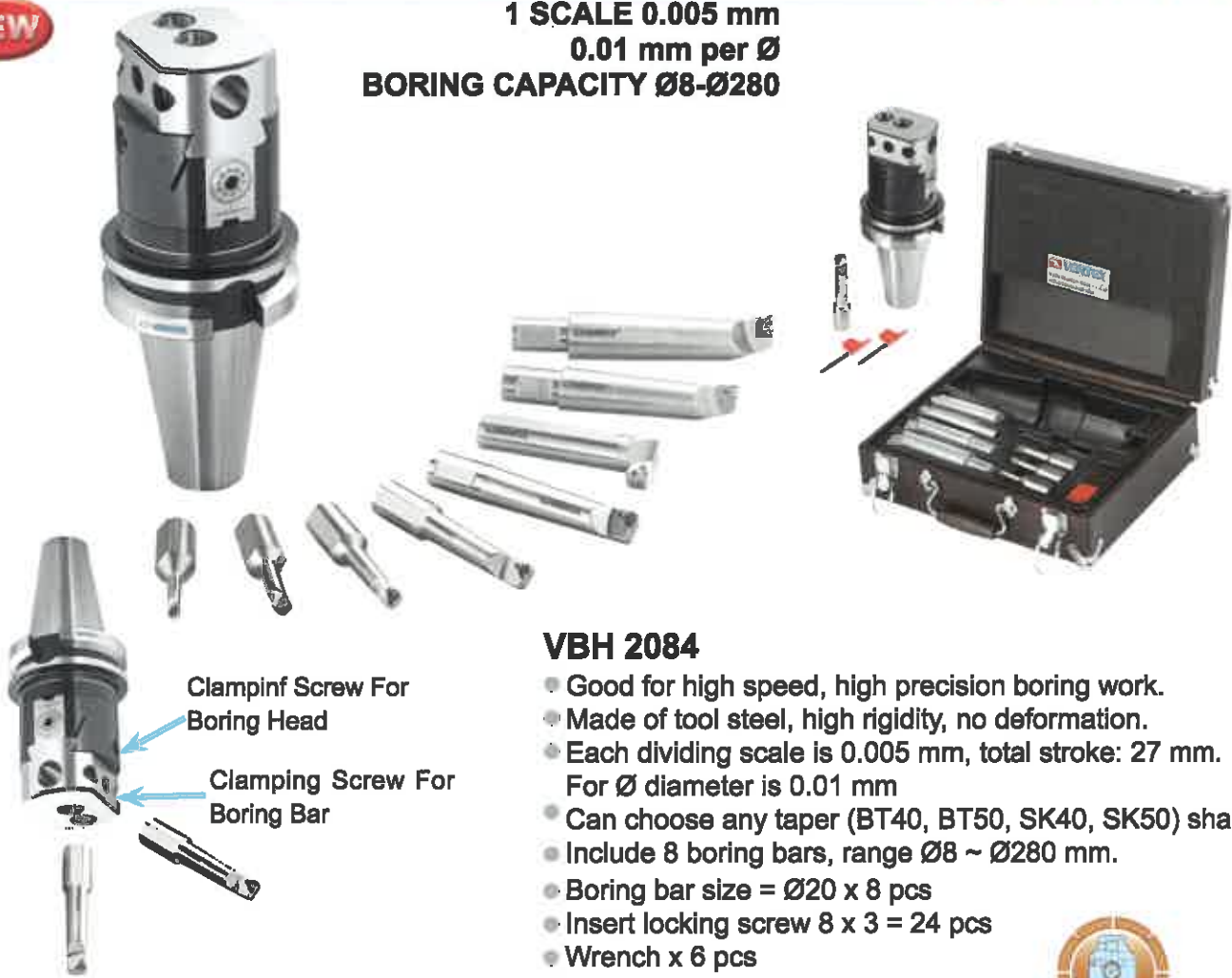
## BORING BAR FOR BORING HEAD

BORING BAR	RANGE d	DEPTH m	SHANK L	INSERT	SCREW	WRENCH
BRB1608-32	8-11	32	80	TBGT060102L	TS2001	T6
BRB1610-40	10-13	40	80			
BRB1612-53	12-15	53	85			
BRB1616-68	16-21	68	100	TPGH090204L	TS2504	T8
BRB1620-83	20-26	83	115			
BRB1625-90	25-31	90	122	TPGH110304L	TS3005	T10
BRB1630-90	30-36	90	122			
BRB1640-90	40-46	90	122			

# High Precision Boring Head Set

**NEW**

**1 SCALE 0.005 mm  
0.01 mm per Ø  
BORING CAPACITY Ø8-Ø280**



## VBH 2084

- Good for high speed, high precision boring work.
- Made of tool steel, high rigidity, no deformation.
- Each dividing scale is 0.005 mm, total stroke: 27 mm. For Ø diameter is 0.01 mm
- Can choose any taper (BT40, BT50, SK40, SK50) shank.
- Include 8 boring bars, range Ø8 ~ Ø280 mm.
- Boring bar size = Ø20 x 8 pcs
- Insert locking screw 8 x 3 = 24 pcs
- Wrench x 6 pcs
- Hexa 6 wrench x 1 pcs



## SET TYPE

ORDER NO.	SHANK TYPE	DRAWBAR	THREAD	Weight (kgs)	CODE NO.
		S.A.E	METRIC		
VBH2084-R8	R-8	7/16"-20UNF	n/a	6.6	3320-491
VBH2084-NT30	NT-30	1/2"-12W	M12X1.75P	6.6	3320-492
VBH2084-NT40	NT-40	5/8"-11W	M16X2.0P	7	3320-493
VBH2084-NT50	NT-50	1"-8W	M24X3.0P	9	3320-494
VBH2084-BT40	BT-40		M16X2.0P	8	3320-495
VBH2084-BT50	BT-50		M24X3.0P	10.4	3320-496
VBH2084-SK40	SK-40		M16X2.0P	8	3320-497
VBH2084-SK50	SK-50		M24X3.0P		3320-501
VBH2084-MT3	MT-3		M12X1.5P	6.6	3320-498
VBH2084-MT4	MT-4		M16X2.0P	7	3320-499
VBH2084-MT5	MT-5		M24X3.0P	8	3320-500

## BORING BAR FOR BORING HEAD

BORING BAR	RANGE d	DEPTH m	SHANK L	INSERT	SCREW	WRENCH
BRB2008-32	8-11	32	80	TBGT060102L SUMITOMO	TS2001	T6
BRB2010-40	10-13	40	80			
BRB2012-53	12-17	53	85	TPGH090204L MITSUBISHI	TS2504	T8
BRB2016-68	16-21	68	100			
BRB2020-83	20-130	83	115	TPGH110304L MITSUBISHI	TS3005	T10
BRB2025-96	25-135	96	135			
BRB2030-115	30-140	115	154			
BRB2035-97-L	120-280	14	99			

BORING HEAD SETS



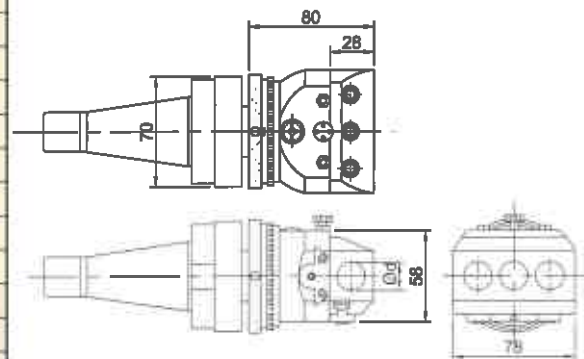
# Universal Boring And Facing Master Head **VERTEX**

**BORING CAPACITY Ø5-Ø250**  
**FOR VERTICAL HOLE BORING IS Ø110**

**1 SCALE 0.01 mm per Ø**



ORDER NO.	SHANK TYPE	DRAWBAR THREAD		Weight (kg)	CODE NO.
		S.A.E	METRIC		
VBHU-202	MT-3	1/2"-12W	M12X1.5P	6	3401-001
VBHU-203	MT-4	5/8"-11W	M16X2.0P	6.3	3401-002
VBHU-204	MT-5	1"-8W	M24X3.0P	7	3401-003
VBHU-205	R-8	7/16"-20UNF	n/a	6.2	3401-004
VBHU-206	NT-30	1/2"-12W	M12X1.75P	6	3401-005
VBHU-207	NT-40	5/8"-11W	M16X2.0P	6.2	3401-006
VBHU-208	NT-50	1"-8W	M24X3.0P	8.5	3401-007
VBHU-209	BT-40		M16X2.0P	6.9	3401-008
VBHU-210	C-25			4.5	3401-009
VBHU-211	SK-40		M16X2.0P	5.6	3401-010
VBHU-212	SK-50		M24X3.0P	8.3	3401-011
VBHU-213	BT-50		M24X3.0P	9.7	3401-012
VBHU-214	C-20			6	3401-013




## SPECIFICATION VBHU

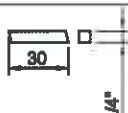
Unit:mm

ACTUAL SIZE	OVERING BAR HOLE SIZE	BORING BAR HOLE SIZE	CENTER DIST BETWEEN HOLES.	CROSS HOLE DIA	OFFSET
78	100	18	23	18	15

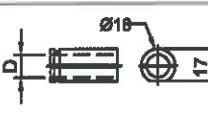
It is construction with precision parts, freedom of selection feeding quantity, auto feed and stop. Processing range from 5mm to 250mm.




Stop Rod  
BP-17



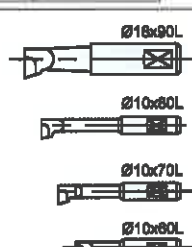
Square Bar(188) BP-18



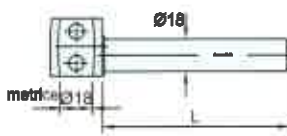
Clamping Sleeve	
metric	D
BP-7	Ø10
BP-8	Ø12



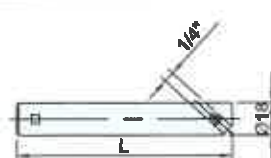
Allen Key	
	A
BP-14	4
BP-15	5
BP-16	6



Boring Bar	
metric	ØxL
BP-9	Ø18x90
BP-10	Ø10x80
BP-11	Ø10x70
BP-12	Ø10x60

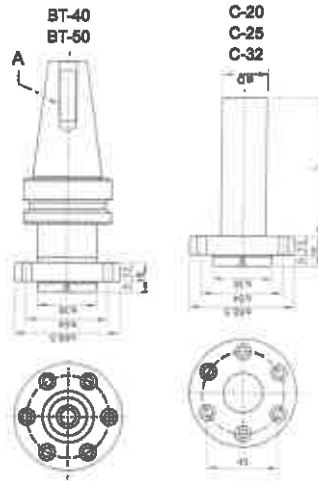
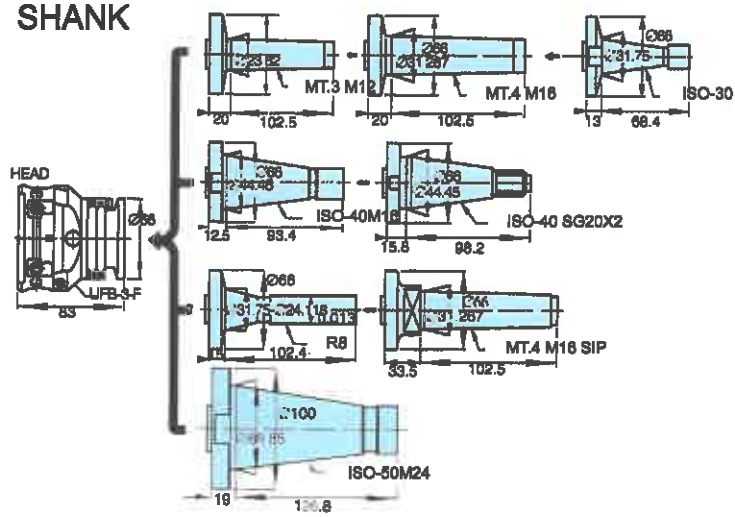


Boring Bar	
metric	L
BP-21	104

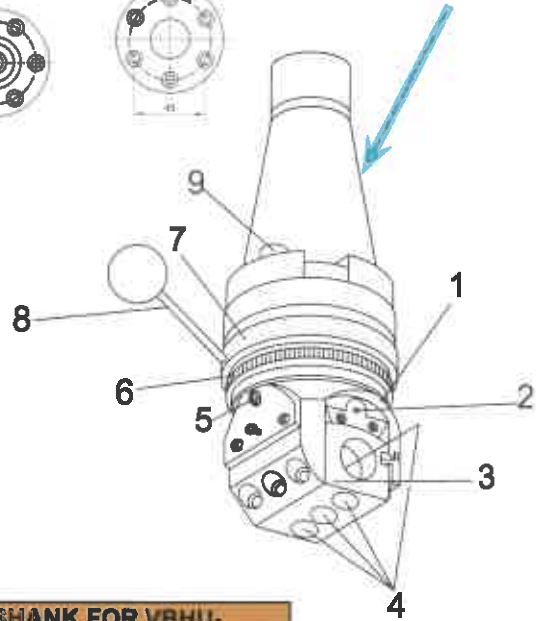


Boring Bar	
metric	L
BP-1	90
BP-2	120

## SHANK



SHANK CHANGEABLE



Main part of the universal boring heads is the body(1), in which the tool slide (3) moves on dovetail guideways. The tool slide is provided with holes for accommodation of tools and tool holders(4). In boring holes or turning external cylindrical surfaces, the tool is adjusted with the aid of the graduated dial for fine setting of tool slide(5), one division of which means a change in diameter of bored hole by .0005".

On the types rapid adjustment of the tool slide(3) can be produced by rotating the graduated dial for quick adjustment of the tool slide(2).

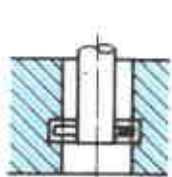
During recessing, turning of front or rear facings or similar jobs calling for automatic transverse feed movement to the tool slide, the preselected feed movement to the tool slide is engaged with the aid of the engagement ring (6). After setting of tool, the automatic transverse feed movement to the tool slide is started by braking of the brake ring(7), by means of the handle(8).

The clutch(9) provides for tripping of the automatic feed movement when cutting resistance increases or when the trip dog is approached.

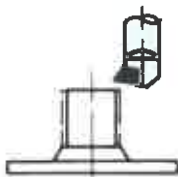
Mechanism of the boring heads has a lubrication circuit delivering oil from two lubricators to all friction surfaces.

All parts are hardened and working surfaces are ground.

SHANK FOR VBHU-		
MT-3	MT-4	MT-5
NT-30	NT-40	NT-50
R-8		
C-20	C25	C-32
BT-40		BT-50
	SK-40	SK-50



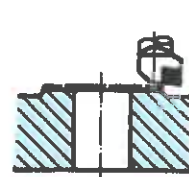
Recessing



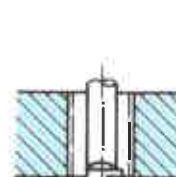
Outside turning



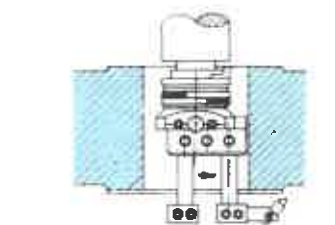
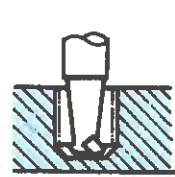
From Inside Inward



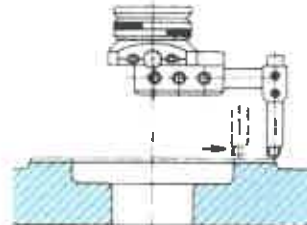
From inside outward



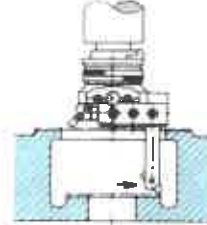
Boring with several different bits from 5Ø -250mm



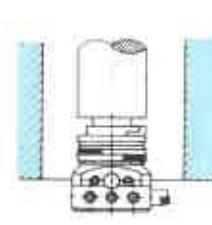
Facing of the reverse side by using boringbar holders contained in attachment.



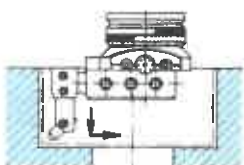
Facing of large Ø with long boringbar holder reinforced by rings and draw in screw



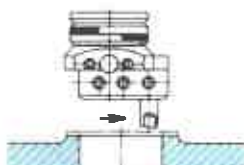
Facing in two areas with one boringbar and boringbar holder



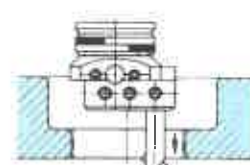
Because of the small construction of the facing and boring heads deep bores can be made. In this case the boring bit is fixed directly in the slide.



Boring and facing with short boringbar holder and a boringbar

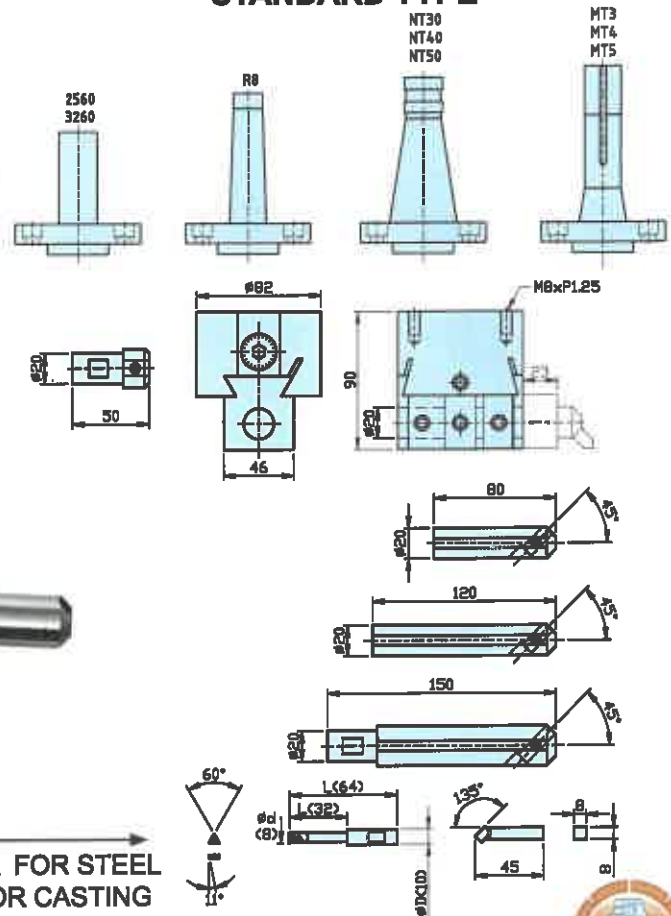


Facing with bit fixed directly in slide



Boring with long boringbar

## STANDARD TYPE



INSERT NO. \_\_\_\_\_  
 TBGT060102L-W-T1200A FOR STEEL  
 TBGT060102L-W-G11 FOR CASTING  
 "SUMITOMO" BRAND



### 1 SCALE 0.005 mm, 0.01 mm per Ø Processing Range $\varnothing 10 \sim \varnothing 240$ mm

Simple, extremely rigid construction, Finest materials and craftsmanship are employed to combine strength, flexibility and accuracy in a tool of unique design. 2 vertical boring tool holes: one centered and one offset. One cross hole for greater versatility and capacity. Dependable adjustment --- far spread graduation for closer reading. Perfectly balanced for high speed operation. Precision ground & hardened shank are integrating with the head for routing and smoother operation.

### FULL SET

ORDER NO.	SHANK TYPE	DRAWBAR THREAD		Weight (kgs)	CODE NO.
		S.A.E	METRIC		
VBH-102	MT-3		M12X1.75P	5.9	3401-101
VBH-103	MT-4		M16X2.0P	6.1	3401-102
VBH-104	MT-5		M20X3.0P	7	3401-103
VBH-105	R-8	7/16"-20UNF		5.9	3401-104
VBH-106	NT-30	1/2"-12W or 1/2"-13W	M12X1.75P	5.8	3401-105
VBH-107	NT-40	5/8"-11W	M16X2.0P	6	3401-106
VBH-108	NT-50	1"-8W	M24X3.0P	8.9	3401-107
VBH-109	BT-40	-	M16X2.0P	7.1	3401-108
VBH-110	SK-40	-	M16X2.0P	6.8	3401-109
VBH-111	C-25			5.7	3401-110
VBH-112	BT-50		M24X3.0P	9.4	3401-111
VBH-113	SK-50		M24X3.0P	5.9	3401-112
VBH-114	C-32			5.9	3401-113

### SHANK FOR BORING HEAD

ORDER NO.	VBH-MT3	VBH-MT4	VBH-MT5	VBH-R8
WEIGHT (KG)	0.6	1.2	2.1	1
CODE NO.	3401-120	3401-121	3401-122	3401-123

ORDER NO.	VBH-NT30	VBH-NT40	VBH-NT50	VBH-BT40
WEIGHT (KG)	1.1	1.2	3.9	1.9
CODE NO.	3401-124	3401-125	3401-126	3401-127

ORDER NO.	VBH-SK40	VBH-C25	VBH-BT50	VBH-SK50
WEIGHT (KG)	1.9	1.5	3.1	3.98
CODE NO.	3401-128	3401-129	3401-130	3401-131



MT-3, 4, 5  
 NT-30, 40, 50  
 BT-40, 50  
 SK-40, 50  
 C-25, 32

1 SCALE 0.01 mm  
0.02 mm per Ø



VBHC-BC2 SET TYPE



MAX. BORING DEPTH 50 mm

Here is a sturdy unit of extended boring range, capable of peeling off heavy roughing cuts as well as a tool of extreme sensitivity.

The use of a wide base bar holder, resting securely on the body, eliminates the need for a separate side plate. You will note this has now become an integral part of the body.

The direct reading adjusting screw is ground after hardening and a plainly marked dial face in nonreflecting satin chrome allows easy reading and adjustments of 0.01 or less.

All Criterion Boring Heads have threaded backs for use with a variety of shanks. This model takes a 1-1/2"-18 threaded shank.

SHANK SIZE: NT-30,40,50, MT-3,4,5,R8



VBHC-BC3 SET TYPE

## BORING CAPACITY Ø10~Ø110



ORDER NO.	WEIGHT (kgs)	CODE NO.
VBHC-R-8-BC-2	2	3401-150
VBHC-MT-2-BC-2	1.66	3401-149
VBHC-MT-3-BC-2	1.9	3401-151
VBHC-MT-4-BC-2	2.1	3401-152
VBHC-NT-30-BC-2	2.2	3401-153
VBHC-NT-40-BC-2	2.8	3401-154
VBHC-BT-30-BC-2	2.65	3401-155
VBHC-BT-40-BC-2	2.65	3401-156
VBHC-BT-50-BC-2	5.65	3401-157
VBHC-C-20-BC-2	1.75	3401-158
VBHC-SK-40-BC-2		3401-174
VBHC-SK-50-BC-2		3401-176

## BORING CAPACITY Ø10~Ø220



ORDER NO.	WEIGHT (kgs)	CODE NO.
VBHC-R-8-BC-3	4.2	3401-160
VBHC-MT-2-BC-3	4	3401-148
VBHC-MT-3-BC-3	4	3401-161
VBHC-MT-4-BC-3	4.3	3401-162
VBHC-NT-30-BC-3	4.1	3401-163
VBHC-NT-40-BC-3	4.7	3401-164
VBHC-NT-50-BC-3	6.9	3401-165
VBHC-BT-30-BC-3	4.34	3401-166
VBHC-BT-40-BC-3	4.7	3401-167
VBHC-BT-50-BC-3	7.7	3401-168
VBHC-C-20-BC-3	4	3401-169
VBHC-SK-40-BC-3		3401-175
VBHC-SK-50-BC-3		3401-177



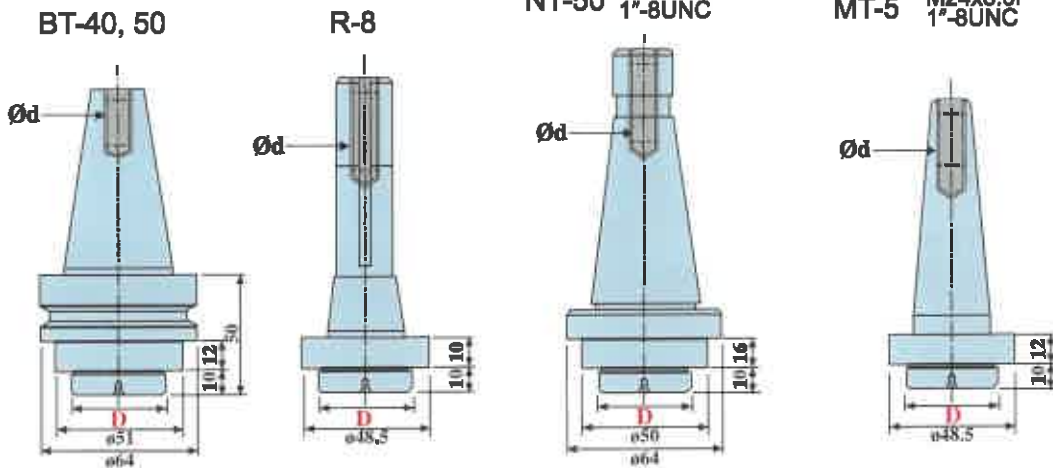


FOR VBHC-TYPE  
AND BC-2, BC-3, BC-4  
BORING HEAD



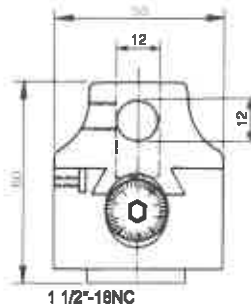
D: 1 1/2"-18UNC

The shanks are made for C-type boring head use.  
Also it can be replaced from time to time.



ORDER NO.	VBC-R8	VBC-NT30	VBC-NT40	VBC-MT2	VBC-MT3	VBC-MT4	VBC-MT5
WEIGHT (KG)	0.4	0.7	1.3	0.39	0.6	0.9	1.6
CODE NO.	3401-210	3401-211	340-212	3401-209	3401-213	3401-214	3401-215

ORDER NO.	VBC-BT40	VBC-BT50	VBC-C20	VBC-SK40	VBC-BT30	VBC-SK50
WEIGHT (KG)	1.4	3.97	0.4	1.28	1.1	1.3
CODE NO.	3401-216	3401-217	3401-219	3401-222	3401-223	3401-224



**1 SCALE 0.01 mm  
0.02 mm per Ø**

Here is a small head that will be in constant demand in any shop.

Note the wide base bearing surface that assures maximum rigidity even when the bar holder is in an off-set position. This wide base design is a recent Criterion innovation that increases bearing surfaces by 50% over the older models.

A 1/2" double hole bar holder with a 1/2" cross hole is available.

The unit has a 1 1/2"-18NC threaded back and also features a direct reading dial screw.

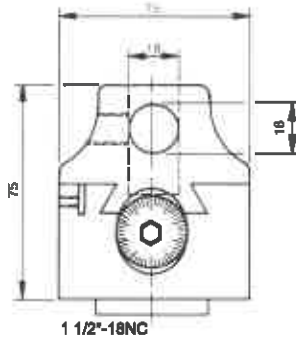
ORDER NO. VBC-2

## SPECIFICATION

BORING CAPACITY Ø10-Ø100

ORDER NO.	ACTUAL SIZE	OVERALL LENGTH	BORING BAR HOLE SIZE	CENTER DIST BETWEEN HOLES.	CROSS HOLE DIA	OFFSET	WEIGHT (kg)	CODE NO.
VBC-2(l)	2" Dia.	2-7/16"	1/2"	5/8"	1/2"	5/8"	0.7	3401-301
VBC-2(m)	50	62	12	15	12	15	0.8	3401-302

BORING HEAD



**1 SCALE 0.01 mm  
0.02 mm per Ø**

Here is a sturdy unit of extended boring range, capable of peeling off heavy roughing cuts as well tool of extreme sensitivity. The use of a wide-base bar-holder resting securely on the body, eliminates the need for a separate side plate. You will notice it has now become an integral part of the body.

The direct reading adjusting screw is ground after hardening and a plainly marked dial face in non-reflecting satin chrome allows easy reading and adjustments of .0005 or less.

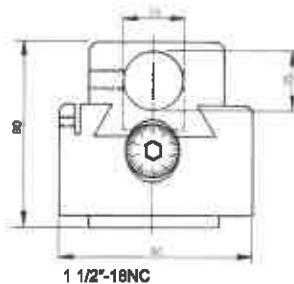
All Criterion Boring Heads have threaded backs for use with a variety of shanks. This model takes a 1-1/2"-18NC threaded shank.

ORDER NO. VBC-3

## SPECIFICATION

BORING CAPACITY Ø10-Ø220

ORDER NO.	ACTUAL SIZE	OVERALL LENGTH	BORING BAR HOLE SIZE	CENTER DIST BETWEEN HOLES.	CROSS HOLE DIA	OFFSET	WEIGHT (kg)	CODE NO.
VBC-3(l)	3" Dia.	3.5/32"	3/4"	15/16"	3/4"	1"	2	3401-303
VBC-3(m)	75	80	18	23	18	25	2	3401-304



**1 SCALE 0.01 mm  
0.02 mm per Ø**

This is a bigger boring head which can be put on large machine to process more as you want. The radius of boring hole can reach on about Ø 400mm long by a boring bar of 160mm. All Criterion Boring Heads have threaded backs for use with a variety of shanks. This model takes a 1-1/2"-18NC threaded shank.

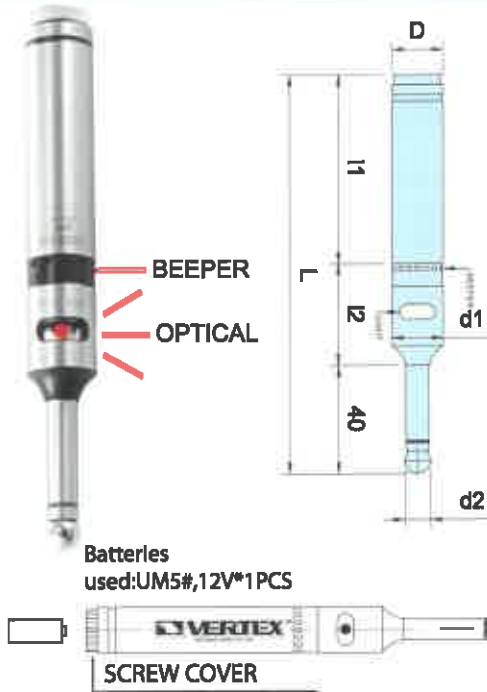
## SPECIFICATION

BORING CAPACITY Ø10-Ø250

ORDER NO.	ACTUAL SIZE	OVERALL LENGTH	BORING BAR HOLE SIZE	CENTER DIST BETWEEN HOLES.	CROSS HOLE DIA	OFFSET	WEIGHT (kg)	CODE NO.
VBC-4(l)	4" Dia.	3-1/2"	1"	1-1/4"	1"	1"	4	3401-305
VBC-4(m)	100	90	25	32	25	25	4	3401-306

## Edge Finder with Beeper & Optical

- No need to rotate while measuring.
- The red light was sealed with setting red-gel; it can concentrate the light and resist water.
- The sensor beeps while the red light is on.
- The sensor will beep when the user couldn't see the reverse side or get a clear sight.
- Example. If sensor's light is working, visually you couldn't see inside of the inner hole, while probing the user can be warned by the beeper.
- When probe the deep hole, you can't see the red light, but you can hear the sound from beeper.
- Accuracy: within  $\pm 0.005\text{mm}$ .



## OPTICAL TYPE WITH BEEPER

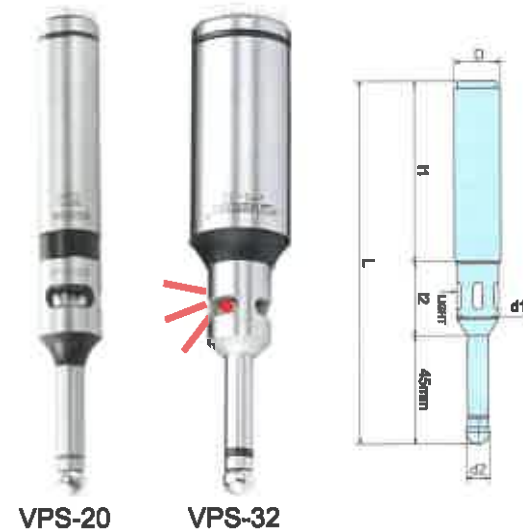
Unit:mm

ORDER NO.	D	d1	d2	L	I1	I2	BATTERY TYPE	WEIGHT (kg)	CODE NO.
VPS-20B	Ø20	18	10	157	77	41	UM-5#(SP) x1PCS/12V	0.4	3402-001
VPS-32B	Ø32	18	10	157	74	41		0.7	3402-002
VPS-3/4B	Ø3/4	18	10	157	74	41		0.7	3402-012

# Touch Point Sensor

## Optical Type

## Without Beeper



- High sensitivity position sensor.
- Red pilot can be seen clearly.
- Whole travel of red pilot is sparkling, detecting also can be done during turning while spindle stops.
- Location of end surface, outer circle dia., inner circle dia. of the work-piece for processing can be detected with full effect.
- Devised with safety line excess, ball supported by spring, so even line excess, it will be separated easily from the base shown as the fig.
- The precision will reach up to micrometer while the ball returns to center position.
- Edge Finder
- Accuracy: Within  $\pm 0.005\text{mm}$

## OPTICAL TYPE

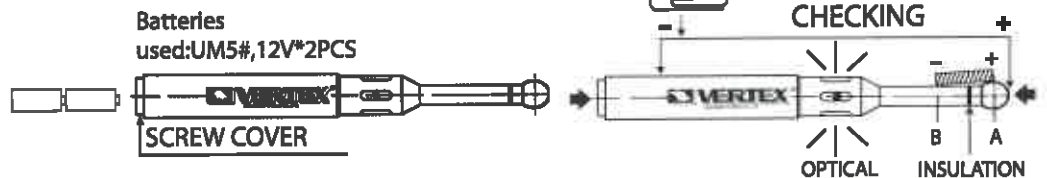
Unit:mm

ORDER NO.	D	d1	d2	L	I1	I2	BATTERY TYPE	WEIGHT (kg)	CODE NO.
VPS-20	20	18	10	157	76	33	UM-5#(SP) x2P/R1.1.5V	0.4	3402-003
VPS-32	32	18	10	157	74	41		0.7	3402-004

After Reading the Following instruction, please use touch point sensor correctly due to it's a highly sensitive position detector. Don't Rotate the touch point sensor while using it.

### 1. Install BATTERY

Take off the screw cover and insert batteries correctly. Do not insert batteries upside down.

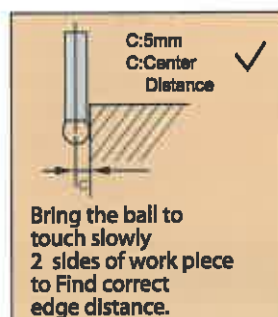


### 2. CONFIRMATION OF LIGHTING

CHECK the lighting of red lamp by touching A-B part with a metal (clip, L-PLATE etc.)

### 3. MEASURING METHOD

As soon as the ball (outside dia. 10mm $\phi$ ) touches the work piece with the main spindle stopped, The red lamp lights on.

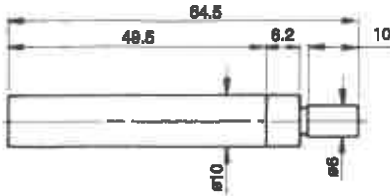


前注意 / 光電式導邊器不適合迴轉使用  
Notice: optical edge finder is not suited FOR Rotation.

## Edge Finder



VPS-201



This series is a high precision setting device for positioning the accurate center between tool spindle of machine and reference surface of working at low-cost and saving time.

Accuracy : within  $\pm 0.005$  mm

Made of tool steel, hardened and ground.

Suitable rotation speed : VPS-201 450 to 600rpm.

VPS-401 600 to 1,000 rpm



CREAMIC TYPE VPS-201C



### MECHANICAL TYPE

ORDER NO.	VPS-201	VPS-201C
WEIGHT (KG)	0.03	0.06
CODE NO.	3402-005	3402-007



TOUCH POINT SENSOR

# Touch Point Sensor

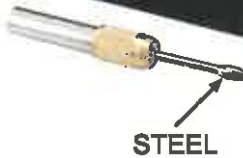
## Deluxe Type



VPS-401



VPS-401C



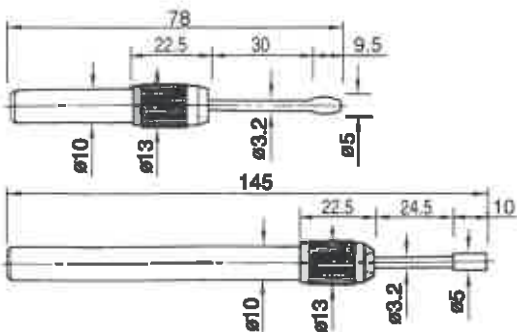
CERAMIC

### FEATURES:

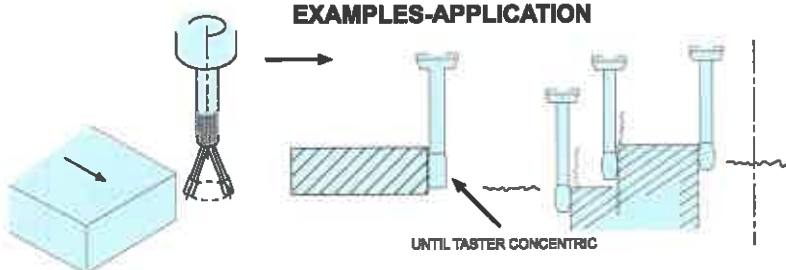
- ◆ Material: high-carbon steel.
- ◆ Accuracy: within  $\pm 0.003$ mm
- ◆ Hardness: HRC  $58^{\circ} \pm 1^{\circ}$
- ◆ R.P.M. Within 600-1000
- ◆ Suitable for milling machine. Drill machine and boring machine.
- ◆ Edge Finder

VPS-401 (2 PCS/SET)  
VPS-402A(LONG) SINGLE  
VPS-402B(SHORT) SINGLE

ORDER NO.	VPS-401	VPS-401C
PCS/SET	2PCS/SET	2PCS/SET
MATERIAL	STEEL	CERAMIC
WEIGHT (KG)	0.26	0.26
CODE NO.	3402-006	3402-008



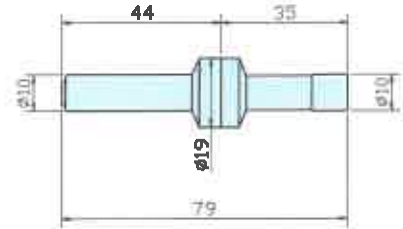
### EXAMPLES-APPLICATION



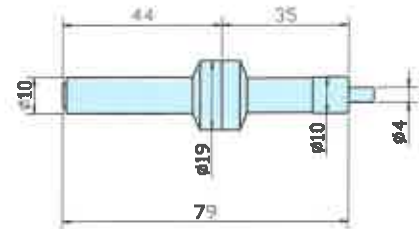
## MECHANICAL TYPE



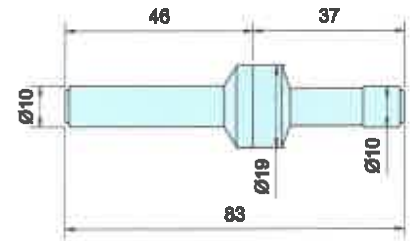
VPS-301 STEEL  
VPS-301S STAINLESS



VPS-302 STEEL  
VPS-302S STAINLESS



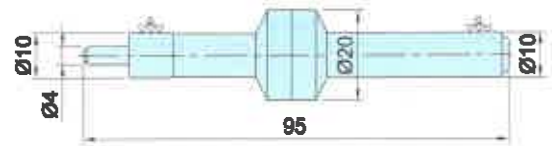
VPS-301C CERAMIC TYPE



**NEW**



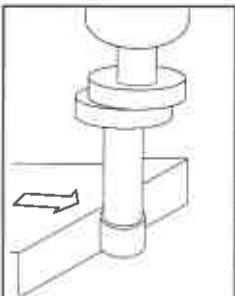
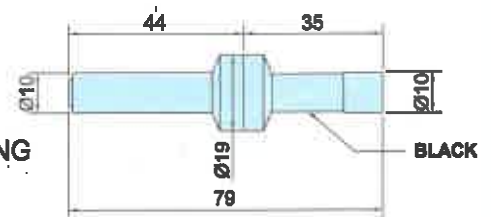
VPS-302C CERAMIC TYPE



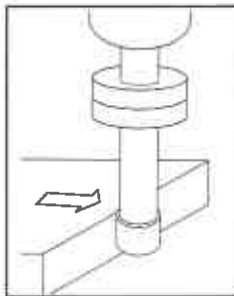
**NEW**



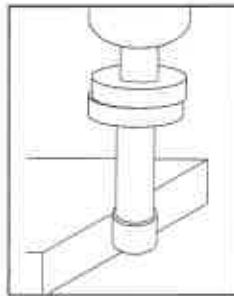
VPS-303 NON-MAGNETIC COATING



Spindle runs about 500rpm. move spindle closed to measuring surface.



When measuring probe touches workpiece, it looks in one part.

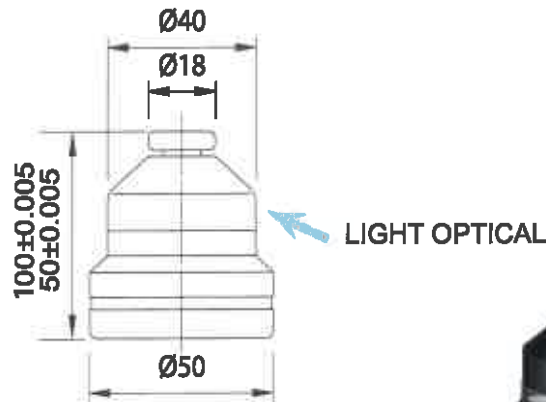


When the probe and shank are in alignment, probe will slide out of rotating center. Now, the center spindle is located 5mm away from measuring surface

- ◆ Accuracy of zero point to point is within  $\pm 0.003\text{mm}$
- ◆ R.P.M. within 450-600.
- ◆ Max. flange can be clear your sight sense.
- ◆ MIN.(4mm) can be test mini hole for your workpiece.

ORDER NO.	MATERIAL	HARDNESS	WEIGHT (kg)	CODE NO.
VPS-301	ALLOY STEEL	HRC 56'	0.06	3402-100
VPS-302			0.05	3402-101
VPS-301S	STAINLESS	HRC 60'	0.06	3402-102
VPS-302S			0.06	3402-103
VPS-301C	CERAMIC	HRC 60'	0.06	3402-104
VPS-302C	CERAMIC	HRC 60'	0.06	3402-105
VPS-303	NON-Magnetic Coating	HRC 56'	0.06	3402-106

### HP-50Z



HP-50Z BATTERY  
LR4476AG13  
1SET/2PCS  
HP-50ZM  
LR44  
1SET/2PCS

MODEL For NEXT

- Height 50 mm and 100 mm.
- With Magnetic base.
- The red lamp will be lighted up when touched.
- Accuracy 0.005 mm.
- Combined vertical and horizontal in a unit.
- Weight:0.7 kgs

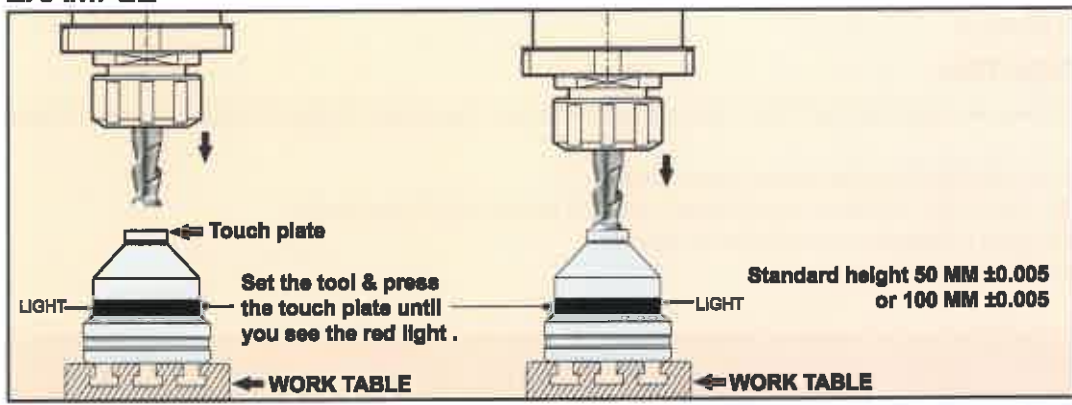


HEIGHT PRESETTER

- A. HP-50 / 100 / ZM / EM SERIES BUILT-IN MEGNETS FOR EASIER SETUP. VERTICAL & HORIZONTAL !
- B. STANDARD HEIGHT : 50 OR 100 MM
- C. WEIGHT ABOUT 0.7-1.2 KGS
- D. WHEN TOUCHED, THE RED LAMP LIGHTS ON.
- E. ACCURACY : WITHIN 0.005 MM
- F. BATTERY TYPE : LR44 / A76 / G13 X 2 PCS

- MANUAL:
1. THERE IS A MECHNISM BELOW THE TOUCH PLATE CAN BE ADJUSTED BY GAUGE BLOCK.
  2. WHEN MACHINE SPEED IS HIGH, PLEASE REDUCE THE SPEED & GO UP /DOWNWARD UNTIL THE RED LIGHT IS OFF.
  3. PROCEED AGAIN IN LOWER SPEED.
  4. HORIZONTAL POSITION (HPXXX-XXEM/ZM SERIES-MAGNETIC FUNC.ONLY)  
PLEASE USE THE TOP TIP OF THE CUTTER TO TOUCH THE TOUCH PLATE.
- ※ CAN NOT USE VERNIER TO CHECK / RE-SET

### EXAMPLE



ORDER NO.	H	STYLE	WEIGHT (kg)		CODE NO.
			N.W.	G.W.	
HP-50Z	50mm	STANDARD TYPE	0.32	0.7	3403-001
HP-50ZM	50mm	WITH MAGNETIC BASE	0.32	0.7	3403-002
HP-100Z	100mm	STANDARD TYPE	1.0	1.25	3403-003
HP-100ZM	100mm	WITH MAGNETIC BASE	1.0	1.22	3403-004

**NEW**

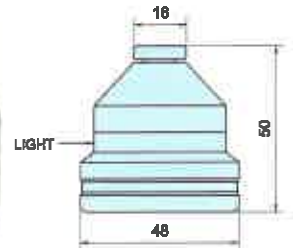
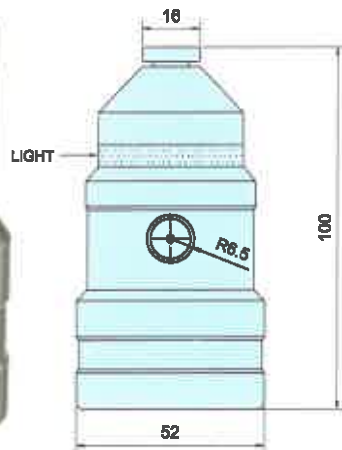


# Electronic Tool Length Setter

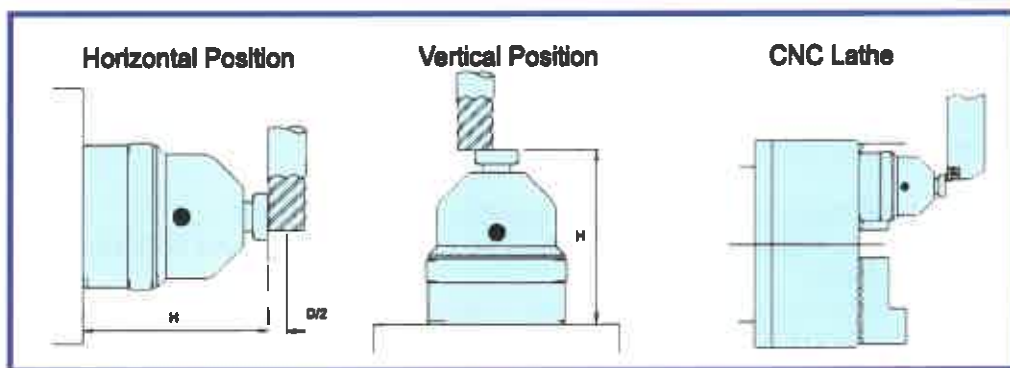


# VERTEX®

## STAINLESS STEEL BASE WITH MAGNET



### EXAMPLE



#### ● HIGH ACCURACY

#### ● EASY OPERATION

- Be sure to remove all chips and all from the sensor plate and the base of the HP-50E as well as from the workpiece and tool.
- To move the tool approaching the sensor plate slowly.
- When touching, the "LED" turns on immediately and "H" is just 50.00 mm.(or2")
- LED will not function if batteries are not set in correctly.
- Designed to be used on ferrous.

ORDER NO.	H	STYLE	WEIGHT(kg) N.W.	CODE NO.
HP-50EM	50mm	WITH MAGNETIC BASE	0.32	3403-032
HP-100EM	100mm		1.0	3403-033

### Stainless Steel Base With Magnet

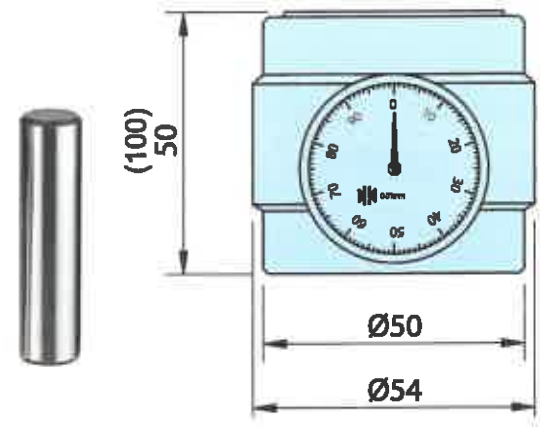
TOOL PRE-SETTER FOR MACHINING CENTERS.  
CNC & STANDARD MILLING MACHINES AND  
CNC & STANDARD LATHES



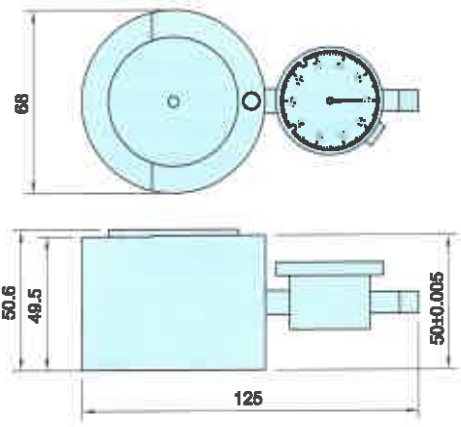
HP-50A



HP-100AM



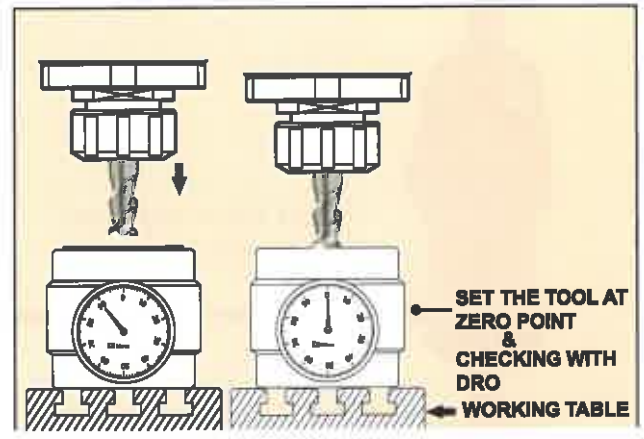
HP-50B



Z-ZERO-SETTER

- Have the central measuring part of the zero setter presetter against a plain surface and aligned if with the outer reference surface. Turn the dial gauge for zero setting. Have the cutter touched against the z zero setter.
- Once the indicator position at zero, the distance between the tool tip to workpiece is 50mm,  $\pm 0.005$ , 100 mm,  $\pm 0.005$ .

### EXAMPLE



ORDER NO.	H	STYLE	WEIGHT (kg)	CODE NO.
HP-50A	50mm	STANDARD TYPE	1.1	3403-020
HP-50B			1.7	3403-021
HP-50AM		WITH MAGNETIC BASE	1.2	3403-022
HP-50BM			1.7	3403-023
HP-100A	100mm	STANDARD TYPE	1.78	3403-024
HP-100AM		WITH MAGNETIC BASE	1.77	3403-025

NEW



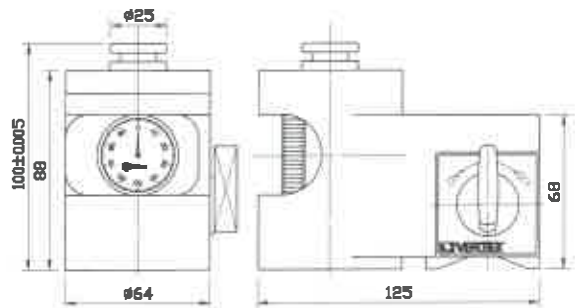


# Height Presetter (For Machining Center)



ORDER NO.HP-100 CODE NO.3403-010

Height from reference surface	WEIGHT(kgs)
100mm	2.6



WITH CHECKING GAUGE

- Locate the height presetter on a place suitable for a reference surface of work piece.
- Apply the cutter on the measuring surface and slowly lower the Z-axis. Then, cutter gets near to the measuring position.
- A distance from the reference surface to the tool tip can be measured easily and precisely so that this presetter is most suitable not only for machining centers but for NC lathes and NC milling machines.

\* Magnetic base function can be used in vertical position & horizontal position.

\* HEIGHT:100mm±0.005 , 1 scale 0.01mm



# Centering Indicator

ORDER NO.VCI-170 CODE NO.3402-130



(WITH STOP BAR FOR FIXING THE HEAD)

- RPM Within 800.
- Use for Internal or External.
- Use for Vertical or Horizontal.
- While Spindle Rotates, With Stop bar for Fixing The Head The Centering Indicator Always faces the operator.

SHANK	ø10	mm
LENGTH	170	mm
INTERNAL	ø4~ø108	mm
EXTERNAL	ø0~ø108	mm
MIN. INDICATOR	0.01	mm
INDICATOR RANGE	0~6	mm
WEIGHT	0.8 kgs	

# Reversible Tapping Attachment for Drilling & Milling Machine

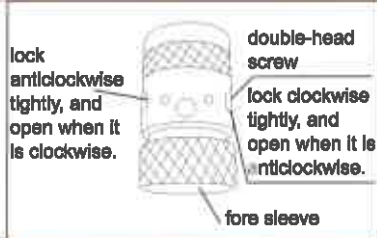
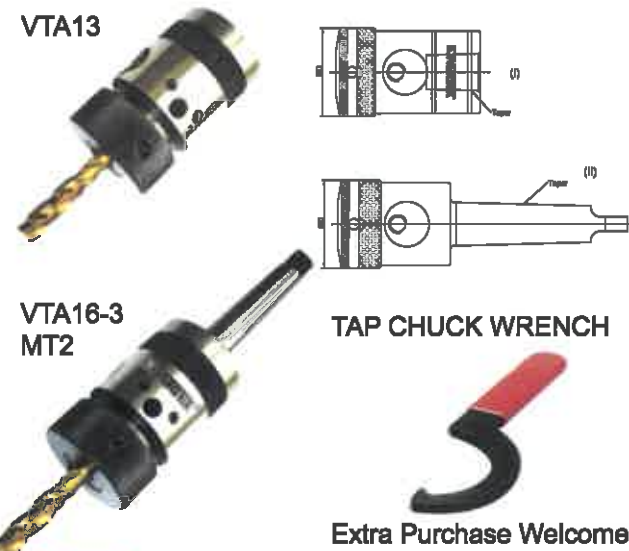


ORDER NO.	TAPPING CAPACITY	SHANK	TO WORK WITH DRILLING MACHINE	WEIGHT (KG)	PACKING mm	SPEED	CODE NO.
K1-1/2	Ø3-8mm	1/2"	DRILLING MACHINE MUST EQUIPPED WITH DRILL CHUCK CAPACITY 13M/M	0.8	90X90X190	1 : 1	3404-001
K1-MT-2	Ø3-8mm	MT-2	DRILLING MACHINE MUST EQUIPPED WITH MT-2 HOLE	1	90X90X240	1 : 1	3404-002
K2-1/2	Ø5-10mm	1/2"	DRILLING MACHINE MUST EQUIPPED WITH DRILL CHUCK CAPACITY 13M/M	1.5	100X100X210	1 : 1	3404-003
K2-MT-2	Ø5-10mm	MT-2	DRILLING MACHINE MUST EQUIPPED WITH MT2 HOLE	1.6	100X100X260	1 : 1	3404-004
K3-MT-3	Ø6-14mm	MT-3	OTHERS LIKE MT-3 SHANK BORING HOLE DRILLING MACHINE N.T. AVAILABLE	3.1	125X125X300	1 : 1	3404-005
K4-MT-3	Ø12-22mm	MT-3	OTHERS LIKE MT-3 SHANK BORING HOLE DRILLING MACHINE N.T. AVAILABLE	5.4	160X160X360	1 : 1	3404-006

TAPPING ATTACHMENT

K1 TYPE USED CHUCK TO FIX THE TAP  
 K2, K3, K4 TYPE USED THE SLIDING PLATE OF THE SQUARE SHARP HOLE TO FIX THE TAP.

## Tap Chuck Series



- THE DESIGN CAN PREVENT THE TAPS CHUCK FROM LOOSENING AFTER TAPPING.
- SUIT FOR VARIOUS TAPS. LARGE TAPPING CAPACITY. HIGH POWER TORSION.

ORDER NO.	TAPPING CAPABILITY		D	Taper	N.W (kg)	CODE NO.
	mm	Inch				
VTA13-1 I			43	J6	0.55	3404-000
VTA13-2 I	M3-M12	W1/8"~W1/2"	43	B16	0.76	3404-007
VTA13-3 II			47	MT2	0.76	3404-008
VTA16-1 I			54	J3	1	3404-016
VTA16-2 I			54	B18	1	3404-017
VTA16-3 II	M3-M16	W1/8"~W5/8"	48.5	MT2	0.9	3404-018
VTA16-4 II			48.5	MT3	1.1	3404-019
VTA18-2 II			51	MT2	0.924	3404-019A
VTA18-3 III	M9-M18	W3/8"~W3/4"	51	MT3	1.074	3404-019B

Extra Purchase Welcome.

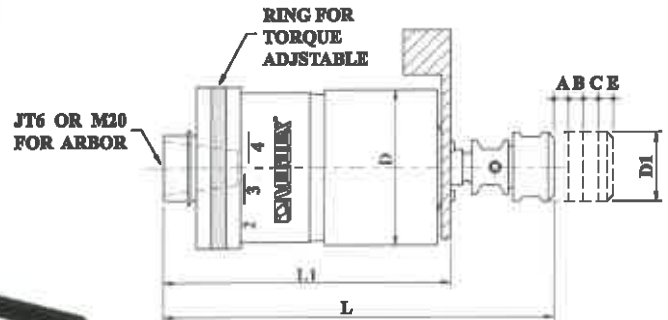
## Drill Tapper



Including shank, full set of collets, wrench and case.  
 (Used for radial drilling, lathe and tapping machines.  
 1 Main body, 6 Tap Collet, 1 Drill Chuck Holder  
 Optional in Collets & Tapper Sleeves.)0.6CUFT.

Unit:mm

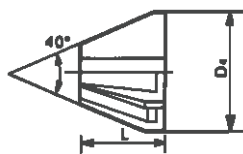
ORDER NO.	STANDARD ASSEMBLY SPECIFICATION				G.W. kg	MEAS. CFT	CODE NO.
	MAIN BODY 1PC/SET	TAP COLLET 6PCS/SET	TAPER SLEEVE 2PCS/SET	DRILL CHUCK HOLDER 1PC/SET			
VDT-33	MT-3	M8, 10, 12, 14, 16,	33-MT1	33-JT6 With 1/2" Drill Chuck	11.9	0.6	3404-010
	MT-4	18, 20, 22, 24, 27, 30, 33(MM)	33-MT2		12		3404-011
	MT-5	1, 1-1/8, 1-1/4(INCH) PT1/8, 1/4, 3/8, 1/2, 3/4, 1(INCH)	33-MT3		12.8		3404-012



- Radial Float is SELF-CENTERING to compensate for hole center misalignment.
- Unique Double Spring Mechanism produces Automatic Feed and Cushion Drive. There are two springs for the feed and two springs for the reversal. Each set gives you double smoothness for ULTRA accurate tapping applications (not possible with this type of tapping head in the past).
- Pre-set Torque Control Permits easy operation of tap brake torque control
- JACOBS RUBBER FLEX COLLETS are standard accessory.

## Reversing Type

ATTACHMENT DESIGNATIONS ORDER NO.	FOR TAPS	SUITABLE ADAPTERS SIZE	REC. MAX SPEED	LENGTH COMPENSATION				D DIA	D1 DIA	L	L1	WEIGHT (kgs)	CODE NO.
				COMP A	EXP. B	EXP. C	EXP. E						
VTA7-JT6	M2-M7	FC-10/FC-11	1500RPM	5	3.5	1.5	7.0	52	23	125.5	94.5	1.3	3404-020
VTA12-JT6	M3-M12	FC-20/FC-21	1000RPM	5	4.5	1.5	8.5	73.5	28	169	122	3.1	3404-021
VTA20-M20	M8-M20	FC-30/FC-31	600RPM	5.5	5	2.0	9.0	91	38	190	128	5.7	3404-022



## Rubber Flex Collet For VTA Tapper

ORDER NO.	COLLETS CAPACITY	D4	L	CODE NO.
FC-10	Ø 2.5 - Ø 4.5	16	11	3404-030
FC-11	Ø 4.5 - Ø 6.5	16	11	3404-031
FC-20	Ø 4 - Ø 7	21.5	13	3404-032
FC-21	Ø 7 - Ø 10	21.5	13	3404-033
FC-30	Ø 5.36 - Ø 9	26.5	15	3404-034
FC-31	Ø 10.38 - Ø 14	26.5	15	3404-035

CONNECTING ARBOR FOR VTA20-M20	
MT3-M20	3404-036A
MT4-M20	3404-037A

ARBOR EXAMPLE :



please see page C43





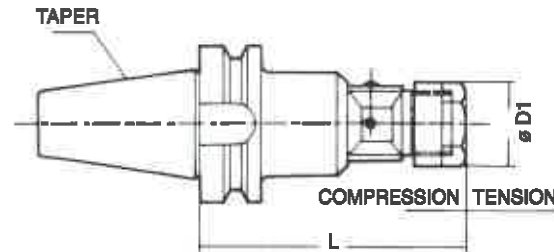
- It's suitable for various taps, so it is much more economic and efficient than other brands of taps chuck.
- The design can prevent the taps chuck from loosening after tapping.

Unit:mm

ORDER NO.	SIZE	TAPPING CAPACITY		Taper Mount NO. DIN or Jacobs	Length (m/m)	Outer Dia. (m/m)	Weight (g)	CODE NO.
		mm	Inch					
VTA-13-11	1/2	M3-M12	1/8-1/2	JT6	75	42	850	3404-056A
VTA-13-12	1/2	M4-M12	1/8-1/2	B16	75	42	585	3404-057A

## Expansible Tapping Holder

Compression Distance 6mm



TAPPING HOLDER

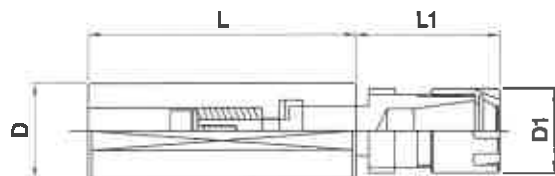
### HOLDER-BT-TYPE

Unit:mm

ORDER NO.	COLLET	HOLDER (DXL)	L	D <sub>1</sub>	TAPPING RANGE	WEIGHT (KGS)	CODE NO.
VET-271	ER20	BT40 20X100	100	34	M2-M16	2.2	3404-026
VET-272	ER20	BT50 20X95	95	34		4	3404-027
VET-273	ER32	BT40 32X110	110	50	M3-M25	2.4	3404-028
VET-274	ER32	BT50 32X110	110	50		4.5	3404-029



WITH SPANNER



### HOLDER-MINI TYPE

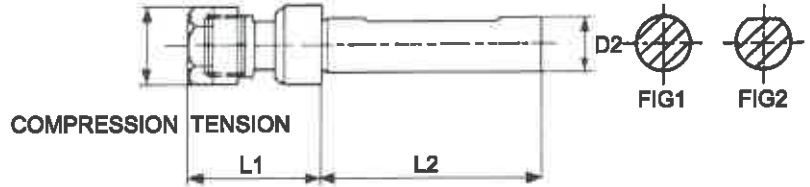
Unit:mm

ORDER NO.	COLLET	HOLDER (DXL)	L <sub>1</sub>	D <sub>1</sub>	TAPPING RANGE	WEIGHT (KG)	CODE NO.
VET-260	ER16	ER16M 20X70	35	22	M3-M10 1/8"-3/8"	0.2	3404-036
VET-261	ER16	ER16M 25X70	35	22		0.2	3404-037



- Floating and expansion design will reduce the differential of motor rotary speed and feeding speed so will extend the life of tap.
- Use ER High Spring Collet, you don't need to worry the few size will delay working, so their value is more than any other tapping system.
- Strong Vise clamping function which is controlled by one screw will keep the outlet which have been controlled by ER collet, so it can auto-center and you own the double lock and save in clamping.
- The series. can be fitted with ER20 collet as optional accessory.

## STRAIGHT SHANK



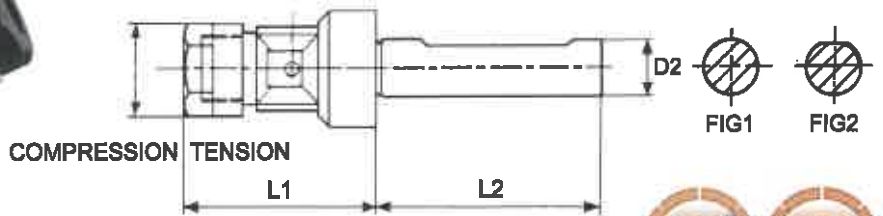
Compression Distance 6mm



## SINGLE HOLDER

Unit:mm

ORDER NO.	COLLET	HOLDER (D <sub>2</sub> XL <sub>2</sub> )	FIG	L <sub>1</sub>	D <sub>1</sub>	TAPPING RANGE	WEIGHT (KG)	CODE NO.
VET-102	ER16	20X80	2	47	28	(1/8"-3/8")	0.4	3404-041



## SINGLE HOLDER

Unit:mm

ORDER NO.	COLLET	HOLDER (D <sub>2</sub> XL <sub>2</sub> )	FIG	L <sub>1</sub>	D <sub>1</sub>	TAPPING RANGE	WEIGHT (KG)	CODE NO.
VET-202	ER20	20X80	2	70	34	M3-M16	1	3404-043
VET-252	ER20	25X80	2	70	34	(1/8"-5/8")	1.2	3404-044
VET-303	ER32	32X100		90	50	(M3-M25) (1/8"-1")	2	3404-045



## SETS TYPE

Unit:mm

ORDER NO.	COLLET	HOLDER (D <sub>2</sub> XL <sub>2</sub> )	SET/PCS	WEIGHT (KG)	CODE NO.
VET-105	ER16	20X80	8	1	3404-046
VET-106	ER16	20X80	10	1.1	3404-047
VET-253	ER20	20X80	10	1.6	3404-048
VET-254	ER20	20X80	12	1.7	3404-049

**SPECIAL!**

**SAFETY!  
QUICK!**

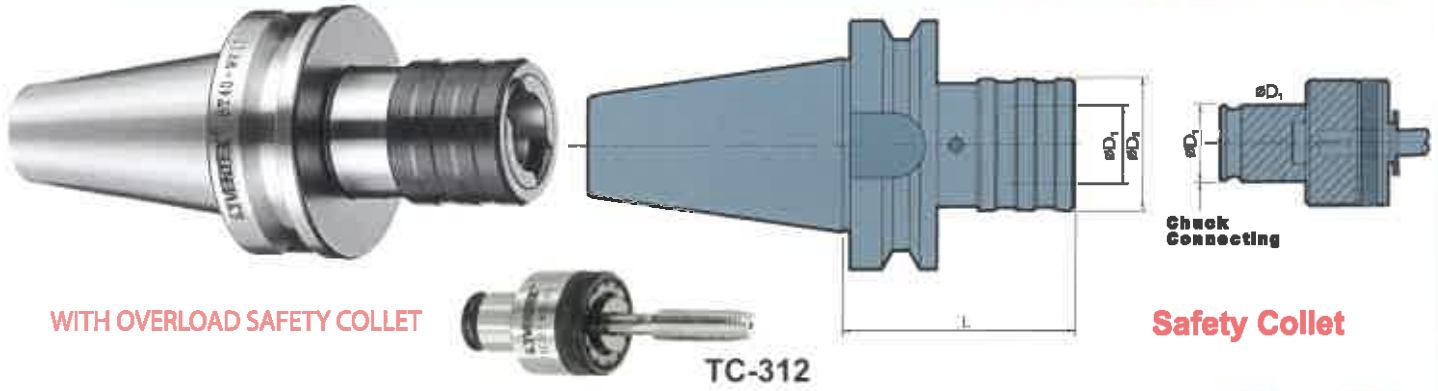


TAPPING CHUCKS

**QUICK CHANGE TAPPING CHUCKS (with length compensation)**  
**MAS-BT-30, 40, 50 Shank / DIN69871A SK-40, 50 / ST-20, 32 / MT-2, 3, 4**

- Tension and compression feature allows taps to follow their own thread lead.
- With extreme light compression compression and tension operated by ball cage.

# Quick Change Tapping Chucks



WITH OVERLOAD SAFETY COLLET

TC-312

Safety Collet

- Tension and compression feature allows taps to follow their own thread lead.
- With extreme light compensation compression and tension operated by ball cage.

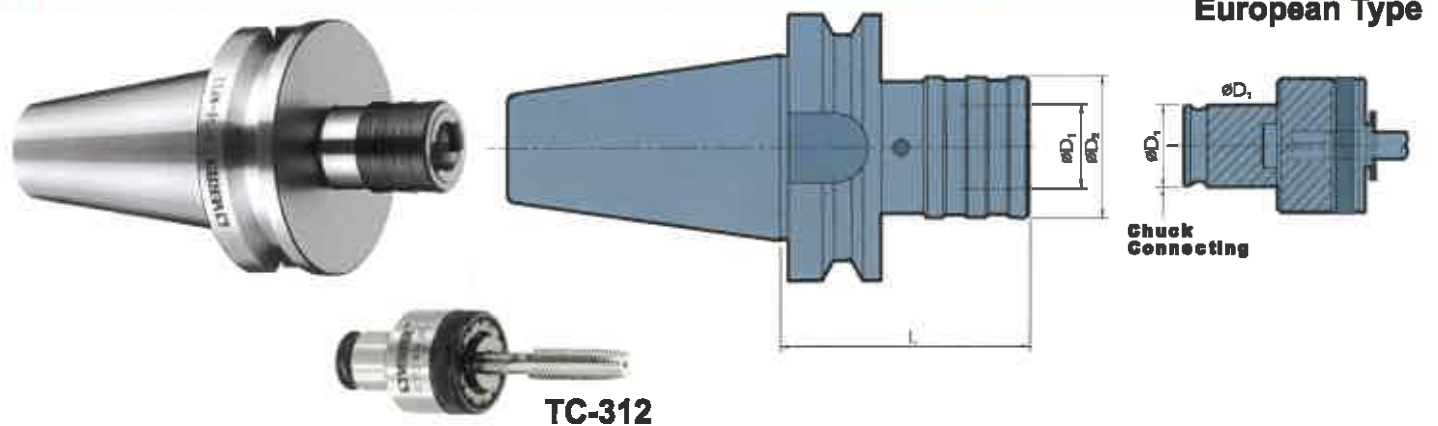


## WF-BT30/BT40/SK30/SK40 LENGTH COMPENSATION TYPE

ORDER NO.	Thread Size	L	ØD <sub>1</sub> Chuck Connecting DIA.	ØD <sub>2</sub>	Length Compensation		Tapping Collets	WEIGHT (kg)	CODE NO.
					Compression	Tension			
BT30-WF12	M2-M14	70	Ø19	36	7.5	7.5	TC-312	0.8	3404-050A
BT40-WF12	M2-M14	75	Ø19	36	7.5	7.5	TC-312	1.3	3404-050
SK40-WF12								1.3	3404-051
BT30-WF20	M5-M24	94	Ø31	53	12.5	12.5	TC-820	1.3	3404-052A
BT40-WF20	M5-M24	95	Ø31	53	12.5	12.5	TC-820	1.8	3404-052
SK40-WF20	M5-M24	95	Ø32	53	12.5	12.5	TC-820	1.8	3404-053

※Tapping Collet Reducer Adapter : TC820 / TC312-AD

# Quick Change Tapping Chucks



European Type

TC-312

WITH OVERLOAD SAFETY COLLET

- Tension and compression feature allows taps to follow their own thread lead.
- With extreme light compensation compression and tension operated by ball cage.



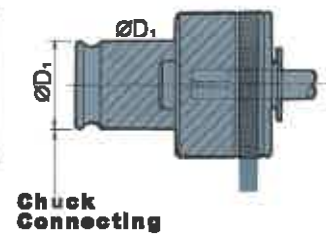
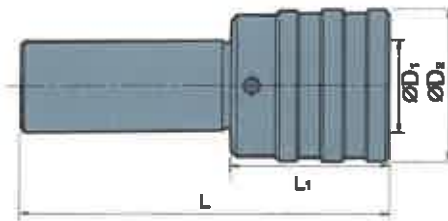
## WF-BT50/SK50 LENGTH COMPENSATION TYPE

ORDER NO.	Thread Size	L	ØD <sub>1</sub> Chuck Connecting DIA.	ØD <sub>2</sub>	Length Compensation		Collets	WEIGHT (kg)	CODE NO.
					Compression	Tension			
BT50-WF12	M2-M14	85	Ø19	36	7.5	7.5	TC-312	4	3404-060
SK50-WF12								4	3404-061
BT50-WF20	M5-M24	105	Ø31	53	12.5	12.5	TC-820	4.1	3404-062
SK50-WF20								4.1	3404-063
BT50-WF33	M14-M36	142	Ø48	78	20	20	TC-1433	5.8	3404-064

※Tapping Collet Reducer Adapter : TC820 / TC312-AD TC1433 / TC820-AD

# Quick Change Tapping Chucks VERTEX®

**QUICK CHANGE TAPPING CHUCKS (with length compensation)  
STRAIGHT SHANK**



WITH OVERLOAD SAFETY COLLET



TC-312

- Tension and compression feature allows taps to follow their own thread lead.
- With extreme light compensation compression and tension operated by ball cage.



TAPPING CHUCKS

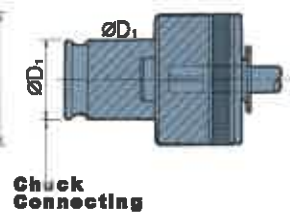
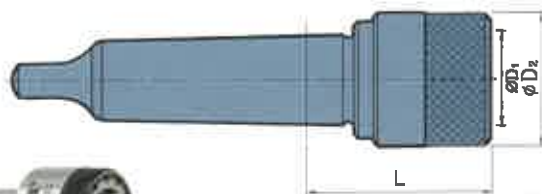
## WF-ST LENGTH COMPENSATION TYPE

ORDER NO.	Thread Size	L	L1	ØD1 Chuck Connecting DIA.	ØD2	Length Compensation		Collets	WEIGHT (kg)	CODE NO.
						Compression	Tension			
ST20-WF12	M2-M14	105	40	Ø19	36	7.5	7.5	TC-312	0.4	3404-087
ST32-WF12				Ø31						
ST20-WF20	M5-M24	120	65	Ø31	53	12.5	12.5	TC-820	1	3404-089
ST32-WF33	M14-M36	183	80	Ø48	78	20	15	TC-1433	2.7	3404-092

※Tapping Collet Reducer Adapter : TC820 / TC312-AD TC1433 / TC820-AD

# Quick Change Tapping Chucks

**Solid Type**



WITH OVERLOAD SAFETY COLLET



TC-312

- Tension and compression feature allows taps to follow their own thread lead.
- With extreme light compensation compression and tension operated by ball cage.



## WF-MT LENGTH COMPENSATION TYPE

ORDER NO.	Thread Size	Morse Taper MT	L	ØD1 Chuck Connecting DIA.	ØD2	Length Compensation		Collets	WEIGHT (kg)	CODE NO.		
						Compression	Tension					
MT2-WF12	M2-M14	MT2	47.5	Ø19	36	7.5	7.5	TC-312	0.4	3404-123		
MT3-WF12		MT3									0.56	3404-123A
MT4-WF12		MT4									0.86	3404-123B
MT2-WF20	M5-M24	MT2	70	Ø31	53	12.5	12.5	TC-820	0.8	3404-124		
MT3-WF20		MT3									0.96	3404-124A
MT4-WF20		MT4									1.5	3404-124B
MT3-WF33	M14-M36	MT3	103	Ø48	78	20	15	TC-1433	2.2	3404-125		
MT4-WF33		MT4									2.76	

※Tapping Collet Reducer Adapter : TC820 / TC312-AD TC1433 / TC820-AD

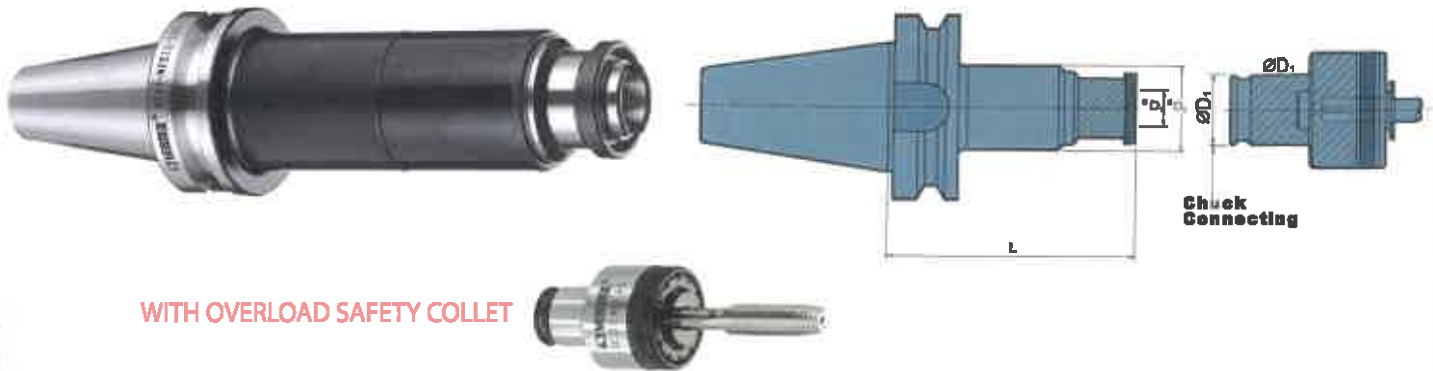


# Quick Change Tapping Chucks VERTEX

QUICK CHANGE TAPPING CHUCKS (with length compensation)

MAS-BT SHANK / DIN69871A SHANK

- Tension and compression feature allows taps to follow their own thread lead.



TC-312



## WFE-BT40 LENGTH COMPENSATION TYPE

ORDER NO.	Thread Size	L	ØD1 Chuck Connecting DIA.	ØD2	Length Compensation		Collets	WEIGHT (kg)	CODE NO.
					Compression	Tension			
BT40-WFE12-135	M2-M14	135	Ø19	46	15	20	TC-312	1.5	3404-070
BT40-WFE12-165		165						2.4	3404-072

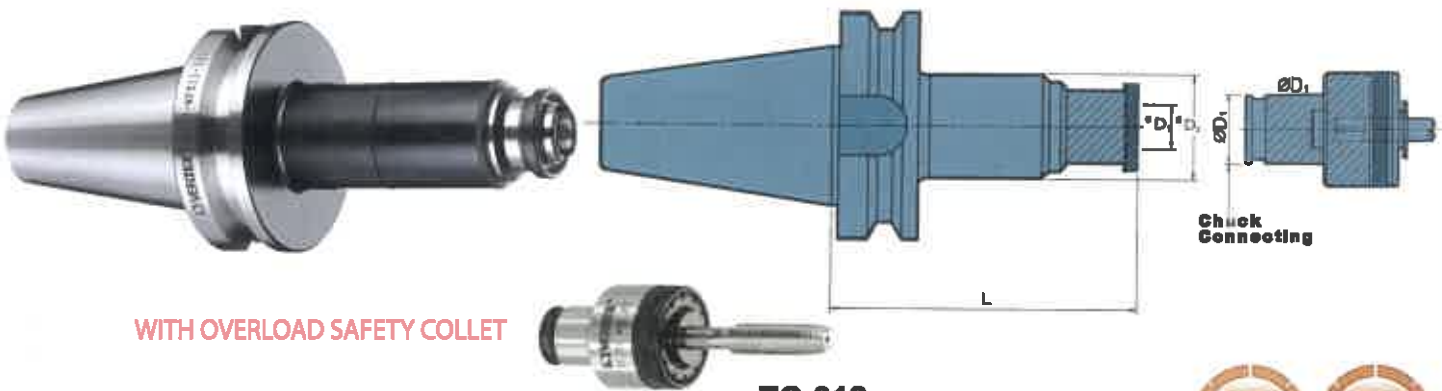
※Tapping Collet Reducer Adapter : TC820 / TC312-AD TC1433 / TC820-AD

# Quick Change Tapping Chucks

QUICK CHANGE TAPPING CHUCKS (with length compensation)

MAS-BT SHANK / DIN69871A SHANK

- Tension and compression feature allows taps to follow their own thread lead.



TC-312



## WFE-BT50 LENGTH COMPENSATION TYPE

ORDER NO.	Thread Size	L	ØD1 Chuck Connecting DIA.	ØD2	Length Compensation		Collets	WEIGHT (kg)	CODE NO.
					DIA.	Tension			
BT50-WFE12-135	M2-M14	135	Ø19	46	15	20	TC-312	4.54	3404-080
BT50-WFE12-165		165						4.94	3404-082
BT50-WFE20-165	M5-M24	165	Ø31	58	15	15	TC-820	7	3404-084

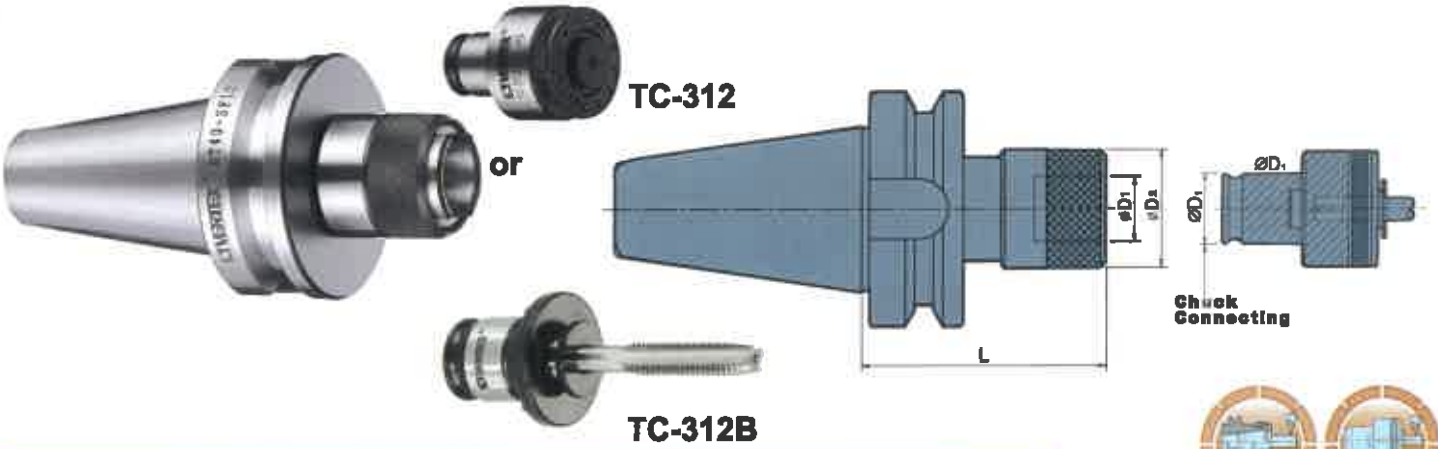
※Tapping Collet Reducer Adapter : TC820 / TC312-AD TC1433 / TC820-AD

# Quick Change Tapping Chucks

**MSA-BT SHANK & DIN 69871A SHANK**

**Solid Type**

- No tension or compensation stroke for use in synchronous tapping (rigid tapping) cycle.



## BT40-SF- RIGID TAPPING TYPE , NO LENGTH COMPENSATION

ORDER NO.	Thread Size	L	$\varnothing D_1$ Chuck Connecting DIA.	$\varnothing D_2$	Collets	WEIGHT (kg)	CODE NO.
BT40-SF12	M2-M14	72	$\varnothing 19$	34	TC-312 TC-312B	1	3404-100
BT40-SF20	M5-M24	91	$\varnothing 31$	50	TC-820 TC-820B	1.4	3404-102
BT40-SF33	M14-M36	130	$\varnothing 48$	74	TC-1433 TC-1433B	3.5	3404-104

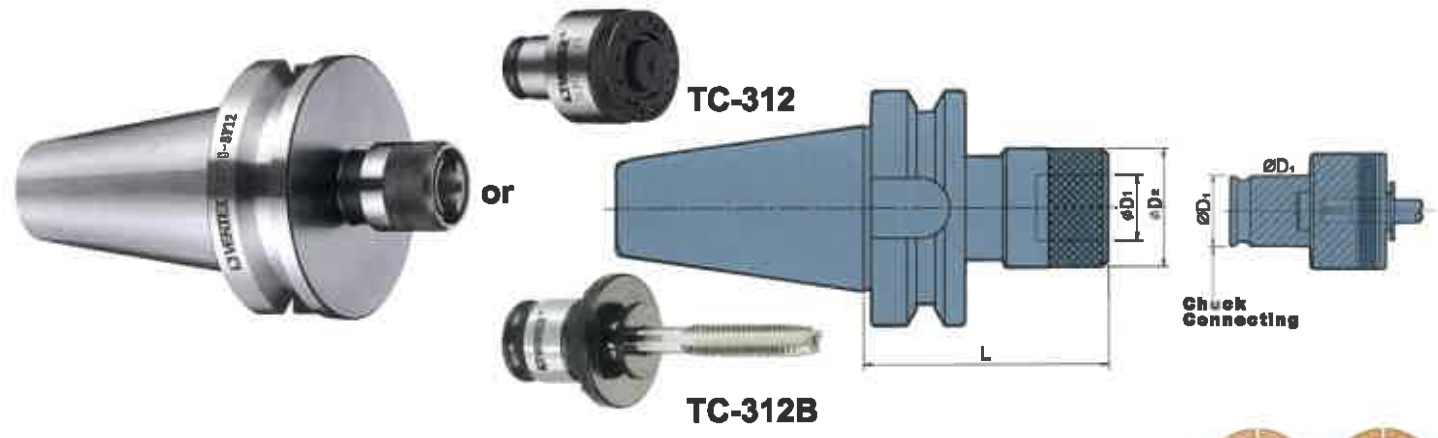
※Tapping Collet Reducer Adapter : TC820 / TC312-AD TC1433 / TC820-AD

# Quick Change Tapping Chucks

**MSA-BT SHANK & DIN 69871A SHANK**

**Solid Type**

- No tension or compensation stroke for use in synchronous tapping (rigid tapping) cycle.



## BT50-SF- RIGID TAPPING TYPE, NO LENGTH COMPENSATION

ORDER NO.	Thread Size	L	$\varnothing D_1$ Chuck Connecting DIA.	$\varnothing D_2$	Collets	WEIGHT (kg)	CODE NO.
BT50-SF12	M2-M14	78	$\varnothing 19$	34	TC-312 TC-312B	3.6	3404-110
BT50-SF20	M5-M24	95	$\varnothing 31$	50	TC-820 TC-820B	4	3404-112
BT50-SF33	M14-M36	142	$\varnothing 48$	74	TC-1433 TC-1433B	5.6	3404-116

※Tapping Collet Reducer Adapter : TC820 / TC312-AD TC1433 / TC820-AD

TAPPING CHUCKS



# Quick Change Tapping Chucks

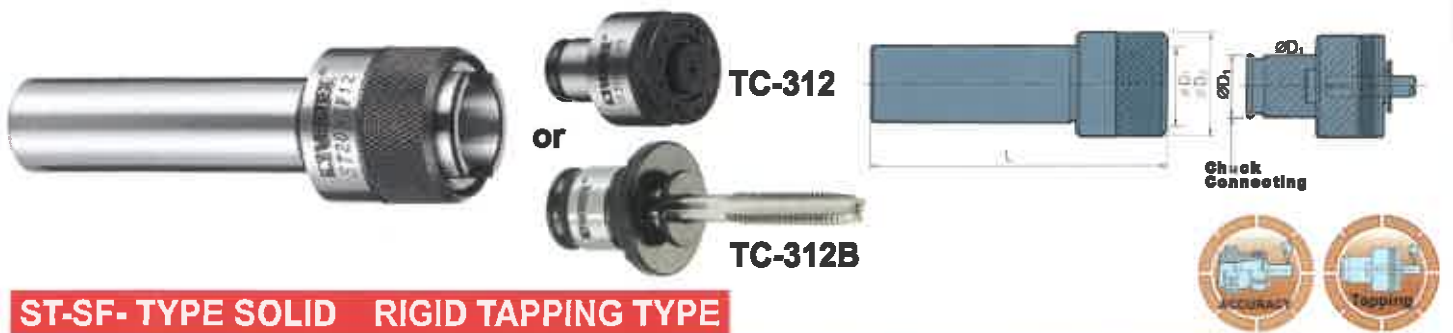


## QUICK CHANGE TAPPING CHUCKS

Solid Type

### MORSE TAPER SHANK

- Tension and compression feature allows taps to follow their own thread lead.
- With extreme light compensation compression and tension operated by ball cage.



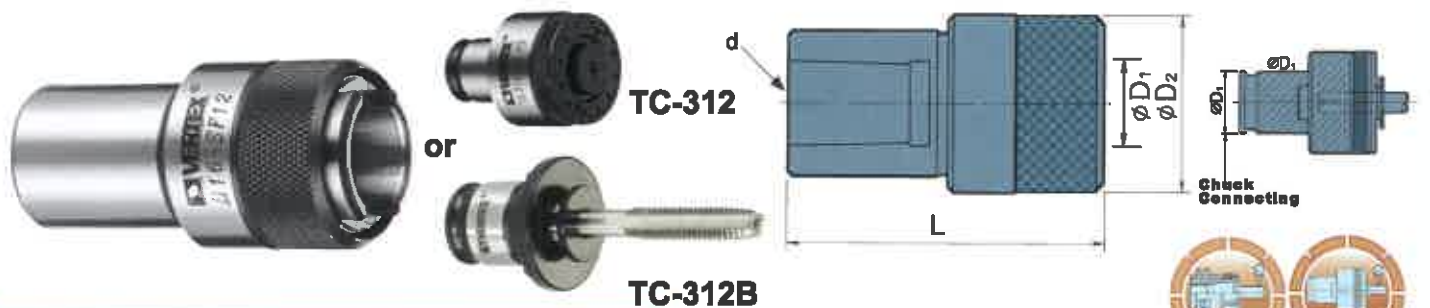
### ST-SF- TYPE SOLID RIGID TAPPING TYPE

ORDER NO.	Thread Size	L	L1	ØD1 Chuck Connecting DIA.	ØD2	Collets	WEIGHT (kg)	CODE NO.
ST20-SF12	M2-M14	104	70	Ø19	34	TC-312	0.3	3404-140
ST32-SF12		106		Ø31		TC-312B	0.66	3404-140A
ST20-SF20	M5-M24	105		Ø31	50	TC-820	0.74	3404-141
ST32-SF20				Ø31		TC-820B	1.02	3404-141A
ST32-SF33	M14-M36	169		Ø31	76	TC-1433 TC-1433B	2.86	3404-142A



### MT-SF- TYPE SOLID RIGID TAPPING TYPE, NO LENGTH COMPENSATION

ORDER NO.	Thread Size	Morse Taper MT	L	ØD1 Chuck Connecting DIA.	ØD2	Collets	WEIGHT (kg)	CODE NO.
MT2-SF12	M2-M14	MT2	45	Ø19	34	TC-312 TC-312B	0.3	3404-120
MT3-SF12		MT3					0.8	3404-120A
MT4-SF12		MT4	46				0.8	3404-120B
MT2-SF20	M5-M24	MT2	70	Ø31	50	TC-820 TC-820B	0.6	3404-121A
MT3-SF20		MT3					0.8	3404-121
MT4-SF20		MT4	75				1.18	3404-121B
MT3-SF33	M14-M36	MT3	99	Ø48	74	TC-1433 TC-1433B	0.84	3404-122A
MT4-SF33		MT4	99				2.2	3404-122



### JTA-SF- B16-SF RIGID TAPPING TYPE

ORDER NO.	Thread Size	L	ØD1 Chuck Connecting DIA.	ØD2	d	Collets	WEIGHT (kg)	CODE NO.
JTA6-SF12	M2-M14	66	Ø19	32	JT6	TC-312 TC-312B	0.3	3404-130
B16-SF12					B16		0.22	3404-130A
B12-SF12		61			B12		0.2	3404-130B

※Tapping Collet Reducer Adapter : TC820 / TC312-AD TC1433 / TC820-AD

# Quick Change Tapping Chucks Set

Shank with length compensation

European Type

**NEW**



- Tension and compression feature allows taps to follow their own thread lead.
- With extreme light compensation compression and tension operated by ball cage.



SET TYPE BT-WF  
SHANK WITH 7 PCS/SET OVERLOAD CLUTCH  
TAPPING COLLET DIN, ISO & JIS SYSTEMS:  
PLEASE SEE PAGE 119.

Collets Size	
TC-312	M3, M4, M5, M6, M8, M10, M12
TC-820	M8, M10, M12, M14, M16, M18, M20

Please inform the collet size when ordering.  
Please use following page as reference for collet size.



TAPPING CHUCKS

## SETS

ORDER NO.	Shank Size	Thread Size	L	ØD1	ØD2	Length Compensation		Collets	PCS/SET	CODE NO.
						Compression	Tension			
VQT-312	BT-30-WF12	M3-M12	70	19	36	7.5	7.5	TC-312	7PCS	3404-190
VQT-320	BT-30-WF20	M8-M20	105	32	53	12.5	12.5	TC-820	7PCS	3404-191
VQT-412	BT-40-WF12	M3-M12	75	19	36	7.5	7.5	TC-312	7PCS	3404-192
VQT-420	BT-40-WF20	M8-M20	95	32	53	12.5	12.5	TC-820	7PCS	3404-193
VQT-512	BT-50-WF12	M3-M12	85	19	36	7.5	7.5	TC-312	7PCS	3404-194
VQT-520	BT-50-WF20	M8-M20	105	32	53	12.5	12.5	TC-820	7PCS	3404-195

# Quick Change MT Tapping Chuck Set

With Overload Clutch

**NEW**



- Tension and compression feature allows taps to follow their own thread lead.
- With extreme light compensation compression and tension operated by ball cage.

SET TYPE MT-SF  
SHANK WITH 7 PCS/SET OVERLOAD CLUTCH  
TAPPING COLLET DIN, ISO & JIS SYSTEMS:  
PLEASE SEE PAGE 119.

Collets Size	
TC-312	M3, M4, M5, M6, M8, M10, M12
TC-820	M8, M10, M12, M14, M16, M18, M20

Please inform the collet size when ordering.  
Please use following page as reference for collet size.



## SETS

ORDER NO.	Shank Size	Thread Size	L	ØD2	Collets	PCS/SET	CODE NO.
VQT-712	MT3-SF12	M3-M12	39	32	TC-312	7PCS	3404-196
VQT-812	MT4-SF12	M3-M12	34	32	TC-312	7PCS	3404-197
VQT-720	MT3-SF20	M8-M20	59	50	TC-820	7PCS	3404-198
VQT-820	MT4-SF20	M8-M20	55	50	TC-820	7PCS	3404-199

# Tapping Collet Reducer Adapter



This adapter is for transforming  
This adapter allows the tapping chuck to use smaller size.  
Transforming the big tapping size to smaller one.  
large range type for tap M3-M24, TC312, TC820, TC1433  
COST SAVING!

## SIZE CONVERTER

ORDER NO.	TRANSFORMING SIZE	WIGHT	CODE NO.
TC820/TC312-AD	TC820 TO TC312	0.2	3404-461
TC1433/TC820-AD	TC1433 TO TC820	0.6	3404-462

\*Every tap needs a match size tapping collet.

# Adjustable Wrenches

For Tapping Collet's Torque Force Adjustment



- Tool for Setting
- Time Saving



EXAMPLE



ORDER NO.	SIZE	ØD	COLLETS	WEIGHT	CODE NO.
VWR-40	7-40	2.5	TC-312 / TC-820	0.15 kgs	3404-150
VWR-60	11-60	4	TC1433	0.15 kgs	3404-151

# Quick Change Tapping Collet TC312 8PCS/SET

ORDER NO. TC-312-DIN371-A CODE NO. 3404-175



**QUICK CHANGE TAP COLLETS**  
(with overload safety collet)

TC-312 DIN371 8PCS/SET  
(M1, M2, M3, M3.5, M4, M4.5, M8, M10)

NO.	ØD X □ SIZE SAME AS DIN371 TC312
1	M1, M1.1~M1.8
2	M2, M2.5, M2~M2.5
3	M3
4	M3.5
5	M4
6	M4.5, M5, M6
7	M8
8	M10

# Quick Change Tapping Collet TC312 8PCS/SET

ORDER NO. TC-312-DIN376-B CODE NO. 3404-176



**QUICK CHANGE TAP COLLETS**  
(with overload safety collet)

TC-312 DIN376 8PCS/SET  
(M4, M5, M6, M7, M8, M10, M12, M14)

NO.	ØD X □ SIZE SAME AS DIN376 TC312
1	M4
2	M5, M4.5
3	M6
4	M7
5	M8
6	M10
7	M12
8	M14

# Quick Change Tapping Collet TC820 8PCS/SET

ORDER NO. TC820-DIN 376-C

CODE NO. 3404-177

**NEW**

**QUICK CHANGE TAP COLLETS  
(with overload safety collet)**



**TC-820 DIN376 8PCS/SET  
(M8, M10, M12, M14, M16, M18, M20, M22)**

NO.	ØD X □	SIZE SAME AS DIN376 TC820
1	M8	
2	M10	
3	M12	
4	M14	
5	M16	
6	M18	
7	M20	
8	M22, M24	

# Quick Change Tapping Collet TC820 4PCS/SET

ORDER NO. TC820-DIN 371-D

CODE NO. 3404-178

**NEW**

**QUICK CHANGE TAP COLLETS  
(with overload safety collet)**



**TC-820 DIN371 4PCS/SET  
(M5, M6, M8, M10)**

NO.	ØD X □	SIZE SAME AS DIN371 TC820
1	M5, M6	
2	M6, M5	
3	M8	
4	M10	

# Quick Change Tapping Collet TC820 8PCS/SET

ORDER NO. TC820-ISO2283-E

CODE NO. 3404-179

**NEW**

**QUICK CHANGE TAP COLLETS  
(with overload safety collet)**



**TC-820 ISO2283 8PCS/SET  
(M8, M10, M12, M14, M16, M18, M22, M24)**

NO.	ØD X □	SIZE SAME AS ISO2283 TC820
1	M8	
2	M10	
3	M12	
4	M14	
5	M16	
6	M18, M20	
7	M22	
8	M24	

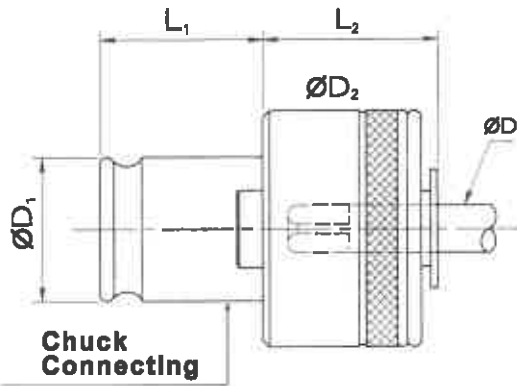
TAPPING CHUCKS



# Quick Change Tapping Collet



**QUICK CHANGE TAP COLLETS**  
(with overload safety collet)



CHUCK SUIT FOR DIA. ØD1  
 TC-312,312B IS Ø19 MM  
 TC-820,820B IS Ø31 MM  
 TC-1433,1433B IS Ø48 MM

- Torque is factory-set to protect the tap. Small adjustments can be made by a trained user to accommodate tap strength and material variations.
- Collet stops driving when set torque is exceeded.
- Every tap needs a match size tapping collet.
- ØD1 is chuck suit for dia.

### Tapping Collet Reducer / Adapter

This adapter is for transforming  
 This adapter allows the VAT-tapping spindle to use smaller size.  
 Transforming the big tapping size to smaller one.

Large range type for tap M3-M24,  
 TC312, TC820, TC1433  
 COST SAVING!  
 Please see the page C118



## Connecting Size List

**QUICK CHANGE TAP COLLETS**  
(with overload safety collet)



**JIS SYSTEM SIZE** ※ORDER NO. SAME COLOR ARE INTER-CHANGEABLE

1PC≒0.18kg

Size	Thread	Tap Shank		Ø D1	L1	L2	ORDER NO.	CODE NO.	ØD x □ Size same as JIS Inch or mm
		ØD	□						
TC 312 (#1)	M2	3	2.5	Suit for DIA. 19	22	25	312-00	3404-200A	
	M3	4	3.2				312-01	3404-200	W1/8"
	M4	5	4				312-02	3404-201	M4.5
	M5	5.5	4.5				312-03	3404-202	M5.5, W3/16"
	M6	6	4.5				312-04	3404-203	W1/4", UNC1/4"
	M7	6.2	5				312-05	3404-204	M8
	M8	6.2	5				312-06	3404-205	M7
	M9	7	5.5				312-07	3404-206	M10, W3/8", UNC3/8"
	M10	7	5.5				312-08	3404-207	M9, W3/8", UNC3/8"
	M11	8	6				312-09	3404-208	W7/16", PT1/8", PS1/8", PF1/8", UNC7/16"
	M12	8.5	6.5				312-10	3404-209	
	•M14	10.5	8				•312-11	3404-210	M15, W9/16", UNC9/16"
	•M15	10.5	8				•312-12	3404-211	M14, W9/16", UNC9/16"
	UNC 1/4	6	4.5				312-13	3404-212	M6, W1/4"
	UNC 5/16	6.1	5				312-14	3404-213	
	UNC 3/8	7	5.5				312-15	3404-214	M9, M10, W3/8"
	UNC 7/16	8	6				312-16	3404-215	M11, W7/16", PT1/8", PS1/8", PF1/8"
	UNC 1/2	9	7				312-17	3404-216	W1/2"
	•UNC 9/16	10.5	8				•312-18	3404-217	M14, M15, W9/16"
	PT 1/8	8	6				312-19	3404-218	M11, W7/16, PS1/8", PF1/8", UNC7/16"
PT 1/4	11	9	312-20	3404-219	PS1/4, PF1/4				

# Matching Size List



## JIS SYSTEM SIZE

※ORDER NO. SAME COLOR ARE INTER-CHANGEABLE

1PC±0.6kg

Size	Thread	Tap Shank		ØD1	L1	L2	ORDER NO.	CODE NO.	ØD x □ Size same as JIS Inch or mm
		ØD	□						
TC 820 (#2)	M5 / M5.5	5.5	4.5	Suit for DIA. 31	36	30.5	820-00	3404-229	M5.5, W3/16"
	M6	6	4.5				820-00A	3404-228	W1/4", UNC1/4"
	M7	6.2	5				820-01	3404-230	M8
	M8	6.2	5				820-02	3404-231	M7
	M9	7	5.5				820-03	3404-232	M10, W3/8", UNC3/8"
	M10	7	5.5				820-04	3404-233	M9, W3/8", UNC3/8"
	M11	8	6				820-05	3404-234	W7/16", UNC7/16", PT1/8", PS1/8", PF1/8"
	M12	8.5	6.5				820-06	3404-235	
	M14	10.5	8				820-07	3404-228	M15, W9/16", UNC9/16"
	M15	10.5	8				820-08	3404-237	M14, W9/16", UNC9/16"
	M16	12.5	10				820-09	3404-238	
	M17	13	10				820-10	3404-239	
	M18	14	11				820-11	3404-240	W3/4", PT3/8", PS3/8", PF3/8", UNC3/4"
	M20	15	12				820-12	3404-241	
	M22	17	13				820-13	3404-242	W7/8", UNC7/8"
	UNC 3/16	7	5.5				820-14	3404-243	M9, M10, W3/8"
	UNC 7/16	8	6				820-15	3404-244	M11, W7/16", PT1/8", PS1/8", PF1/8"
	UNC 1/2	9	7				820-16	3404-245	W1/2"
	UNC 9/16	10.5	8				820-17	3404-246	M14, M15, W9/16"
	UNC 5/8	12	9				820-18	3404-247	W5/8"
	UNC 7/8	14	11				820-19	3404-248	M18, W3/4", PT3/8", PS3/8", PF3/8"
	UNC 1 1/8	17	13				820-20	3404-249	M22, W7/8"
	PT 1/8	8	6				820-21	3404-250	M11, W7/16", UNC7/16", PS1/8", PF1/8"
	PT 1/4	11	9				820-22	3404-251	PS1/4", PF1/4"
	PT 3/8	14	11				820-23	3404-252	M18, W3/4", PS3/8", PF3/8", UNC3/4"
PT 1/2	18	14	820-24	3404-253	PS1/2", PF1/2"				
M24	19	15	820-25	3404-254	M25, PF5/8"				

TAPPING CHUCKS

## JIS SYSTEM SIZE

※ORDER NO. SAME COLOR ARE INTER-CHANGEABLE

1PC±1.8kg

Size	Thread	Tap Shank		ØD1	L1	L2	ORDER NO.	CODE NO.	ØD x □ Size same as JIS Inch or mm
		ØD	□						
TC 1433 (#3)	M14	10.5	8	Suit for DIA. 48	56	45	1433-01	3404-260	M15, W9/16", UNC9/16"
	M15	10.5	8				1433-02	3404-261	M14, W9/16", UNC9/16"
	M16	12.5	10				1433-03	3404-262	
	M17	13	10				1433-04	3404-263	
	M18	14	11				1433-05	3404-264	W3/4", UNC3/4", PT3/8", PS3/8", PF3/8"
	M20	15	12				1433-06	3404-265	
	M22	17	13				1433-07	3404-266	W7/8", UNC7/8"
	M24	19	15				1433-08	3404-267	M25, PF5/8"
	M25	19	15				1433-09	3404-268	M24, PF5/8"
	M26	20	15				1433-10	3404-269	M27, W1", UNC1"
	M27	20	15				1433-11	3404-270	M26, W1", UNC1"
	M28	21	17				1433-12	3404-271	
	M30	23	17				1433-13	3404-272	PT3/4", PS3/4", PF3/4"
	M32	24	19				1433-14	3404-273	W1-1/4", PF7/8", UNC1-1/4"
	M33	25	19				1433-15	3404-274	
	M34	26	21				1433-16	3404-275	M35, W1-3/8", PT1", PS1", PF1", UNC1-3/8"
	M35	26	21				1433-17	3404-276	M34, W1-3/8", PT1", PS1", PF1", UNC1-3/8"
	M36	28	21				1433-18	3404-277	
	UNC 9/16	10.5	8				V433-19	3404-278	M14, M15, W9/16"
	UNC 5/8	12	9				1433-20	3404-279	
	UNC 3/4	14	11				1433-21	3404-280	M18, W3/4", PT3/8", PS3/8", PF3/8"
	UNC 7/8	17	13				1433-22	3404-281	M22, W7/8"
	UNC 1	20	15				1433-23	3404-282	M26, M27, W1"
	UNC 1 1/8	22	17				1433-24	3404-283	
	UNC 1 1/4	24	19				1433-25	3404-284	M32, W1-1/4", PF7/8"
	UNC 1 3/8	26	21				1433-26	3404-285	M34, M35, W1-3/8", PT1", PS1", PF1"
	UNC 1/4	11	9				1433-27	3404-286	
	PT 3/8	14	11				1433-28	3404-287	M18, W3/4", PT3/8", PS3/8", PF3/8", UNC3/4"
	PT 1/2	18	14				1433-29	3404-288	
	PT 3/4	23	17				1433-30	3404-289	M30, PS3/4", PF3/4"
	PT 1	26	21				1433-31	3404-290	M34, M35, W1-3/8", PS1", PF1", UNC1-3/8"

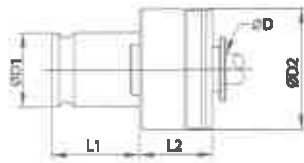




# Quick Change Tapping Collet



※ORDER NO. SAME COLOR ARE INTER-CHANGEABLE



- Torque is factory-set to protect the tap for which a particular collet is designed. Small adjustments can be made by a trained user to accommodate tap strength and material variations.
- Collet stops driving when set torque is exceeded.
- Every tap needs a match size tapping collet.
- ØD1 is chuck suit for dia.

With Overload Safety Collet



## DIN 371 Type

ORDER NO.	Size	TC312 DIN 371 Tap	Tap Shank		Capacity	L1 (m/m)	L2 (m/m)	ØD1 (m/m)	ØD2 (m/m)	CODE NO.	ØD x □ Size same as DIN 371						
			ØD	□													
312-01D	TC 312 DIN 371	M1~M1.8	2.5	2.1	M1~M14	22.5	25	Suit for DIA. 19	32	3404-501							
312-02D		M2~M2.5	2.8	2.1						3404-502	M2, M2.5						
312-02DA		M2	2.8	2.1						3404-502A	M2~M2.5, M2.5						
312-02DB		M2.5	2.8	2.1						3404-502B	M2, M2~M2.5						
312-03D		M3	3.5	2.7						3404-503							
312-04D		M3.5	4.0	3.0						3404-504							
312-05D		M4	4.5	3.4						3404-505							
312-06D		M4.5	6.0	4.9						3404-506	M5, M6						
312-07D		M5	6.0	4.9						3404-507	M4.5, M6						
312-08D		M6	6.0	4.9						3404-508	M4.5, M5						
312-09D		M8	8.0	6.2						3404-509							
312-10D		M10	10.0	8.0						3404-510							
820-01D		TC 820 DIN 371	M5	6.0						4.9	M5~M24	35	30.5	Suit for DIA. 31	50	3404-521	M6
820-02D			M6	6.0						4.9						3404-522	M5
820-03D	M8		8.0	6.2	3404-523												
820-04D	M10		10.0	8.0	3404-524												

## DIN 376 Type

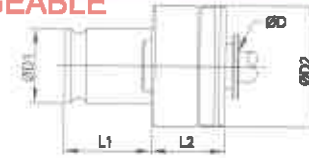
\*Custom-build products are available on request.

ORDER NO.	Size	TC312 DIN 376 Tap	Tap Shank		Capacity	L1 (m/m)	L2 (m/m)	ØD1 (m/m)	ØD2 (m/m)	CODE NO.	ØD x □ Size same as DIN 376						
			ØD	□													
312-21D	TC 312 DIN 376	M3.5	2.5	2.1	M3~M14	22.5	25	Suit for DIA. 19	32	3404-531							
312-22D		M4	2.8	2.1						3404-532							
312-23D		M4.5	3.5	2.7						3404-533	M5						
312-24D		M5	3.5	2.7						3404-534	M4.5						
312-25D		M6	4.5	3.4						3404-535							
312-26D		M7	5.5	4.3						3404-536							
312-27D		M8	6.0	4.9						3404-537							
312-28D		M10	7.0	5.5						3404-538							
312-29D		M12	9.0	7.0						3404-539							
312-30D		M14	11.0	9.0						3404-540							
820-21D		TC 820 DIN 376	M8	6.0						4.9	M8~M24	35	30.5	Suit for DIA. 31	50	3404-551	
820-22D			M10	7.0						5.5						3404-552	
820-23D	M12		9.0	7.0	3404-553												
820-24D	M14		11.0	9.0	3404-554												
820-25D	M16		12.0	9.0	3404-555												
820-26D	M18		14.0	11.0	3404-556												
820-27D	M20		16.0	12.0	3404-557												
820-28D	M22		18.0	14.5	3404-558	M24											
820-29D	M24		18.0	14.5	3404-559	M22											
1433-01D	TC 1433 DIN 376		M14	11.0	9.0	M14~M36	55.5	45	Suit for DIA. 48	72						3404-571	
1433-02D		M16	12.0	9.0	3404-572												
1433-03D		M18	14.0	11.0	3404-573												
1433-04D		M20	16.0	12.0	3404-574												
1433-05D		M22	18.0	14.5	3404-575						M24						
1433-06D		M24	18.0	14.5	3404-576						M22						
1433-07D		M27	20.0	16.0	3404-577												
1433-08D		M30	22.0	18.0	3404-578												
1433-09D		M33	25.0	20.0	3404-579												
1433-10D		M36	28.0	22.0	3404-580												

# Quick Change Tapping Collet



※ORDER NO. SAME COLOR ARE INTER-CHANGEABLE



TC-312

With Overload Safety Collet



## ISO 529/2283 Type

\*Custom-build products are available on request.

ORDER NO.	Size	TC312 ISO 529/2283 Tap	Tap Shank		Capacity	L1 (m/m)	L2 (m/m)	ØD1 (m/m)	ØD2 (m/m)	CODE NO.	ØD x □ Size same as ISO 529
			ØD	□							
312-21I	TC 312 ISO 529/2283	M3	2.24	1.8	M3~M14	22.5	25	Suit for DIA. 19	32	3404-631	M1~M2,M2
312-22I		M3.5	2.5	2.0						3404-632	
312-23I		M4	3.15	2.5						3404-633	
312-24I		M4.5	3.55	2.8						3404-634	
312-25I		M5	4.0	3.15						3404-635	
312-26I		M6	4.5	3.55						3404-636	
312-27I		M7	5.6	4.5						3404-637	
312-28I		M8	6.3	5.0						3404-638	
312-29I		M8	7.1	5.6						3404-639	
312-30I		M10	8.0	6.3						3404-640	
312-31I		M12	9.0	7.1						3404-641	
312-32I		M14	11.2	9.0						3404-642	

ORDER NO.	Size	TC820 ISO 529/2283 Tap	Tap Shank		Capacity	L1 (m/m)	L2 (m/m)	ØD1 (m/m)	ØD2 (m/m)	CODE NO.	ØD x □ Size same as ISO 529 / 2283	ØD x □ Size same as ISO 529
			ØD	□								
820-21I	TC 820 ISO 529/2283	M8	6.3	5.0	M8~M24	35	30.5	Suit for DIA. 31	50	3404-651	M6	
820-22I		M9	7.1	5.6						3404-652		M7
820-23I		M10	8.0	6.3						3404-653		M8
820-24I		M12	9.0	7.1						3404-654		M9
820-25I		M14	11.2	9.0						3404-655		
820-26I		M16	12.5	10.0						3404-656		
820-27I		M18	14.0	11.2						3404-657		M20
820-29I		M20	14.0	11.2						3404-658		M18
820-30I		M22	16.0	12.5						3404-659		
820-31I		M24	18.0	14.0						3404-660		

ORDER NO.	Size	TC1433 ISO 529/2283 Tap	Tap Shank		Capacity	L1 (m/m)	L2 (m/m)	ØD1 (m/m)	ØD2 (m/m)	CODE NO.	ØD x □ Size same as ISO 529 / 2283
			ØD	□							
1433-01I	TC 1433 ISO 529/2283	M14	11.2	9.0	M14~M36	55.5	45	Suit for DIA. 48	72	3404-671	M20
1433-02I		M16	12.5	10.0						3404-672	
1433-03I		M18	14.0	11.2						3404-673	
1433-04I		M20	14.0	11.2						3404-674	
1433-05I		M22	16.0	12.5						3404-675	
1433-06I		M24	18.0	14.0						3404-676	
1433-07I		M27	20.0	16.0						3404-677	
1433-08I		M30	20.0	16.0						3404-678	
1433-09I		M33	22.4	18.0						3404-679	
1433-10I		M36	25.0	20.0						3404-680	

## ISO 529 Type

ORDER NO.	Size	TC312 IOS 529 Tap	Tap Shank		Capacity	L1 (m/m)	L2 (m/m)	ØD1 (m/m)	ØD2 (m/m)	CODE NO.	ØD x □ Size same as ISO 529 / 2283	ØD x □ Size same as ISO 529
			ØD	□								
312-01I	TC 312 ISO 529	M1~M2	2.5	2.0	M1~M14	22.5	25	Suit for DIA. 19	32	3404-601	M3.5	M2
312-011A		M2	2.5	2.0						3404-601A	M3.5	M1~M2
312-02I		M2.2~M2.5	2.8	2.24						3404-602	M2.5	
312-021A		M2.5	2.8	2.24						3404-602A	M2.2~M2.5	
312-03I		M3	3.15	2.5						3404-603	M4	
312-04I		M3.5	3.55	2.8						3404-604	M4.5	
312-05I		M4	4.0	3.15						3404-605	M5	
312-06I		M4.5	4.5	3.55						3404-606	M6	
312-07I		M5	5.0	4.0						3404-607		
312-08I		M6	6.3	5.0						3404-608	M8	
312-09I		M7	7.1	5.6						3404-609	M9	
312-10I		M8	8.0	6.3						3404-610	M10	
312-11I	M9	9.0	7.1	3404-611	M12							
312-12I	M10	10.0	8.0	3404-612								

ORDER NO.	Size	TC820 ISO 529 Tap	Tap Shank		Capacity	L1 (m/m)	L2 (m/m)	ØD1 (m/m)	ØD2 (m/m)	CODE NO.	ØD x □ Size same as ISO 529 / 2283
			ØD	□							
820-01I	TC 820 ISO 529	M6	6.3	5.0	M6~M24	35	30.5	Suit for DIA. 31	50	3404-621	M8
820-02I		M7	7.1	5.6						3404-622	M9
820-03I		M8	8.0	6.3						3404-623	M10
820-04I		M9	9.0	7.1						3404-624	M12
820-05I		M10	10.0	8.0						3404-625	

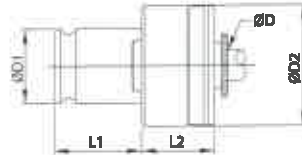
TAPPING CHUCKS



# Quick Change Tapping Collet



QUICK CHANGE TAP COLLETS



With Overload Safety Collet

## ANSI TYPE

ORDER NO.	Size	TC312 ANSI Tap	Tap Shank				Capacity	L1 L2 (mm)	ØD1 ØD2 (mm)	CODE NO.	ØD x □ Size same as ANSI			
			ØD		□									
			inch	mm	inch	mm								
TC312-#5-ANSI	TC312 ANSI	#5	0.141	3.581	0.11	2.794	#5~#14	21.5	Suit for DIA. 19.0	3404-701	UNC1/8",M3,M3.15			
TC312-#6-ANSI		#6	0.141	3.581	0.11	2.794				3404-702	M3.5			
TC312-#8-ANSI		#8	0.168	4.267	0.131	3.327				3404-703	UNC5/32",M4			
TC312-#10-ANSI		#10	0.194	4.928	0.152	3.861				3404-704	UNC3/16",M4.5,M5			
TC312-#12-ANSI		#12	0.220	5.588	0.165	4.191				3404-705				
TC312-#14-ANSI		#14	0.255	6.477	0.191	4.851				3404-706	UNC1/4",M6,M6.3			
TC312-M3-ANSI		M3	0.141	3.581	0.11	2.794				M3~M14	25.0	32.0	3404-707	#5,UNC1/8",M3.15
TC312-M4-ANSI		M4	0.168	4.267	0.131	3.327							3404-708	#8,UNC5/32"
TC312-M5-ANSI		M5	0.194	4.928	0.52	3.861							3404-709	#10,UNC3/16",M4.5
TC312-M6-ANSI		M6	0.255	6.477	0.191	4.851							3404-710	#14,UNC1/4",M6.3
TC312-M8-ANSI		M8	0.318	8.077	0.238	6.045							3404-711	UNC5/16",M7
TC312-M10-ANSI		M10	0.323	8.204	0.242	6.147							3404-712	UNC7/16"
TC312-M12-ANSI		M12	0.367	9.322	0.275	6.985							3404-713	UNC1/2",M12.5
TC312-M14-ANSI		M14	0.429	10.897	0.322	8.179							3404-714	UNC9/16"
TC312-UNC1/8-ANSI		UNC1/8	0.141	3.581	0.11	2.794	UNC1/8 ~ UNC9/16	25.0	32.0	3404-715	#5,M3,M3.15			
TC312-UNC3/16-ANSI		UNC3/16	0.194	4.928	0.152	3.861				3404-716	#10,M4.5,M5			
TC312-UNC1/4-ANSI		UNC1/4	0.255	6.477	0.191	4.851				3404-717	#14,M6,M6.3			
TC312-UNC5/16-ANSI		UNC5/16	0.318	8.077	0.238	6.045				3404-718	M7,M8			
TC312-UNC7/16-ANSI		UNC7/16	0.323	8.204	0.242	6.147				3404-719	M10			
TC312-UNC1/2-ANSI		UNC1/2	0.367	9.322	0.275	6.985				3404-720	M12,M12.5			
TC312-UNC3/8-ANSI	UNC3/8	0.381	9.677	0.286	7.264	3404-721								
TC312-UNC9/16-ANSI	UNC9/16	0.429	10.897	0.322	8.179	3404-722				M14				

## ANSI TYPE

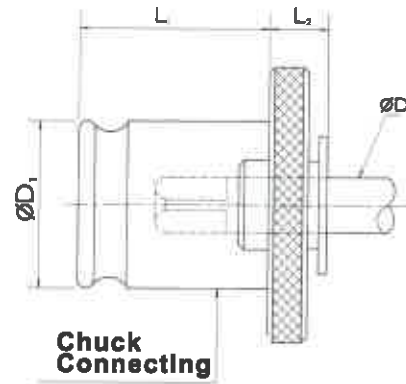
ORDER NO.	Size	TC820 ANSI Tap	Tap Shank				Capacity	L1 L2 (mm)	ØD1 ØD2 (mm)	CODE NO.	ØD x □ Size same as ANSI
			ØD		□						
			inch	mm	inch	mm					
TC820-UNC7/16-ANSI	TC820 ANSI	UNC7/16	0.323	8.204	0.242	6.147	UNC7/16 ~ UNC7/8	35.0	Suit for DIA. 31.0	3404-731	M10
TC820-UNC1/2-ANSI		UNC1/2	0.367	9.322	0.275	6.985				3404-732	M12,M12.5
TC820-UNC3/8-ANSI		UNC3/8	0.381	9.677	0.286	7.264				3404-733	
TC820-UNC9/16-ANSI		UNC9/16	0.429	10.897	0.322	8.179				3404-734	M14
TC820-UNC5/8-ANSI		UNC5/8	0.480	12.192	0.36	9.144				3404-735	M16
TC820-UNC11/16-ANSI		UNC11/16	0.542	13.767	0.406	10.312	M6~M24	34.0	50.0	3404-736	M18
TC820-UNC3/4-ANSI		UNC3/4	0.590	14.986	0.442	11.227				3404-737	
TC820-UNC13/16-ANSI		UNC13/16	0.652	16.561	0.489	12.421				3404-738	M20
TC820-UNC7/8-ANSI		UNC7/8	0.697	17.704	0.523	13.284				3404-739	M22



# Quick Change Tapping Collet



QUICK CHANGE TAP COLLETS



## JIS SYSTEM SIZE

1PC±0.08kg

Size	Thread	Tap Shank		ØD1	L1	L2	ORDER NO.	CODE NO.	ØD x □ Same JIS Inch or mm
		ØD	□						
TC312B (#1)	M3	4	3.2	Suit for DIA. 19	21.5	7	312B-01	3404-300	W1/8"
	M4	5	4				312B-02	3404-301	M4.5
	M5	5.5	4.5				312B-03	3404-302	M5.5 W3/16"
	M6	6	4.5				312B-04	3404-303	W1/4", UNC1/4"
	UNC 5/16	6.1	5				312B-05	3404-304	
	M7/M8	6.2	5				312B-06	3404-305	
	M9/M10	7	5.5				312B-07	3404-306	W3/8", UNC3/8"
	M11	8	6				312B-08	3404-307	W7/16", PT1/8", PS1/8", PF1/8", UNC7/16"
	M12	8.5	6.5				312B-09	3404-308	
	UNC 1/2	9	7				312B-10	3404-309	W1/2"
	M14	10.5	8				312B-11	3404-310	M15, W9/16"
	PT 1/4	11	9				312B-12	3404-311	PS1/4", PF1/4"

1PC±0.28kg

Size	Thread	Tap Shank		ØD1	L1	L2	ORDER NO.	CODE NO.	ØD x □ Same JIS Inch or mm
		ØD	□						
TC820B (#2)	M5/M5.5	5.5	4.5	Suit for DIA. 31	35	11	820B-00	3404-329	W3/16"
	M7/M8	6.2	5				820B-01	3404-330	
	M9/M10	7	5.5				820B-02	3404-331	W3/8", UNC3/8"
	M11	8	6				820B-03	3404-332	W7/16", UNC7/16", PT1/8", PS1/8", PF1/8"
	M12	8.5	6.5				820B-04	3404-333	
	UNC 1/2	9	7				820B-05	3404-334	W1/2"
	M14	10.5	8				820B-06	3404-335	M15 W9/16", UNC9/16"
	PT 1/4	11	9				820B-07	3404-336	PS1/4", PF1/4"
	UNC 5/8	12	9				820B-08	3404-337	W5/8"
	M16	12.5	10				820B-09	3404-338	
	M17	13	10				820B-10	3404-339	
	M18	14	11				820B-11	3404-340	W3/4", PT3/8", PS3/8", PF3/8", UNC3/4"
	M20	15	12				820B-12	3404-341	
	M22	17	13				820B-13	3404-342	W7/8", UNC7/8"
PT 1/2	18	14	820B-14	3404-343	PS1/2", PF1/2"				

1PC±0.8kg

Size	Thread	Tap Shank		ØD1	L1	L2	ORDER NO.	CODE NO.	ØD x □ Same JIS Inch or mm
		ØD	□						
TC1433B (#3)	M14/M15	10.5	8	Suit for DIA. 48	55.5	14	1433B-01	3404-360	W9/16", UNC9/16"
	PT 1/4	11	9				1433B-02	3404-361	
	UNC 5/8	12	9				1433B-03	3404-362	
	M16	12.5	10				1433B-04	3404-363	
	M17	13	10				1433B-05	3404-364	
	M18	14	11				1433B-06	3404-365	W3/4", UNC3/4", PT3/8", PS3/8", PF3/8"
	M20	15	12				1433B-07	3404-366	
	M22	17	13				1433B-08	3404-367	W7/8", UNC7/8"
	PT 1/2	18	14				1433B-09	3404-368	
	M24/M25	19	15				1433B-10	3404-369	PF5/8"
	M26/M27	20	15				1433B-11	3404-370	W1", UNC1"
	M28	21	17				1433B-12	3404-371	
	UNC 1 1/8	22	17				1433B-13	3404-372	
	M30	22	18				1433B-14	3404-373	PT3/4", PS3/4", PF3/4"
	M32	24	19				1433B-15	3404-374	W1-1/4", PF7/8", UNC1-1/4"
	M33	25	20				1433B-16	3404-375	
	M34/M35	26	21				1433B-17	3404-376	W1-3/8", PT1", PS1", PF1", UNC1-3/8"
	M36	28	22				1433B-18	3404-377	PS1-1/8", PF1-1/8"

TAPPING CHUCKS



# Tap Shank Dimensions INT. STD



For Tapping Chuck



FOR TAP Thread	JIS		ISO		DIN 371		DIN 376	
	Ød	□	Ød	□	Ød	□	Ød	□
M3	4	3.2	3.15	2.5	3.5	2.7	2.2	-
M4	5	4	4	3.15	4.5	3.4	2.8	2.1
M5	5.5	4.5	5	4	6	4.9	3.5	2.7
M6	6	4.5	6.3	5	6	4.9	4.5	3.4
M8	6.2	5	8	6.3	8	6.2	6	4.9
M10	7	5.5	10	8	10	8	7	5.5
M12	8.5	6.5	9	7.1			9	7
M14	10.5	8	11.2	9			11	9
M16	12.5	10	12.5	10			12	9
M18	14	11	14	11.2			14	11
M20	15	12	14	11.2			16	12
M22	17	13	16	12.5			18	14.5
M24	19	15	18	14			18	14.5
M27	20	15	20	16			20	16
M30	23	17	20	16			22	18
PT 1/8	8	6						
PT 1/4	11	9						
PT 3/8	14	11						
PT 1/2	18	14						
PT 5/8	19	15						
PT 3/4	23	17						

## JIS STANDARD

METRIC THREAD	INCH THREAD	Ød	□
M3	W 1/8	4	3.2
M4 M4.5		5	4
M5 M5.5		5.5	4.5
M6	W 1/4	6	4.5
	W 5/16	6.1	5
M8 M7		6.2	5
M10 M9	W 3/8	7	5.5
M11	W 7/16	8	6
M12		8.5	6.5
	W 1/2	9	7
M14 M15	W 9/16	10.5	8
	W 5/8	12	9
M16		12.5	10
M17		13	10
M18	W 3/4	14	11
M20		15	12
M22	W 7/8	17	13
M24 M25		19	15
M27 M26	W1	20	15
M28		21	17
	W 1-1/8	22	17
M30		23	17
M32	W1-1/4	24	19
M33		25	19
M35 M34	W1-3/8	26	21
M36 M38		28	21
M39 M40	W1-1/2	30	23
M42	W1-5/8	32	26
M45	W1-3/4	35	26
M48	W1-7/8	38	29

## DIN STANDARD

FOR TAP Thread	DIN 371	DIN 352	DIN 376			
Ød	□	Ød	□			
M1 M1.1 M1.2 M1.4 M1.6 M1.8	2.5	2.1	2.5	2.1		
M2 M2.2 M2.5	2.8	2.1	2.8	2.1		
M3	3.5	2.7	3.5	2.7	2.2	-
M3.5	4	3	4	3		
M4	4.5	3.4	4.5	3.4	2.8	2.1
M5 M6	6	4.9	6	4.9		
M8	8	6.2			6	4.9
M8			6	4.9	6	4.9
M10	10	8			7	5.5
M10			7	5.5	7	5.5
M12			9	7	9	7
M14			11	9	11	9
M16			12	9	12	9
M18			14	11	14	11
M20			16	12	16	12
M22 M24			18	14.5	18	14.5
M27			20	16	20	16
M30			22	18	22	18

## DRILL HOLE SIZE FOR TAP THREAD

TAP THREAD	PITCH (P)	DRILL HOLE (d mm)
M1	0.25	0.75
M1.1	0.25	0.85
M1.2	0.25	0.95
M1.4	0.3	1.1
M1.6	0.35	1.25
M1.8	0.35	1.45
M2	0.4	1.6
M2.2	0.45	1.75
M2.5	0.45	2.05
M3	0.5	2.5
M3.5	0.6	2.9
M4	0.7	3.3
M4.5	0.75	3.75
M5	0.8	4.2
M6	1	5
M7	1	6
M8	1.25	6.75
M9	1.25	7.75
M10	1.5	8.5
M11	1.5	9.5
M12	1.75	10.2
M14	2	12
M16	2	14
M18	2.5	15.5
M20	2.5	17.5
M22	2.5	19.5
M24	3	21
M27	3	24
M30	3.5	26.5
M33	3.5	29.5
M36	4	32

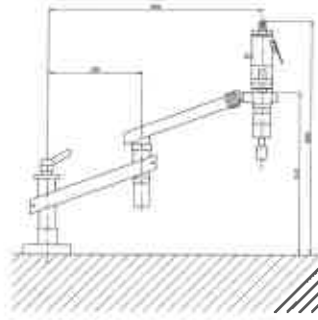
FOR TAP Thread	JIS Ød	JIS □	ISO Ød	ISO □	DIN 371 Ød	DIN 371 □	DIN 376 Ød	DIN 376 □
W 1/8"	4	3.2						
W 3/16"	5.5	4.5						
W 1/4"	6	4.5						
W 5/16"	6.1	5						
W 3/8"	7	5.5						
W 7/16"	8	6						
W 1/2"	9	7						
W 5/8"	12	9						
W 3/4"	14	11						
W 7/8"	17	13						
W 1"	20	15						

## JIS STANDARD PIPE THREAD

For Tap Style	PT	PS	PF	Tapping Chuck Tap Size Ød	□
1/8	1/8	1/8	1/8	8	6
1/4	1/4	1/4	1/4	11	9
3/8	3/8	3/8	3/8	14	11
1/2	1/2	1/2	1/2	18	14
			5/8	19	15
3/4	3/4	3/4	3/4	23	17
			7/8	24	19
1	1	1	1	26	21
			1 - 1/8	28	21
1 - 1/4	1 - 1/4	1 - 1/4	1 - 1/4	32	26
1 - 3/8	1 - 3/8	1 - 3/8	1 - 3/8	35	26
1 - 1/2	1 - 1/2	1 - 1/2	1 - 1/2	38	29

# Mini Type Arm Type Air Tapping Unit

HIGH TORQUE HIGH EFFICIENCY EASY OPERATION



## ACCESSORIES

- Air tapping spindle
  - Parallel arm & Air combination
  - Table mounting column
  - Choose any six safety clutch tapping adapters
  - Radial jib
  - Air pressure: 6~8 kgs/cm<sup>3</sup>
  - VAT-08/12 series require: 5HP compressor
  - VAT-16/20 series require: 10HP compressor
- ※ GUARANTEED FOR 3 MONTHS.  
 ※ MUST INSTALL ON A STABLE / HARD SURFACE FOR PARALLE WORK.

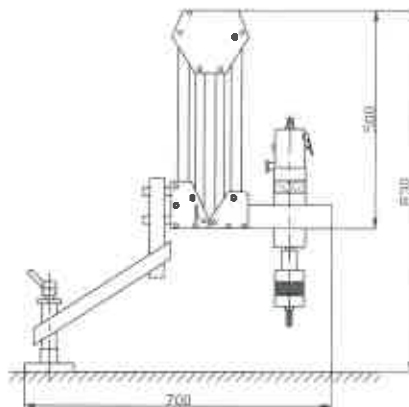
※ Base not included

ORDER NO.	VAT-708	VAT-712	VAT-716	VAT-720	VAT-722	VAT-724
For Tap	M3~M8	M5~M12	M8~M16	M10~M20	M12~M22	M14~M24
	TC-312	TC-312	TC-820	TC-820	TC-820	TC-820
Speed (rpm)	630/700	350/400	250	200	200	100
Weight (kgs)	13.2	13.1	17.3	20.6	20.6	22.1
Work Range	Rmax 700mm					
CODE NO.	3404-410	3404-411	3404-412	3404-413	3404-413A	3404-413B

AIR TAPPING UNIT

# Small Arm Type Air Tapping Unit

HIGH TORQUE HIGH EFFICIENCY EASY OPERATION



※ Base not included

## ACCESSORIES

- Air tapping spindle
- Parallel arm & Air combination
- Table mounting column
- Choose any six safety clutch tapping adapters
- Radial jib, increases arm reach by 500 mm

- Without stand plate
- Air pressure: 6~8 kgs / cm<sup>3</sup>
- VAT-08/12 series require: 5HP compressor
- VAT-16/20 series require: 10HP compressor

※ GUARANTEED FOR 3 MONTHS.  
 ※ MUST INSTALL ON A STABLE / HARD SURFACE FOR PARALLE WORK.

ORDER NO.	VAT-1408	VAT-1412	VAT-1416	VAT-1420	VAT-1422	VAT-1424
For Tap	M3~M8	M5~M12	M8~M16	M10~M20	M12~M22	M14~M24
	TC-312	TC-312	TC-820	TC-820	TC-820	TC820
Speed (rpm)	700	400	250	200	200	100
Weight (kgs)	18.2	18.2	24.6	25.6	25.6	27.1
Work Range	Rmax 1400mm Rmin 200mm					
CODE NO.	3404-415	3404-416	3404-417	3404-418	3404-418A	3404-418B

※ VAT-1424 can be replaced by VAT-1624



# Arm Type Air Tapping Unit



**HIGH TORQUE HIGH EFFICIENCY EASY OPERATION**

**WORK RANGE  
1600X500mm  
RMAX. X MIN.**



※Base not included

**VAT-1608/1612/1616  
VAT-1620/1622/1624**

## To solve all tapping problems

- Rapid positioning and high machining speed increase productivity.
- Lower tap damage rate, high thread accuracy.
- Tap shall never break for tapping through-hole or blind-hole.
- Tapping for heavier workpiece requires neither positioning equipments nor movement or large work area.
- Lower machining cost than that by CNC machine, drilling machine or manual tapping operation.
- Drilling to max: 6mm diameter
- Easy operation, no experience or strength required.
- Without stand plate.
- Air pressure: 6~8 kgs/cm<sup>3</sup>
- VAT-08/12 series require: 5HP compressor
- VAT-16/20 series require: 10HP compressor
- ※ GUARANTEED FOR 3 MONTHS.
- ※ MUST INSTALL ON A STABLE / HARD SURFACE FOR PARALLE WORK.

## Suggest collet size for standard acces



VAT-□□□□ COLLET SIZE TC312-M3,M4,M5,M6\*2,M8

VAT-□□□□ COLLET SIZE TC312-M5,M6,M8\*2,M10,M12

VAT-□□□□ COLLET SIZE TC312/TC820

TC312-M8,M10

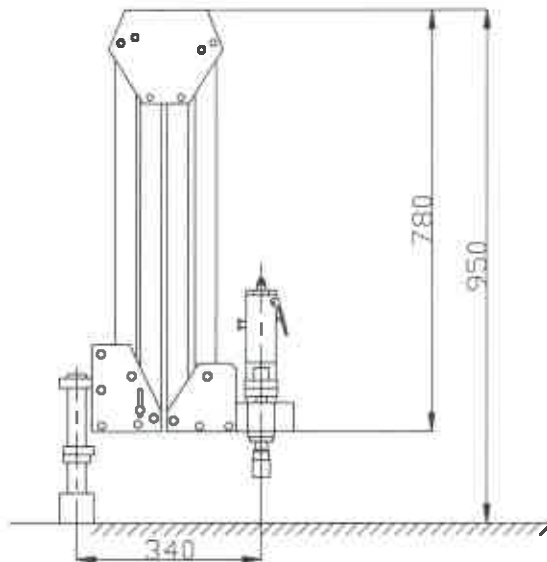
TC820-M10,M12,M14,M16

VAT-□□□□ COLLET SIZE TC820-M10,M12,M14,M16,M18,M20

VAT-□□□□ COLLET SIZE TC820-M12,M14,M16,M18,M20,M22

VAT-□□□□ COLLET SIZE TC820-M14,M16,M18,M20,M22,M24

## JIS & DIN376 Most Populared



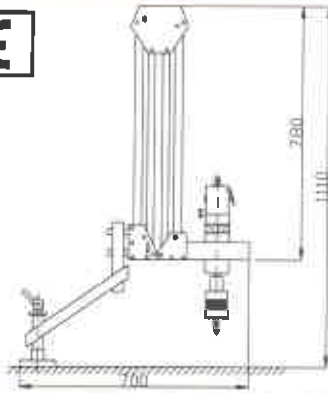
ORDER NO.	VAT-1608	VAT-1612	VAT-1616	VAT-1620	VAT-1622	VAT-1624
For Tap	M3~M8	M5~M12	M8~M16	M10~M20	M12~M22	M14~M24
	TC-312	TC-312	TC-820	TC-820	TC-820	TC-820
Speed (rpm)	700	400	250	200	200	100
Weight (kgs)	16.9	17	21.1	24.6	24.6	26.10
Work Range	Rmax 1600mm					
	Rmin 500mm					
CODE NO.	3404-420	3404-421	3404-422	3404-428	3404-428A	3404-428B

## VAT-1608, 1612, 1616, 1620, 1622, 1624

### STANDARD ACCESSORIES

- Air tapping spindle
- Parallel arm
- Table mounting column
- Air combination
- Choose any six safety clutch tapping adapters

# Air Tapping Unit



## STANDARD ACCESSORIES:

- Air tapping spindle
- Parallel arm & Air combination
- Table mounting column
- Choose any six safety clutch tapping adapters
- Radial jib, increases arm reach by 500 mm
- Air pressure: 6~8 kgs / cm<sup>2</sup>
- VAT-08/12 series require: 5HP compressor
- VAT-16/20 series require: 10HP compressor

※Base not included

ORDER NO.	VAT-1908	VAT-1912	VAT-1916	VAT-1920	VAT-1922	VAT-1924
For Tap	M3~M8	M5~M12	M8~M16	M10~M20	M12~M22	M14~M24
	TC-312	TC-312	TC-820	TC-820	TC-820	TC-820
Speed (rpm)	700	400	250	180/200	185/205	90/100
Weight (kgs)	19.7	23.9	23.5	26	28	28
Work Range	Rmax 1900mm					
	Rmin 200mm					
CODE NO.	3404-425	3404-426	3404-427	3404-430	3404-431	3404-431A

※VAT-1924 can be replaced by VAT-1624

※GUARANTEED FOR 3 MONTHS.

AIR TAPPING UNIT

# Air Tapping Spindle

High torque, high efficiency for machining all tapping requirement. Light and handy main shaft design, easy operation.

**The required pressure is 6.3kg/cm<sup>2</sup>=90 PSI.**

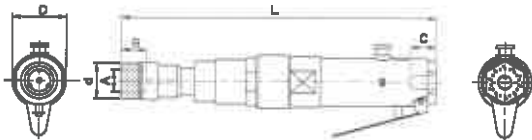
- SP08 & SP12 Required 5 HP compressor and more.
  - SP16 & SP20 Required 10 HP compressor and more.
- (must keep the air pressure at 6.3kg/cm<sup>2</sup>)

※GUARANTEED FOR 3 MONTHS.

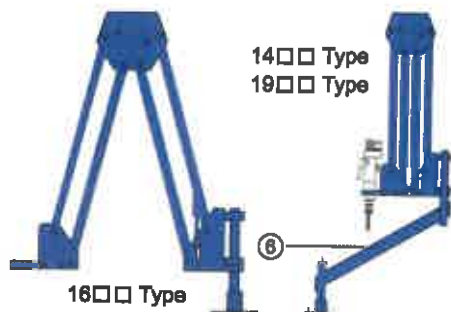


ORDER NO.	TAPPING CAPACITY	SPEED (rpm)	MOUNTING DIA.	WEIGHT (kgs)	CODE NO.
VAT-SP08	M3-M8	630/700	ø38.5 (1 1/2")	1.5	3404-432
VAT-SP12	M5-M12	350/400	ø38.5 (1 1/2")	1.5	3404-433
VAT-SP16	M8-M16	230/250	ø61.3 (2 13/32")	3.9	3404-434
VAT-SP20	M10-M20	180/200	ø61.3 (2 13/32")	3.9	3404-435
VAT-SP22	M12-M22	185/205	ø61.3 (2 13/32")	3.9	3404-435A
VAT-SP24	M14-M24	90/100	ø61.3 (2 13/32")	4.3	3404-435B

ORDER NO.	A	B	C	D	d	L	CODE NO.
VAT-SP08	19	30	22	46	32	263	3404-432
VAT-SP12	19	30	22	46	32	263	3404-433
VAT-SP16	31	48	27	65	50	360	3404-434
VAT-SP20	31	48	27	65	50	360	3404-435
VAT-SP22	31	48	27	65	50	360	3404-435A
VAT-SP24	31	48	27	65	50	395	3404-435B



# Parallel Arm For Air Tapping Unit



## PARALLEL ARM

FOR THE AIR TAPPING UNIT

ORDER NO.	WEIGHT SP-08	WEIGHT SP-12	WEIGHT SP-16	CODE NO.
VAT-ARM700-SP <sup>08</sup> , <sup>12</sup> , <sup>16</sup>	12kgs	12kgs	14kgs	3404-436
VAT-ARM1400x200-SP <sup>08</sup> , <sup>12</sup> , <sup>16</sup>	17kgs	17kgs	18kgs	3404-437
VAT-ARM1600x500-SP <sup>08</sup> , <sup>12</sup> , <sup>16</sup>	17kgs	17kgs	18kgs	3404-438
VAT-ARM1900x200-SP <sup>08</sup> , <sup>12</sup> , <sup>16</sup>	19kgs	19kgs	20kgs	3404-439

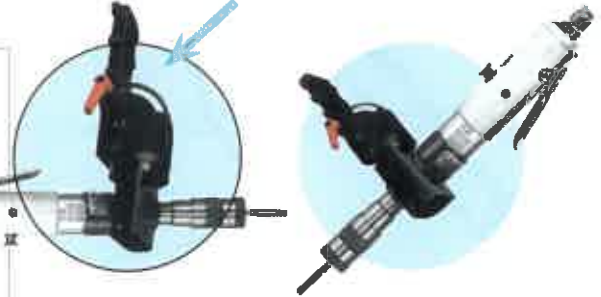
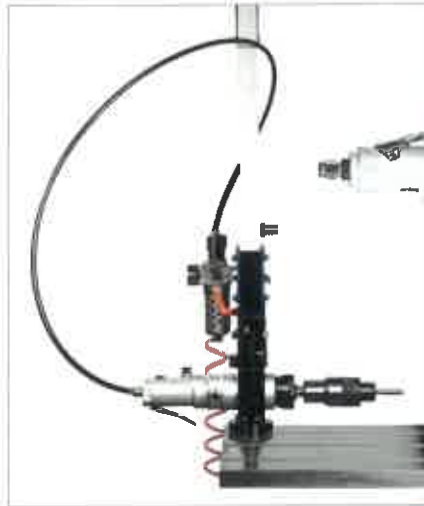
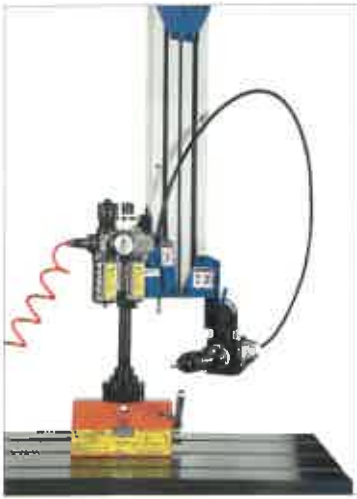
※ MUST INSTALL ON A STABLE / HARD SURFACE FOR PARALLE WORK.





# Adjustable Angle Head For Air Tapping Unit

90° and Universal Degree



ORDER NO.	FOR VAT-TYPE	WEIGHT (kg)	CODE NO.
AT08-90°	VAT-1408 VAT-1908	VAT-1608 1.1	3404-440
AT12-90°	VAT-1412 VAT-1912	VAT-1612 1.1	3404-441

ORDER NO.	FOR VAT-TYPE	WEIGHT (kg)	CODE NO.
AT16-90°	VAT-1416 VAT-1916	VAT-1616 1.5	3404-442
AT20-90°	VAT-1920	1.5	3404-443
AT22-90°	VAT-1922	1.5	3404-444
AT24-90°	VAT-1924	1.5	3404-446



# Magnetic Base For Air Tapping Unit

PORTABLE & MOVEABLE AIR TAPPING ARM



MAGNETIC BASE

EXAMPLE

● Special Accessory for VAT-Series

※ MUST INSTALL ON A STABLE / HARD SURFACE FOR PARALLE WORK.



ORDER NO.	Magnetic Base		suit For VAT-Type	Weight (kgs)	CODE NO.
	Holding Power	Dimension LXWXH (mm)			
VLM-300A	300kg	155x90x93	VAT-708, 712, 716	9.4	3404-450
			VAT-1408, 1412, 1416		
			VAT-1608, 1612, 1616		
			VAT-1908, 1912, 1916		
VLM-600A	600kg	224x115x120	VAT-720, 722, 724	21.9	3404-451
			VAT-1420, 1422, 1424		
			VAT-1620, 1622, 1624		
			VAT-1920, 1922, 1924		



# Mist Coolant System For Air Tapping Unit

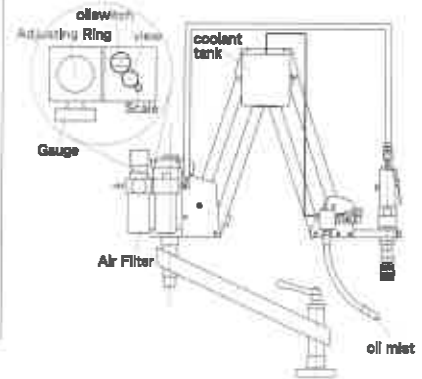
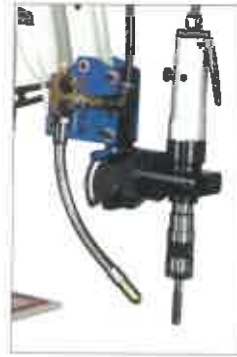


Without Oil

ORDER NO.VAC-08 CODE NO.3404-452



+



ENLARGE THE TAPPER LIFE 50%

AIR TAPPING UNIT



# Collet Rack For Air Tapping Unit

ORDER NO.VCR-08 CODE NO.3404-453



COLLET RACK



# Note For VAT-Series / VAG-Series

CAUTIONS

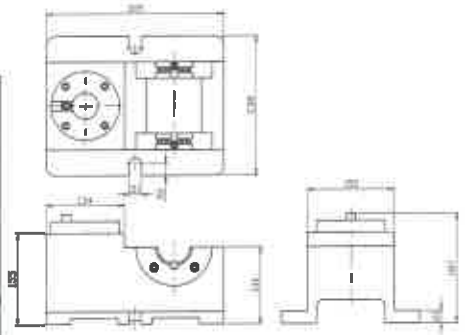
## CAUTIONS:



1. AIR COMPRESSOR PRESSURE 6~8 kg/cm<sup>2</sup> , DRY AIR.
2. Always check oil level of the 3 in 1 air combination.
3. Tapping ARM has to be mounted on the same hardened work plate.
4. SET THE WORKPIECE SURFACE TO BE PARALLELED WITH TAPPING ARM STAND.
5. Always supply cutting oil while tapping.
6. Work every 1 hour rest 10 to 15 minutes, 8 hours per day. Every 3 months need service.
7. After use, drop some #60 oil/lubrication into air inlet.  
Air hose & connector must be cleaned before use!



# Deluxe Type Tool Setting Stand

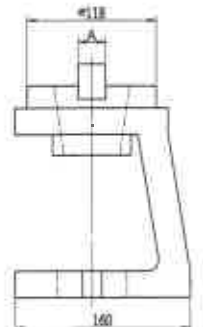
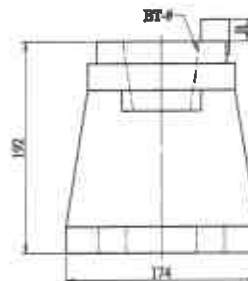
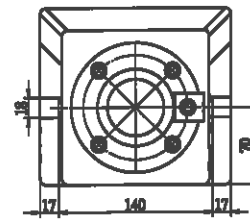


- This tool setting stand is one kind of subsidize tool for helping machine center to work efficiently. To be used fixing the tools on tool holder. It could avoid the method of using draw bar to fix (on machine center). It is safe, and doesn't effect the precision of machine's spindle.
- It's best for using on horizontal or vertical lines, simple & quick operations.
- A multi-function tool, it is changeable, has two kinds of specifications can be used. That is to say, one machine could be used as two sets machines.
- Additional special accessories to make your operating more convenient.
- CAT & SK share same model.

ORDER NO.	SHANK TAPERS		WEIGHT (kgs)	CODE NO.
	TOOL POST	ADAPTER HOLDING		
VTD-1	BT-#40x1	BT-#40x2	22.4	3405-001
VTD-2	BT-#50x1	BT-#50x2	22	3405-002
VTD-3	BT-#50x1	BT-#50x1 BT-#40x1	24	3405-003
VTD-4	BT-#40x1	BT-#50x1 BT-#40x1	24	3405-004
VTD-5	SK-40x1	SK-40x2	26	3405-005
VTD-6	SK-50x1	SK-50x2	24	3405-006
VTD-7	SK-50x1	SK-50x1 SK-40x1	25	3405-007
VTD-8	SK-40x1	SK-50x1 SK-40x1	25	3405-008
VTD-9	BT-30x1	BT-30x2	23	3405-009
VTD-10	SK-30x1	SK-30x2	23	3405-009A

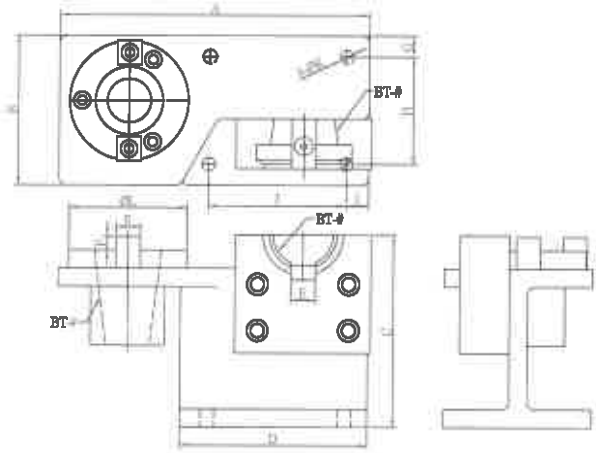


# Simple Type Tool Setting Stand



- This tool setting stand is one kind of subsidize tool for helping machine center to work efficiently. To be used fixing the tools on tool holder. It could avoid the method of using draw bar to fix (on machine center). It is safe, and doesn't effect the precision of machine's spindle.
- It is simple structive type. And could fix tooling on the above and hold the pull studs on the below of it. This is the excellent helping tools for simple, rapid and safe.

ORDER NO.	SHANK TAPERS	STD	WEIGHT (kg)	CODE NO.
VTS-BT-30	30	BT ISO NT	11.9	3405-010
VTS-BT-40	40		12.4	3405-011
VTS-BT-50	50		11.9	3405-012
VTS-SK-30	30	CAT DIN 69871A	11.9	3405-013
VTS-SK-40	40		12.4	3405-014
VTS-SK-50	50		11.9	3405-015



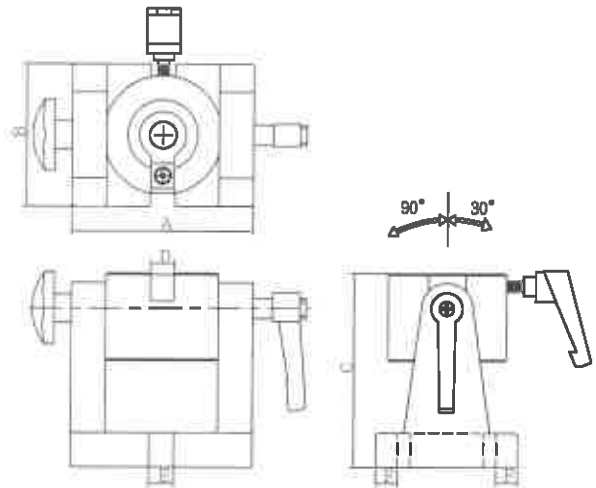
TOOL HOLDER LOCKING

ORDER NO.	A	B	C	D	E	F	G	H	I	J	K	L	CODE NO.
VTG-BT30	205	99	127	124	15	10	16	71	15	91	9	78	3405-020
VTG-BT40	205	99	127	124	16	9	14	71	15	91	9	78	3405-021
VTG-BT50	282	152	203	162	25	16	22	108	25	115	9	115	3405-022

ORDER NO.	STD	WEIGHT (KGS)	CODE NO.
VTG-BT30	ISO BT	4.1	3405-020
VTG-BT40		4.2	3405-021
VTG-BT50		11.8	3405-022
VTG-SK30	CAT SK DIN69871A	3.7	3405-023
VTG-SK40		4	3405-024
VTG-SK50		12.3	3405-025

# Tool Holder Locking Device

TILTING TYPE



Example Shank Not Included

ORDER NO.	STD	WEIGHT (KGS)	CODE NO.
VTL-BT30	ISO BT	4.2	3405-030
VTL-BT40		4.3	3405-031
VTL-BT50		9.8	3405-032
VTL-SK30	DIN69871A	4	3405-033
VTL-SK40		4	3405-034
VTL-SK50		8	3405-035
VTL-NT30	NT	4.2	3405-036
VTL-NT40		4.3	3405-037
VTL-NT50		9.8	3405-038

ORDER NO.	A	B	C	D	E	F	CODE NO.
VTL-BT30	116	91	126	16	15	14	3405-030
VTL-BT40	117	91	136	16	15	14	3405-031
VTL-BT50	149	121	189	25	15	15	3405-032

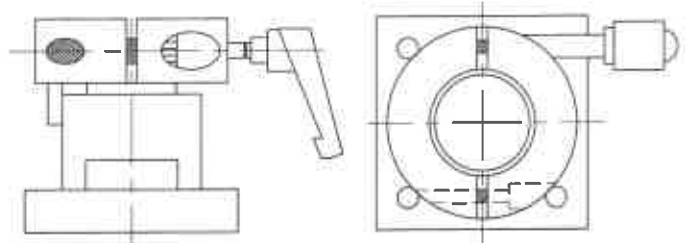


# Tool Holder Locking Fixtures



HSK TYPE

NEW



ORDER NO.	STD	WEIGHT (KGS)	CODE NO.
VTL-HSK40	DIN69893 HSK	2.5	3405-046
VTL-HSK50		3.5	3405-047
VTL-HSK63		4.5	3405-048



## Round Tool Locking Device

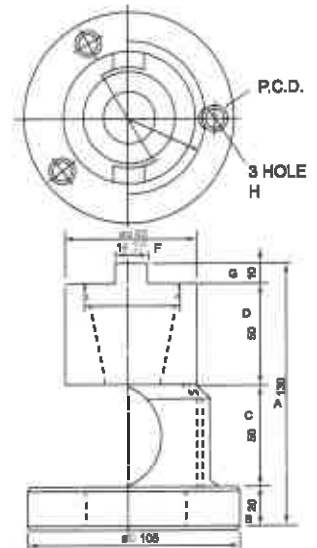
NEW



Example

**Feature:**

- Light weight & compact design
- Quick setup time
- For tool holder locking
- Space saving



ORDER NO.	SHANK APERS	ØD	Ød	3HOLE P.C.D.	H	A	B	C	D	E	F	WEIGHT (kg)	CODE NO.
VTO-BT30	30	90	50	70	ø14x9xø9	108	20	48	30	10	16	1.2	3405-190
VTO-BT40	40	105	65	85	ø14x9xø9	130	20	50	50	10	16	2.2	3405-191
VTO-BT50	50	135	95	115	ø14x9xø9	188	24	82	70	12	25.4	5	3405-192



## Fast Tool Setting Stand

HSK TYPE

NEW



Example

LEVER FOR CLAMPING & UNCLAMPING

SETTING INSIDE FOR CLAMPING

✘MOVEABLE KEY FOR FLEXIBLE PURPOSE FLEXIBLE

ORDER NO.	STD	WEIGHT (kg)	CODE NO.
VTS-HSK63	DIA69893HSK	10.5	3405-193
VTS-HSK100		11.5	3405-194



# Spindle Taper Wiper



- Easily and quickly for cleaning spindle hole.
- Plastic body, the taper wiper is made of special cotton material, will not damage the spindle.
- The BT & DIN of taper are same

ORDER NO.	TAPER NO.	TOTAL LENGTH	WEIGHT (kg)	CODE NO.
VTW-30	#30	168mm	0.07	3405-060
VTW-40	#40	185mm	0.08	3405-061
VTW-50	#50	240mm	0.02	3405-062



# Spindle Taper Wiper

NEW



- Easily and quickly for cleaning spindle hole.
- Plastic body, the taper wiper is made of special cotton material, will not damage the spindle.
- The BT & DIN of taper are same
- Replaceable Wiper.
- Easy to replace new wipers.
- Included 2 sets x disposable wipers
- ECO Friendly

ORDER NO.	TAPER NO.	TOTAL LENGTH	WEIGHT (kg)	CODE NO.
VTW-30R	#30	162mm	0.08	3405-065
VTW-40R	#40	180mm	0.09	3405-066
VTW-50R	#50	230mm	0.18	3405-067

ORDER NO.	CONTAINS SPARE	WEIGHT (kg)	CODE NO.
VTW-30R-WIPER	20pcs / box	0.01	3405-530
VTW-40R-WIPER	20pcs / box	0.02	3405-531
VTW-50R-WIPER	25pcs / box	0.04	3405-532



# Spindle Taper Wiper



H Type

ORDER NO.	TAPER NO.	TOTAL LENGTH	WEIGHT (kg)	CODE NO.
VTW-50H	HSK50	159mm	0.1	3405-071
VTW-63H	HSK63	167mm	0.12	3405-072

TOOLING CART

**NEW**

VTT-30

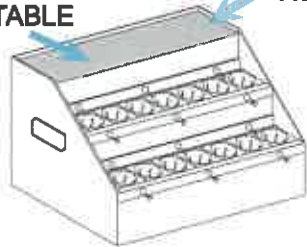


VTT-31



- Compact design
- Clear Storage
- Easy to clean
- Portable design
- Large tooling storage
- VTT-30 with Rubber mate
- Big size variety

VTT-30  
FLAT TABLE RUBBER



LxWxH : 550x430x360 mm  
CAPACITY VTT-30 WITH  
BT-30 16 SHEATH, 1FLAT TABLE  
BT-40 14 SHEATH, 1FLAT TABLE  
BT-50 10 SHEATH, 1FLAT TABLE  
HSK63 12 SHEATH, 1FLAT TABLE

LxWxH : 550x430x360 mm  
VTT-31 WITH  
BT-30 24 SHEATH  
BT-40 21 SHEATH  
BT-50 15 SHEATH  
HSK63 18 SHEATH

ORDER NO.	STD	TOOLING SHEATH CAPACITY	CODE NO.
VTT-30-30	BT-30, DIN69871A	16 pcs/set	3405-211
VTT-30-40	BT-40, DIN69871A	14 pcs/set	3405-212
VTT-30-50	BT-50, DIN69871A	10 pcs/set	3405-213
VTT-30-HSK63	HSK63	12 pcs/set	3405-214
VTT-31-30	BT-30, DIN69871A	24 pcs/set	3405-215
VTT-31-40	BT-40, DIN69871A	21 pcs/set	3405-216
VTT-31-50	BT-50, DIN69871A	15 pcs/set	3405-217
VTT-31-HSK63	HSK63	18 pcs/set	3405-218

## Tooling Cart

FOR BT30,40,50 / SK30,40,50 / CAT30,40,50 / ISO30,40,50

**NEW**



VTT-21

TOOL LOCKING DEVICE



TOOL TRAY



WITH VTTTR-FOLDING HANDLE  
TOOLING SHEATH RACK

OVERALL SIZE:626 X 655X 980 mm WEIGHT:43KGS

- LARGE CAPACITY,CAN PUT MORE SHANK TOOLING TROLLEY.
- TAPER ANGLE RACK STAND DESIGN,ERGONOMIC DESIGN,USER FRIENDLY SAVE YOU ENERGY & EASY TO TAKE OUT YOUR TOOL HOLDER.
- CAN TAKE OUT/PUT IN WHOLE SET OF THE NEW TOOLING SHEATH RACK (VTTTR-30/40/50 TR SERIES).CAN FOR SEPARATE USING.
- WITH FOLDING HANDLE CAN SAVE SPACE AND BETTER FREE ACTION MOVEMENT.
- CONVENIENT & SPEED INSTALLATION.
- STABLE & HEAVY DUTY.

ORDER NO.	FOR STD	TOOL LOCKING DEVICE	TOOLING SHEATH CAPACITY	CODE NO.
VTT-21-30	BT-30 DIN 69871A SK30, CAT30, ISO30	BT-30 DIN 69871A SK30, CAT30, ISO30	32PCS/SET	3405-080
VTT-21-40	BT-40 DIN 69871A SK40, CAT40, ISO40	BT-40 DIN 69871A SK40, CAT40, ISO40	28PCS/SET	3405-081
VTT-21-50	BT-50 DIN 69871A SK50, CAT50, ISO50	BT-50 DIN 69871A SK50, CAT50, ISO50	20PCS/SET	3405-082

# Tooling Cart

FOR BT30,40,50 / SK30,40,50  
CAT30,40,50 / ISO30,40,50

NEW

VERTEX

2 TIMES CAPACITY COMPARE WITH  
For VTT-2 BT-40 IS 28 PCS  
For VTT-11-40 IS 56 PCS



VTT-11



EXAMPLE



VTT-12

TOOLING CART

ORDER NO. VTT-11

TOOLING SHEATH TYPE

ORDER NO.	FOR STD	TOOLING SHEATH CAPACITY	CODE NO.
VTT-11-30	BT-30,SK30,CAT30, ISO30 DIN 69871A	64 PCS/SET	3405-230
VTT-11-40	BT-40,SK40,CAT40, ISO40 DIN 69871A	56 PCS/SET	3405-231
VTT-11-50	BT-50,SK50,CAT50, ISO50 DIN 69871A	40 PCS/SET	3405-232

OVERALL SIZE:626 X 960 X 1000MM,WEIGHT:63KGS

ORDER NO.VTT-12

TOOLING SHEATH WITH 1 DRAWERS

ORDER NO.	FOR STD	TOOLING SHEATH CAPACITY	CODE NO.
VTT-12-30	BT-30,SK30,CAT30, ISO30 DIN 69871A	48 PCS/SET	3405-240
VTT-12-40	BT-40,SK40,CAT40, ISO40 DIN 69871A	42 PCS/SET	3405-241
VTT-12-50	BT-50,SK50,CAT50, ISO50 DIN 69871A	30 PCS/SET	3405-242

OVERALL SIZE:626 X 960 X 1000MM,WEIGHT:85KGS

- LARGE CAPACITY,CAN PUT MORE SHANK TOOLING TROLLEY.
- TAPER ANGLE RACK STAND DESIGN,ERGONOMIC DESIGN,USER FRIENDLY
- SAVE YOU ENERGY & EASY TO TAKE OUT YOUR TOOL HOLDER.
- CAN TAKE OUT/PUT IN WHOLE SET OF THE NEW TOOLING SHEATH RACK (VTRR-30/40/50 TR SERIES).CAN FOR SEPARATE USING.
- WITH FOLDING HANDLE CAN SAVE SPACE AND BETTER FREE ACTION MOVEMENT. CONVENIENT & SPEED INSTALLATION. STABLE & HEAVY DUTY.

DRAWER:LxWxH: 610x360x215 mm

# Tooling Rack

FOR BT30,40,50 / SK30,40,50 / CAT30,40,50 / ISO30,40,50

SIZE:604mm(L) / 140mm(W) / 160mm(H)

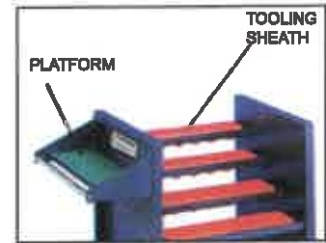


WITH FOLDING HANDLE

※SHOWS VTRR-40TR

ORDER NO.	FOR STD	TOOLING SHEATH CAPACITY	WEIGHT (kgs)	CODE NO.
VTRR-30TR	BT30,SK30, CAT30,ISO30	8 PCS	4.0	3405-250
VTRR-40TR	BT40,SK40, CAT40,ISO40	7 PCS	4.0	3405-251
VTRR-50TR	BT50,SK50, CAT50,ISO50	5 PCS	4.0	3405-252





ORDER NO.:VTT-2  
WEIGHT:51kgs

ORDER NO.	STD	TOOLING SHEATH CAPACITY	CODE NO.
VTT-2-30	BT-30 DIN 69871A	32 PCS/SET	3405-100
VTT-2-40	BT-40 DIN 69871A	28 PCS/SET	3405-101
VTT-2-50	BT-50 DIN 69871A	20 PCS/SET	3405-102
VTT-2-HSK63	HSK63	24 PCS/SET	3405-103

Overall Size : 1002x650x810 mm  
Grey color



ORDER NO.:VTT-5  
WEIGHT:64kgs  
WITH 2 DRAWERS

ORDER NO.	STD	TOOLING SHEATH CAPACITY	CODE NO.
VTT-5-30	BT-30 DIN 69871A	32 PCS/SET	3405-110
VTT-5-40	BT-40 DIN 69871A	28 PCS/SET	3405-111
VTT-5-50	BT-50 DIN 69871A	20 PCS/SET	3405-112
VTT-5-HSK63	HSK63	24 PCS/SET	3405-113

Overall Size : 1002x650x810 mm  
Grey color



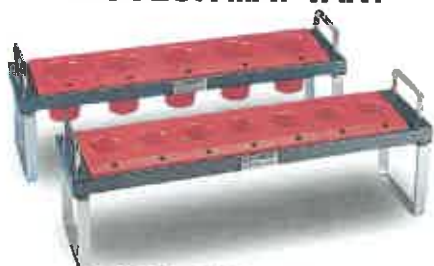
ORDER NO.:VTT-6  
WEIGHT:53kgs  
WITH 1 DRAWERS

ORDER NO.	STD	TOOLING SHEATH CAPACITY	CODE NO.
VTT-6-30	BT-30 DIN 69871A	32 PCS/SET	3405-105
VTT-6-40	BT-40 DIN 69871A	28 PCS/SET	3405-106
VTT-6-50	BT-50 DIN 69871A	20 PCS/SET	3405-107
VTT-6-HSK63	HSK63	24 PCS/SET	3405-108

Overall Size : 1002x650x810 mm  
Grey color

# Tooling Sheath Rack

THE BT & DIN TAPER ARE SAME.  
\*COLOR MAY VARY



SIZE  
595mm(L)  
143mm(W)  
225mm(H)

FOR BT30,40,50 / SK30,40,50 / CAT30,40,50 / ISO30,40,50

ORDER NO.	WEIGHT(kgs)	TOOLING SHEATH CAPACITY	CODE NO.
VTTR-BT-30	3.8	8 PCS	3405-120
VTTR-BT-40	3.7	7 PCS	3405-121
VTTR-BT-50	3.7	5 PCS	3405-122
VTTR-HSK63	3.7	6PCS	3405-123

# Tooling Sheath

\*COLOR MAY VARY



THE BT & DIN OF TAPER ARE SAME.

ORDER NO.: VTTS-BT-30  
WEIGHT:0.077kg

CODE NO. 3405-130

SIZE: 48 X138 X 65mm

ORDER NO.: VTTS-BT-40

WEIGHT:0.085kg

CODE NO. 3405-131

SIZE: 63 X 138X 74mm

ORDER NO.: VTTS-BT-50

WEIGHT:0.123kg

CODE NO. 3405-132

SIZE: 93 X 138X 104mm

# End Mill Sheath Rack

ORDER NO.VMS-2 CODE NO.3405-050



Material:ABS  
with 62 sheaths.

\*End mills not included

Unit:mm

CAPACITY RANGE	SIZE	WEIGHT (kg)
Ø6~Ø42	205x205x80	0.4

# Cutting Tool Sheath Rack

ORDER NO.VMS-3 CODE NO.3405-051



• For Drill & End Mill Use

• Ø1.0~Ø10.0(Ø1.0,1.1~9.9,10.0)EACH0.1<sup>mm</sup>  
ONE POSITION

Ø10.5, 10.9, 11.0, 11.5, 11.9, 12.0, 12.5, 12.9,  
13.0 TOTAL 100 POSITION FOR DRILL &  
END MILL

• 360° ROTATION

Unit:mm

CAPACITY RANGE	SIZE	WEIGHT (kg)
Ø1.0~Ø13.0	Ø174x90 <sup>mm</sup>	0.21

# Tooling Rack Stand

ORDER NO.VTC-20 CODE NO. 3405-221

NEW



Example

- Sult for different kind small machine
- Powerful desing
- Compact & with big capacity
- With rubber mate
- 3 size drawer could store
- Different size tools

LxWxH : 440x340x800 mm

VTC-20 3 DRAWERS

1 FLAT TABLE CAN

USING FOR VDG-, VEG, U2, VCF-500 ETC.

STRONG TYPE

WEIGHT: 27.71 KGS

DRAWER:

□ W x L x H: 330 x 315 x 130 mm

□ W x L x H: 330 x 315 x 280 mm



# Tool Cabinet



ALL THE OVERALL SIZE IS WITH WHEELS HEIGHT.

※COLOR MAY VARY



## 5 Drawers Roll Cabinet

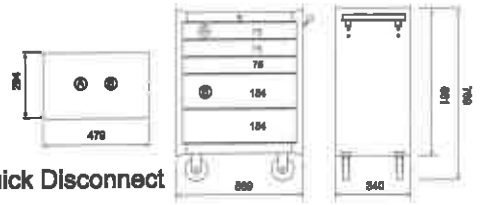
Cuft: 6.9'

Net Weight: 31.3 kgs

Gross Weight: 34 kgs

- Ball bearing slide with Quick Disconnect
- Heavy Duty 4"x1" Caster
- Double wall construction
- Electro - Powder Coating to Resist Scratch & solvent markings
- 10mm Top Mat
- All drawers appended to Drawer Liners
- Red color

※COLOR MAY VARY



ORDER NO.	CODE NO.
VTC-23	3405-144

570WX345DX860Hmm

	mm		
	W	D	H
DRAWERS	480	292	75
DRAWERS	480	292	154



## 7 Drawers Roll Cabinet

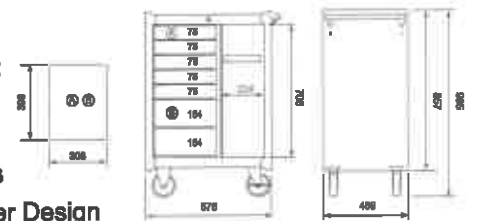
Cuft: 13'

Net Weight: 67.9 kgs

Gross Weight: 77.5 kgs

- Ergonomic Large Drawer Design
- Ball bearing slide with Quick Disconnect
- Heavy Duty 5"x2" Caster
- Double wall construction
- Electro - Powder Coating to Resist Scratch & solvent markings
- 10mm Top Mat
- All drawers appended to Drawer Liners
- Gray color

※COLOR MAY VARY



ORDER NO.	CODE NO.
VTC-25	3405-149

680WX460DX830Hmm

	mm		
	W	D	H
DRAWERS	308	395	75
DRAWERS	308	395	154



# Tooling Trolleys

ORDER NO.VTC-100 CODE NO.3405-154

※COLOR MAY VARY

NEW



WxDxH	873x500x880 mm
Package	1PC/1CTN/2.73CUFT
N.W.	23.91KGS
G.W.	25.90KGS

- Grey color



SIZE : 1500W x 750D x 800H mm

※COLOR MAY VARY

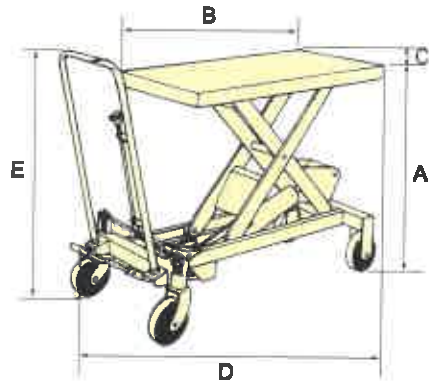
DESCRIPTION	W	D	H	N.W.	G.W.	CUFT
OVERALL	1500	750	800	69.7	74.04	4.68



## Hydro Lift Table



※COLOR MAY VARY



WITHOUT WOODEN CASE

ORDER NO.	A		B	C	D	E		Wheel	Brake Wheel	Load Capacity kgs	Weight	CODE NO.
	MAX. High From The Floor	MIN. Low From The Floor				Handle Bar High From The Floor	Overall Width					
VLT-300	900	270	815	500	1020	960	500	127 x 38	1	300	72	3405-170

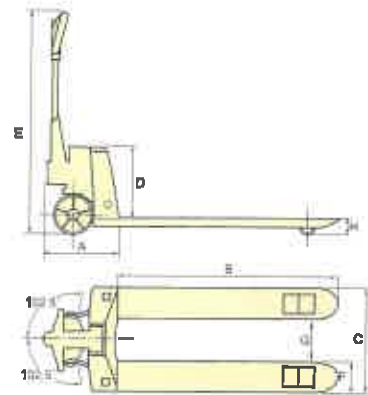


## Hydro Pallet Trolleys



※COLOR MAY VARY

WITHOUT WOODEN CASE



ORDER NO.	Overall Length	Overall Height	Body(Not Include Fork) A	The Fork Surface width F	Fork width C	Fork Length B	Fork Wide G	MAX. Fork Height D	MIN. Fork High From The Floor H	Load Capacity kgs	Weight Kgs	CODE NO.
	A+B	E		F	C	B	G	D	H	kgs		
HPT-20NS	1300	1200	390	160	520	910	200	200	85	2000		3405-181
HPT-20NM	1480	1200	390	160	520	1070	200	200	85	2000		3405-182
HPT-20WL	1610	1200	390	160	685	1220	365	200	85	2000		3405-183

TOOL CABINET



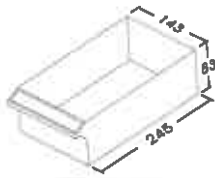
# Parts Cabinet



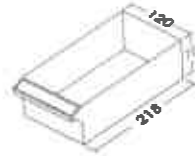
# VERTEX®

※COLOR MAY VARY

GREY COLOR



THE SIZE OF DRAWER  
245D x 143W x 83H (m/m)



THE SIZE OF DRAWER  
218D x 120W x 70H (m/m)



ORDER NO. VA6-212H



ORDER NO. VA6-330H



ORDER NO. VA7-324P



ORDER NO. VA7-448P

ORDER NO.	SIZE (mm)	DRAWER SIZE(mm)	METAL	DRAWER NUMBERS	WEIGHT(kgs)	CODE NO.
	W x D x H					
VA6-212H	362 x 265 x 571	245 x 143 x 83	STEEL PLATE COVER WITH ZINC. Drawer material: GPS	12PCS	10.8	3405-200
VA6-330H	533 x 264 x 937	245 x 143 x 83		30PCS	25.3	3405-201
VA7-324P	440 x 222 x 642	218 x 120 x 70		24PCS	15.5	3405-202
VA7-448P	586 x 222 x 937	218 x 120 x 70		48PCS	27.5	3405-203
VA1-525	586 x 222 x 350	218 x 90 x 55		25PCS	10	3405-204
VA1-575	586 x 222 x 937	218 x 90 x 55		75PCS	32.3	3405-205



# Tool Box

※COLOR MAY VARY

● COMES IN DIFFERENT COLOR



ORDER NO. VTB-102



ORDER NO. VTB-901



ORDER NO.	SIZE (mm)	MATERIAL	WEIGHT(kg)	CODE NO.
	W x D x H			
VTB-102	420 x 235 x 180	ABS	1.9	3405-300
VTB-901	378 x 182 x 144		0.9	3405-301



# Parts Storage

COLOR: RED, BLUE, YELLOW

- Easy parts storage
- Orgnize



ORDER NO.	SIZE	PACKED	EACH WEIGHT (kg)	CODE NO.
VHB-1218	120Wx180Dx80H mm	60 PCS/CASE	8.6	1021-100
VHB-1525	150Wx250Dx120H mm	36 PCS/CASE	9.6	1021-101
VHB-2035	200Wx350Dx150H mm	18 PCS/CASE	0.585	1021-102
VHB-2045	200Wx450Dx177H mm	12 PCS/CASE	0.8	1021-103
VHB-3045	300Wx450Dx177H mm	8 PCS/CASE	1.8825	1021-104

# Economical Pallet



PACKAGE 5PCS / SET

**NEW**



- Zinc Coating
- For Transport
- Light Weight Duty
- Recyclable
- Disposable: 1 Time Use
- Load: 500 Kgs

PARTS CABINET

ORDER NO.	SIZE	WEIGHT (kgs / 5 sets)	CODE NO.
VEPT-01	1100 x 1400 x 120 mm	85 kgs	3405-601
VEPT-02	1000 x 1100 x 120 mm	55 kgs	3405-602

# Heavy Duty Pallet

PACKAGE 5PCS / SET

**NEW**



- Heavy Duty
- Zinc Coating
- Material: Steel
- For Transport
- Multiple Use
- Load: 1800 Kgs

ORDER NO.	SIZE	WEIGHT (kgs / 5 sets)	CODE NO.
VHPT-H01	1100 x 1400 x 120 mm	215 kgs	3405-611

A circular window into a machine tool, showing a workpiece being machined. The background is a textured purple color. The window frame is metallic and curved.

MACHINING CENTER  
**ACCESSORIES**

- D1~D6 NC ROTARY TABLE SERIES
- D07~D8 MC POWER VISE
- D9 BASE PLATE SERIES
- D10 M/C ANGLE PLATE
- D11 M/C CLAMPING CUBE
- D12 ANGULAR HOLLOW BLOCKS
- D13~D17 FLEXIBLE LINE UP VISE







## • HIGH ACCURACY AND HIGH RIGIDITY

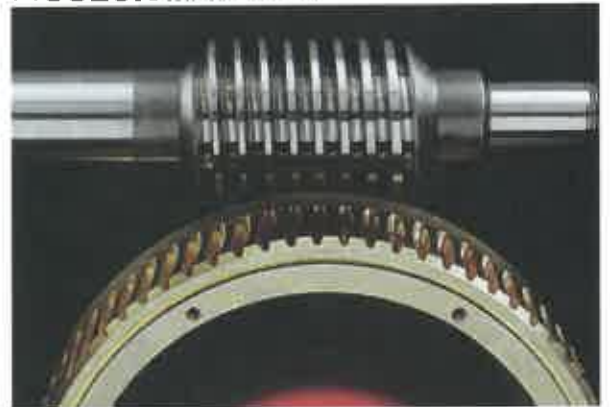
Adoption of new double-lead worm gear—engagement between worm wheel and worm shaft has been improved, and tooth profile has been modified—has contributed greatly to increased dynamic accuracy. To remove the defect of single-lead worm gear. Close-tolerance taper roller bearing assembly is used, and the rotating slide part is finished in a super precision manner, which in turn, implements highly improved overall accuracy.

## • SLEEVE TYPE CLAMPING MECHANISM

With this system, the Rotary Table is clamped by applying hydraulic pressure to the outer circumference of the turn table. Since the sleeve is positioned closest to the workpiece, the table clamp force is enlarged. This system is not only advantageous for heavy duty cutting but also helps improve the machining accuracy and extend the service life of the Rotary Table.

- This rotary table has been specifically developed to fulfill the requirements of a fully automatic machining process in association with a machine tool. They are used for milling, grinding and drilling of spindles, slots, planes or bores in the radial or axial direction of the workpiece.
- Can be equipped with stepping motor or DC/AC servo motors.
- Carefully designed, rigid construction to assure high and constant indexing accuracy.
- Can operate as function M or as 4th axis or more, in machining units or numerically controlled machines, and are equally capable of being fitted to any other type of non-NC machine-tools.
- Hardened and ground steel worm, mounted on high precision combined radial-axial bearings.
- Worm mounted on an axial support system, which allows adjustment and suppression of any backlash existing between the worm and the worm-wheel after long-time service.
- High precision  
Axial and radial runout within 0.01mm, Cumulative Indexing accuracy within 15 sec.

※ COLOR MAY VARY



**DOUBLE LEAD WORM GEARS SYSTEM**  
◆ New design/special material



**PROGRAMMABLE SERVO MOTOR CONTROLLER**

## ● SPECIFICATIONS

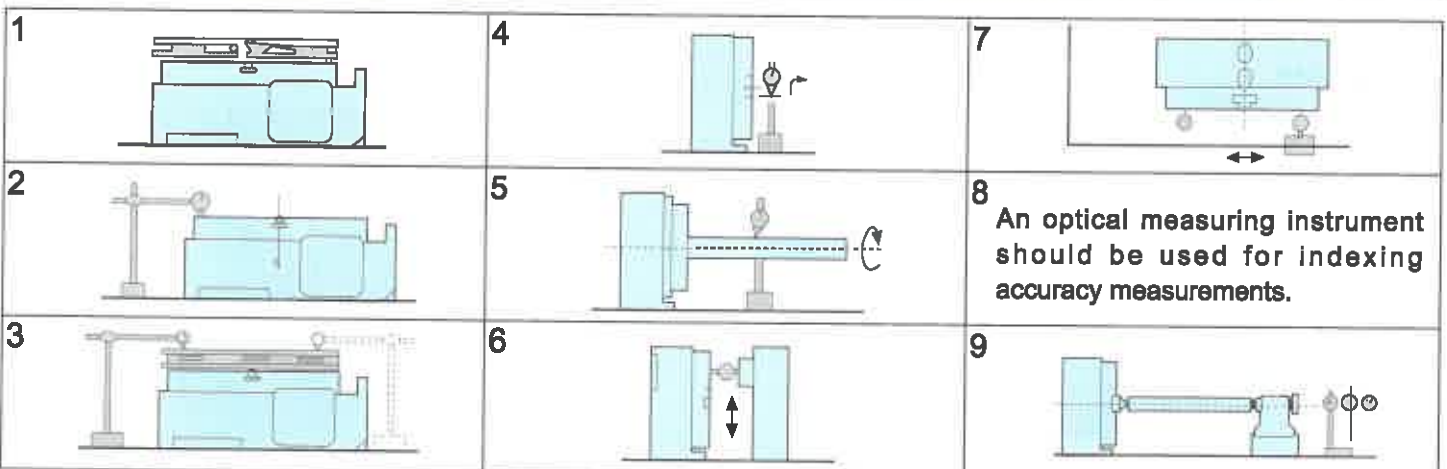
ORDER NO.	VNCM-150 $\frac{L}{R}$	VNCM-220 $\frac{L}{R}$	VNCM-250 $\frac{L}{R}$	VNCM-320 $\frac{L}{R}$	VNCM-400 $\frac{L}{R}$
Right-hand type	○	○	○	○	○
Left-hand type	○	○	○	○	○
Turntable diameter	Ø160	Ø225	Ø250	Ø320	Ø400
Table height(Horizontal pos.)	150	165	165	220	250
Table center height(Vertical pos.)	135	160	160	210	255
Center bore diameter	Ø35H7	Ø40H7	Ø40H7	Ø40H7	Ø40H7
T-slot size	12H7	12H7	12H7	14H7	14H7
Guide-block size	14h7	14h7	14h7	18h7	18h7
Number of worm wheel teeth	72	72	72	72	72
Servo motor type	FANUC $\alpha$ 3	FANUC $\alpha$ 6	FANUC $\alpha$ 6	FANUC $\alpha$ 12 FANUC $\alpha$ 6	FANUC $\alpha$ 12
Speed reduction ratio	1/90	1/180	1/180	1/180 1/360	1/180
Table graduation angle per 1 pulse	0.001°	0.001°	0.001°	0.001°	0.001°
Table rotation speed	22.2r.p.m./ (Motor 2,000r.p.m.)	11.1r.p.m./ (Motor 2,000r.p.m.)	11.1r.p.m./ (Motor 2,000r.p.m.)	11.1r.p.m./ (Motor 2,000r.p.m.) 5.5r.p.m./ (Motor 2,000r.p.m.)	11.1r.p.m./ (Motor 2,000r.p.m.)
Clamp method & Clamp torque (kg-m)	8/ (Air 5kg/cm <sup>2</sup> )	50/ (Hydraulic 35kg/ cm <sup>2</sup> )	50/ (Hydraulic 35kg/ cm <sup>2</sup> )	85/ (Hydraulic 35kg/cm <sup>2</sup> )	180/ (Hydraulic 35kg/ cm <sup>2</sup> )
Load capacity, horizontal(kg)	150	250	250	350	500
Load capacity, vertical(kg)	75	100	100	150	200
Inertia force (kg-cm-sec <sup>2</sup> )	4.3	12.3	12.3	38.5	99.8
Max.torque capacity of worm gear (kg-m)	15	48	48	78	170
Max. workpiece diameter	160	225	225	320	400
Cumulative indexing accuracy sec.	20"	15"	15"	15"	15"
Repeatability sec.	4"	4"	4"	4"	4"
Inertia force(convert into motor shaft) kg-cm-sec <sup>2</sup> X10 <sup>-2</sup>	0.2	0.24	0.34	1.85 1.35	1.94
Net weight (kg)	55	75	75	200	300
CODE NO.	4001-001	4001-002	4001-003	4001-004	4001-005

● Other makers' servo motors can be installed.

## ● ACCURACY STANDARD

Unit:mm

NO.	Inspection Item	Inspection Item
1	Table top flatness (concave)	Per overall length 0.01
2	Table top runout	0.015
3	Parallelism of table top and frame bottom	Per overall length 0.02
4	Table spindle center runout	0.01
5	Center bore runout	Hole end 0.01
		Per 100mm 0.01
6	Perpendicularity of table top to frame bottom	Per overall length 0.02
7	Perpendicularity of table top to frame bottom guide block	Per overall length 0.02
8	Cumulative indexing accuracy	15"
9	Parallelism of center line between headstock and tailstock to frame bottom guide block	Per 300mm 0.02
10	Height difference of both center lines of headstock (Tailstock center line should be higher)	0.02





# NC-Rotary Table

ORDER NO.VNCX-10 CODE NO.4001-010



- Motor case setted on the back of the body, increased the space for moving forward and backward, suitable for large or small NC machine using.
- Use of precision lead worm gear assures highly accurate dividing independently of table rotating direction. Further, no backlash will be produced.
- Wide range of machining is accomplished by connecting the Drive Table with Mcode of machining center.
- When used with machining center, the Drive Table will widen the range of applications; circular cutting dividing into equal parts, dividing into unequal parts, lead cutting, can cutting etc.
- MACHINE ZERO AND WORK ZERO. Zero Return Function to either Zero.
- BACKLASH COMPENSATION.
- BUILT-IN PNEUMATIC BRAKE FUNCTION.

## Dimensions

Unit:mm

Item	Unit:mm
Table diameter	250
Table height	315
Center height	160
Center hole diameter	32
Table reference groove width	14
Key way	18
Clamping force(kgf-m) Penumatic	20
Allowable work diameter	250
Allowable weight	Horizontal setup Vertical setup
	200 100
Allowable work Inertia(kgf-cm sec <sup>2</sup> )	12.5
Total reduction ratio	1:90
Rotary speed(rpm)	11.1
Allowable machine torque(kgf-m)	48

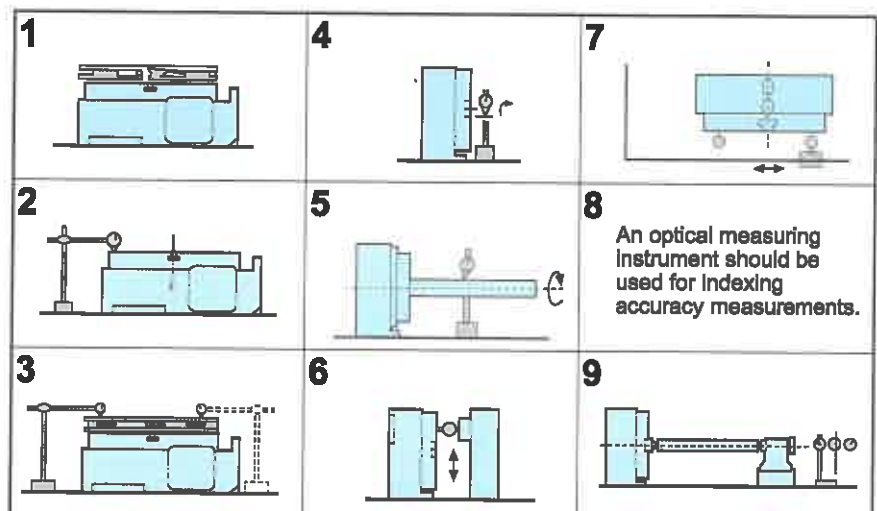
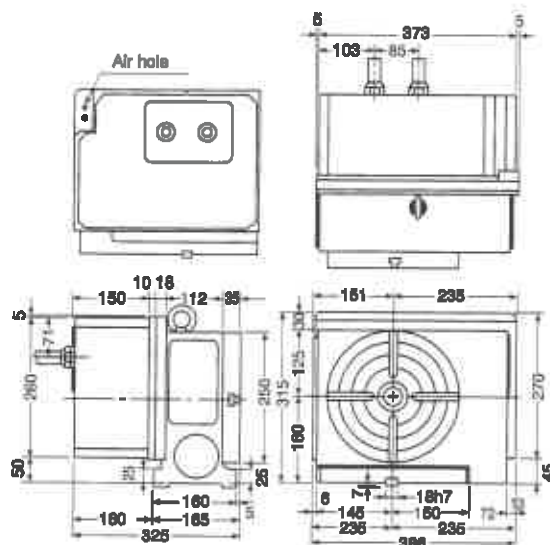
## ACCURACY STANDARD

Unit:mm

NO	Inspection Itme	Tolerance
1	Table top flatness(concave)	Per overall length 0.01
2	Table top runout	0.015
3	Parallelism of table top and frame bottom	Per overall length 0.02
4	Table spindle center runout	0.01
5	Center bore runout	Hole end Per 100mm 0.01 0.01
6	Perpendicularity of table top to frame bottom	Per overall length 0.02
7	Perpendicularity of table top to frame bottom guide block	Per overall length 0.02
8	Cumulative Indexing accuracy	15"
9	Parallelism of center line between headstock and tailstok to frame bottom guide block	Per 300mm 0.02
10	Height difference of both headstock and tailstock center lines(Tallstock center line should be higher)	0.02

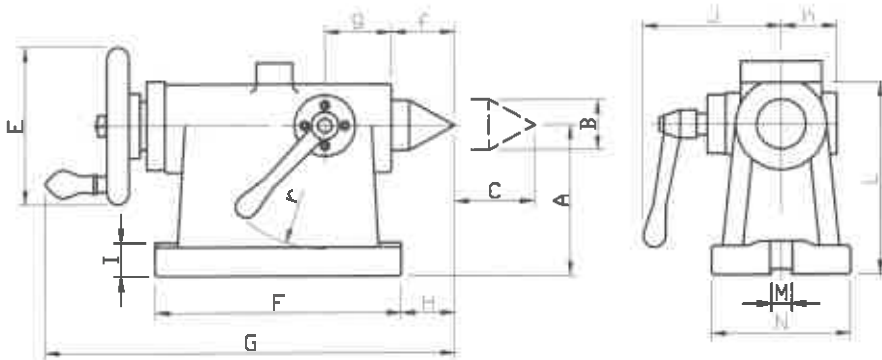
NC-ROTARY TABLE

## VNCX-10





# Tailstock For NC Rotary Table



Unit:mm

Main dimension		Center height A	Center diameter B	Storke C	pointed end diameter D	Handle diameter E	Base dimensions FXM	G	H	I	J	K	L
ORDER NO.	For												
TS-135	VNCM-150	135	ø45 MT#3	55	ø14	125	215x120	332	25	25	109	-	164
TS-135-MT3													
TS-160	VNCM-220 VNCX-10 VNCM-250	180	ø45 MT#3	55	ø18	140	230x130	356	30	30	129	53	193
TS-160-MT3													
TS-210	VNCM-320	210	ø45 MT#3	55	ø18	140	230x146	356	30	30	129	53	243
TS-210-MT3													

Unit:mm

Main dimension		Guide block size M	c	u	f	g	h	j	r	Net weight (kgs)	CODE NO.
ORDER NO.	For										
TS-135	VNCM-150	18	42	19	40	69	44	70	80	20.6	4002-001
TS-135-MT3			46								4002-001A
			46								
TS-160	VNCM-220 VNCX-10 VNCM-250	18	49	19	45	70	52	80	95	23.1	4002-002
TS-160-MT3			51								4002-002A
TS-210	VNCM-320	18	51	23	45	70	52	80	95	29.4	4002-003
TS-210-MT3			57								4002-003A

Listed in the above table are examples of applicable models. Those not listed above should be selected so that the center height of the rotary table and dividing heads is the same as that of the tailstock.

4005~SERIES

PLEASE SEE A SYSTEM FORM PAGE A25 TO A51



MC POWER VISE

**SAME HEIGHT GUARANTEE**

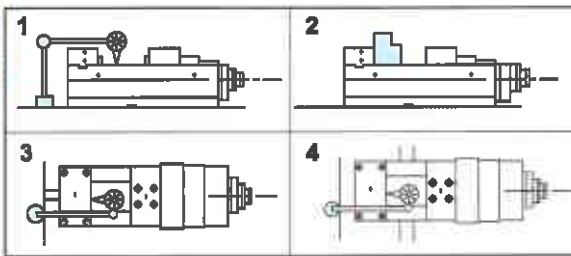


**TOGGLE JOINT MECHANISM  
DESIGN FOR HEAVY DUTY  
WORKING**

### Features

- Compact design. Great clamping capacity & rigid.
- "Toggle joint mechanism". Provides a steady clamping force against shocks and vibrations during the operations, since it clamps the workpiece resiliently with an aid of the "disc-springs" mounted inside.
- Strong clamping force.
- Large jaw stroke range.
- Exclusive Power Vise provide same height same position for horizontal and vertical MC, NC, Machine.
- Body is made of FCD60 high quality ductile cast iron, resists deflection or bending.
- Sliding bed ways flame hardened and ground.
- Concealed spindle for protection against chips and dirt.
- Quick of clamping & locking and easy of operation.

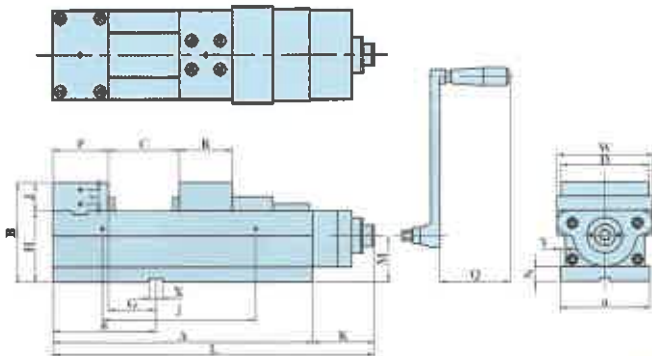
### INSPECTION SPECIFICATION



NO.	Inspection Item	Per (100mm)	Guaranteed
1	Parallelism: table face to bottom of bed.		0.01/100mm
2	Squareness :between table face and jaw plate.		0.02/100mm
3	Squareness: keways on bottom of table face to jaw plate.		0.02/100mm
4	Parallelism: table face of the table face block to bottom of bed.		0.02/100mm

### CLAMPING CAPACITY

ORDER NO.	JAW J	JAW Open C	B	MAX. Clamping Force (KN)	G.W. kg
VQC-100	35	128	120	30	26.2
VQC-125	40	205	140	40	40.4
VQC-160	45	275	165	60	72.3
VQC-160L	45	355	165	60	78.6
VQC-200L	70	405	190	60	108



ORDER NO.	A	B	a	D	P	R	G	H	J	K	L
VQC-100	273	120	105	99	73	64	39	85	35	82.5	356.5
VQC-125	366	140	126	124.5	78	74	66	100	40	86	452
VQC-160	456	165	161	159.5	86	86	58	120	45	98	554
VQC-160L	536	165	162	160	86	86	58	120	45	98	634
VQC-200L	616	180	202	200	102	98	74	120	70	95	711

ORDER NO.	M	N	Q	W	X	Y	C OPEN	t	J	n	CODE NO.
VQC-100	50	15	74	110	14	6.5	128	20	105	112	4005-004
VQC-125	65	21	74	135	18	7	205	20	216	145	4005-005
VQC-160	78	21	94	170	18	7	275	20	286	145	4005-006
VQC-160L	78	21	94	174	18	7	355	20	286	145	4005-007
VQC-200L	75	21	96	217	18	7	405	20	386	177	4005-008



### ADJUSTING METHOD

1. FIXED COLLAR
2. TURN BY WENCH TO GET NO.
- 0, 1, 2, 3, 4. TO HAVE CLAMPING FORCE
- 3.NO.2 IS MOST SUIT FOR WORKING.

### CLAMPING FORCE CHART

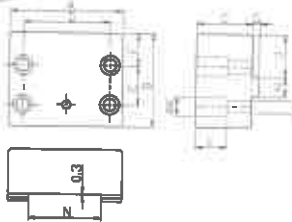
ORDER NO.	SCALE				
	4	3	2	1	0
VQC-100	-	30KN	21KN	12KN	6KN
VQC-125	-	40KN	28KN	16KN	8KN
VQC-160	60KN	46KN	32KN	18KN	10KN
VQC-160L	60KN	46KN	32KN	18KN	10KN
VQC-200L	60KN	46KN	32KN	18KN	10KN

**OPTIONAL:** Soft jaw for different shape workpiece FJ & MJ can for cutting

FJ



Fixed side



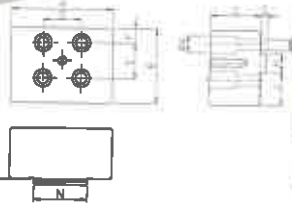
### SOFT FIXED JAW

ORDER NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	CODE NO.
VQC-100FJ	99.5	73	50	76	35	19	6	18	27.5	17	26	11	55	4005-013
VQC-125FJ	124.5	91	60	88	45	28.5	8	24	40	19	33.5	13	63	4005-014
VQC-160FJ	159.5	102	60	124	50	34	9	28	45	22	30	15	84	4005-015
VQC-160L-FJ	159.5	102	60	124	50	34	9	28	45	22	30	15	84	4005-016
VQC-200L-FJ	200	122	75	140	62	40	9	28	57	25	37	17	100	4005-016A

MJ

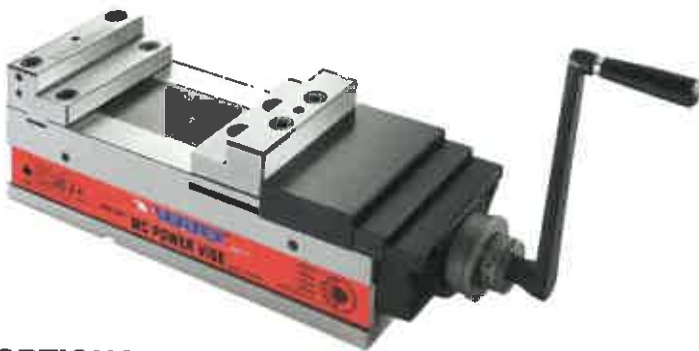


Movable side



### SOFT MOVEABLE JAW

ORDER NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	CODE NO.
VQC-100MJ	99.5	64	50	37	35	14.5	6	18	23	17	26	11	51.5	4005-017A
VQC-125MJ	124.5	87	60	35	42	29	8	24	38	19	33.5	13	59.5	4005-017
VQC-160MJ	159.5	102	60	56	50	34	9	28	45	22	30	15	80.5	4005-018
VQC-160L-MJ	159.5	102	60	56	50	34	9	28	45	22	30	15	80.5	4005-019
VQC-200L-MJ	200	117	75	62	59	39	9	28	54.5	25	37	17	95	4005-019A

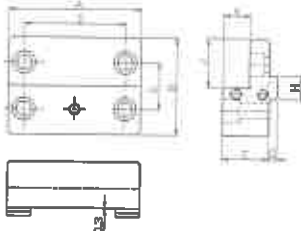


WISE JAWS CAN TURN 180° FOR YOUR REQUIREMENT.

MC POWER VISE

**OPTIONAL:** Hard jaw for thin type workpiece

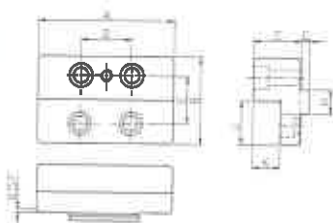
FJL



### L TYPE FIXED JAW

ORDER NO.	A	B	C	D	E	G	H	J	K	CODE NO.
VQC-100FJL	99.5	73	35	76	35	6	18	36.5	20	4005-010B
VQC-125FJL	124.5	78	40	88	45	8	24	39	20	4005-008A
VQC-160FJL	159.5	86	50	124	50	9	28	43	25	4005-009
VQC-160L-FJL	159.5	86	50	124	50	9	28	43	25	4005-010
VQC-200L-FJL	200	102	70	140	62	9	28	51	35	4005-010A

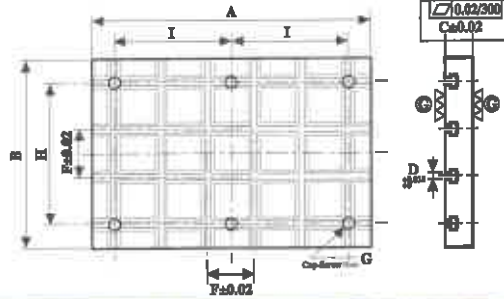
MJL



### L TYPE MOVEABLE JAW

ORDER NO.	A	B	C	D	E	G	H	J	K	CODE NO.
VQC-100MJL	99.5	64	35	37	35	6	18	32	20	4005-013B
VQC-125MJL	124.5	74	40	35	42	8	24	37	20	4005-011
VQC-160MJL	159.5	86	50	56	50	9	28	43	25	4005-012
VQC-160L-MJL	159.5	86	50	56	50	9	28	43	25	4005-013
VQC-200L-MJL	200	98	70	62	59	9	28	49	35	4005-013A





## SUB TABLE T-SLOT TYPE

Sub-plates used on vertical machining centers and larger milling machines.

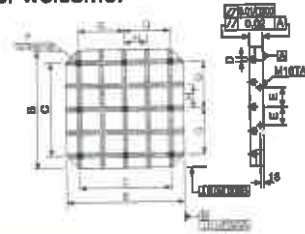
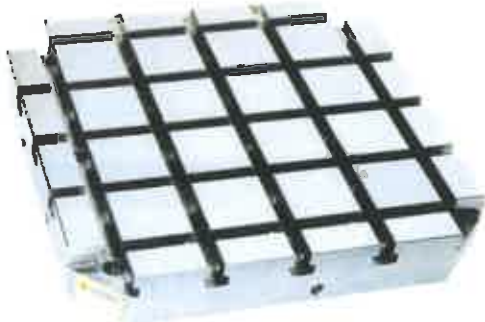
They protect the surface of machine table, and provide larger space for setting workpieces and minimize loss of operating time of expensive machine tools.

Material: Close grained cast iron, Annealed  
Finish: Top and bottom ground

Unit:mm

ORDER NO.	A	B	C(±0.02)	D	E	F(±0.02)	G	kg	CODE NO.
TBP-6040	600	400	60	14	50	100	Ø18	120	4006-001
TBP-6050	600	500	60	14	50	100	Ø18	150	4006-002
TBP-6060	600	600	60	14	50	100	Ø18	179	4006-003
TBP-8040	800	400	60	14	50	100	Ø18	160	4006-004
TBP-9045	900	450	60	14	50	100	Ø18	204	4006-005
TBP-10050	1000	500	60	14	50	100	Ø18	248	4006-006
TBP-6040D	600	400	75	18	50	100	Ø18	100	4006-007
TBP-6050D	600	500	75	18	50	100	Ø18	125	4006-008
TBP-6060D	600	600	75	18	50	100	Ø18	149	4006-009
TBP-8040D	800	400	75	18	50	100	Ø18	133	4006-010
TBP-9045D	900	450	75	18	50	100	Ø18	169	4006-011
TBP-10050D	1000	500	75	18	50	100	Ø18	207	4006-012

Special dimension's order welcome.

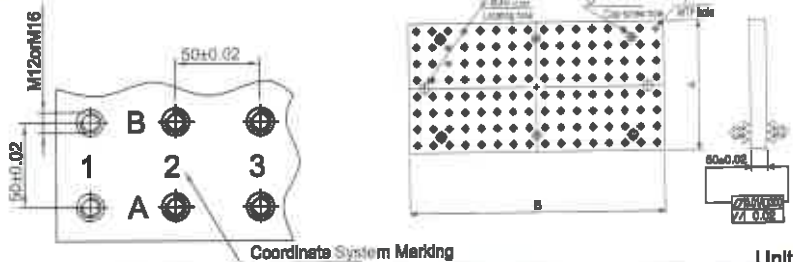


## SQUARE TYPE

Unit:mm

ORDER NO.	A(±0.02)	B	C	D(H7)	E	F	G(±0.02)	H(±0.02)	kg	CODE NO.
SBP-4040	60	400	320	14	55	Ø18	160	80	56	4006-020
SBP-5050	60	500	400	14	75	Ø18	200	100	90	4006-021
SBP-6363	60	630	500	14	100	Ø18	250	125	149	4006-022
SBP-8080	60	800	640	14	135	Ø18	320	160	230	4006-023
SBP-4040A	75	400	320	18	55	Ø18	160	80	85	4006-024
SBP-5050A	75	500	400	18	75	Ø18	200	100	118	4006-025
SBP-6363A	75	630	500	18	100	Ø18	250	125	195	4006-026
SBP-8080A	75	800	640	18	135	Ø18	320	160	298	4006-027

Special dimension's order welcome.



## SUB TABLE THERAD TYPE

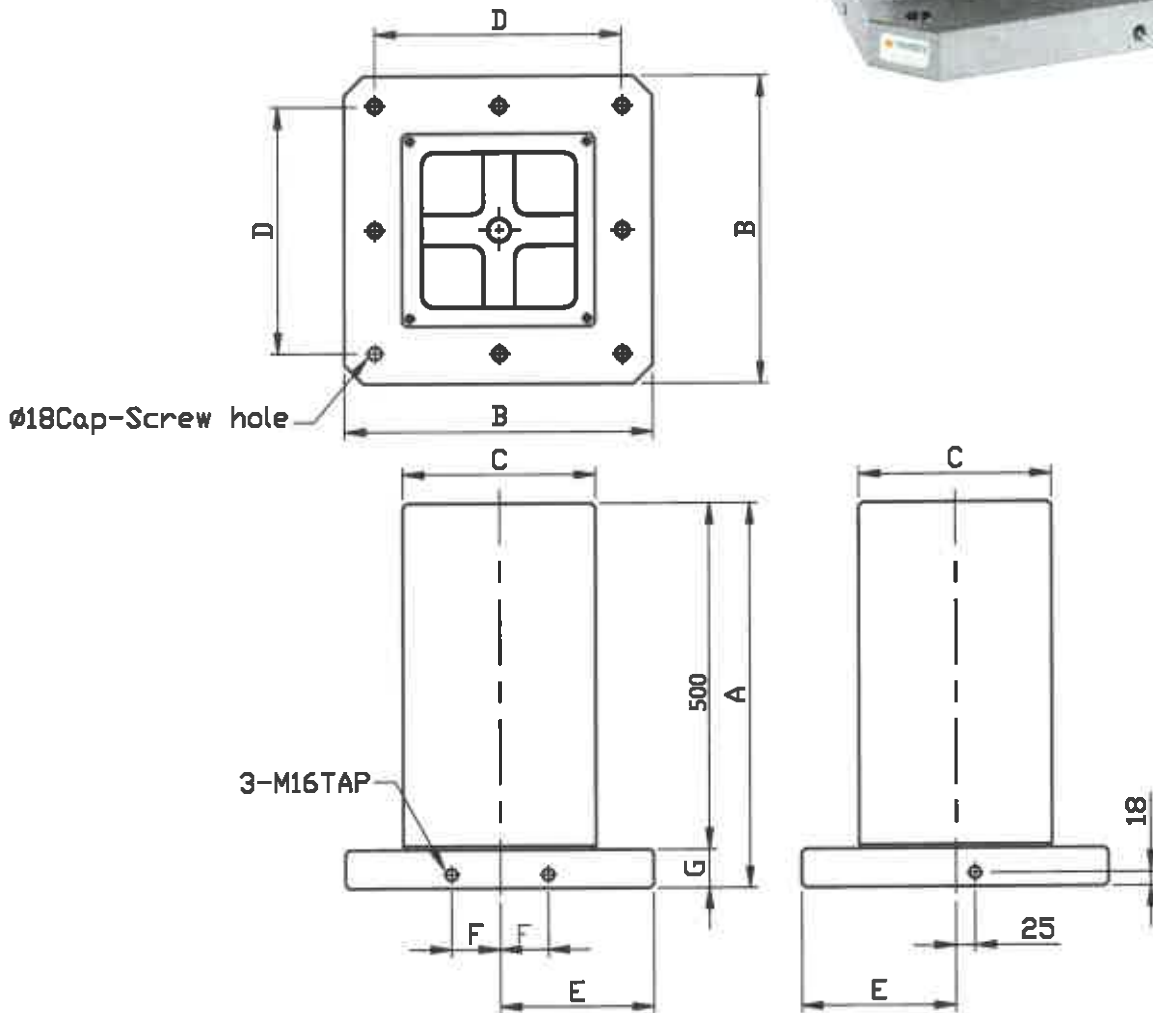
Unit:mm

ORDER NO.	A	B	D	T		NO. OF MTP hole	KGS	CODE NO.
				(F7)	TAP			
HBP-4060	400	600	Ø18	Ø12	M12	96	90	4006-030
HBP-5060	500	600	Ø18	Ø12	M12	120	112	4006-031
HBP-6060	600	600	Ø18	Ø12	M12	144	134	4006-032
HBP-4080	400	800	Ø18	Ø12	M12	128	119	4006-033
HBP-4590	450	900	Ø18	Ø12	M12	162	151	4006-034
HBP-50100	500	1000	Ø18	Ø12	M12	200	187	4006-035
HBP-4060T	400	600	Ø18	Ø16	M16	96	87	4006-036
HBP-5060T	500	600	Ø18	Ø16	M16	120	108	4006-037
HBP-6060T	600	600	Ø18	Ø16	M16	144	129	4006-038
HBP-4080T	400	800	Ø18	Ø16	M16	128	115	4006-039
HBP-4590T	450	900	Ø18	Ø16	M16	162	146	4006-040
HBP-50100T	500	1000	Ø18	Ø16	M16	200	180	4006-041

Special dimension's order welcome.



- Material/Finish:  
Material:FC30(JIS)/GG30(DIN)  
Heat treated (Normalized)
- Application:Good for horizontal M/C
- Features:Free to finish an actual required hole pattern for your special jig.
- eye bolt included.
- COLOR MAY VARY



## SPECIAL DESIGN WELCOM

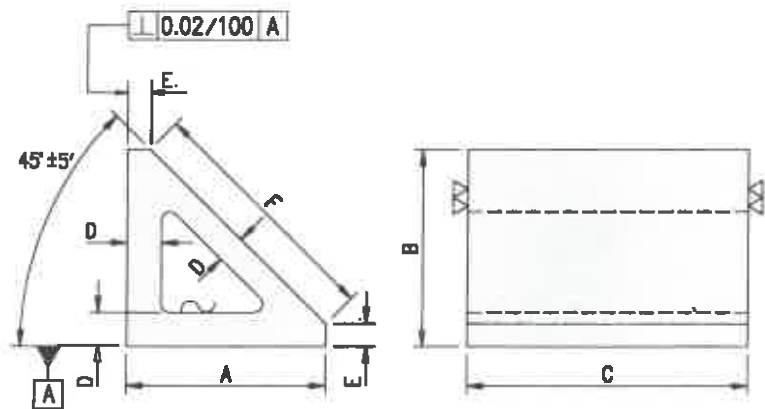
ORDER NO.	A	B	C	D	E	F	G	NO.of Mounting holes	kg	CODE NO.
BP07-10	500	400	250	320	200	55	50	4	175	4007-020
BP07-20	600	500	300	400	250	75	50	8	240	4007-021
BP07-30	700	630	350	500	315	100	50	8	390	4007-022
BP07-40	800	800	500	640	400	135	50	8	745	4007-023



# Angular Hollow Block 45°



● COLOR MAY VARY



**Material:** Cast Iron  
 FC-300  
 GG-30

ORDER NO.	A	B	C	D	E	F	kgs	CODE NO.
BC45-15	100	100	150	14	10	127	4.5	4007-030
BC45-30	100	100	300	14	10	127	8.8	4007-031
BC45-151	200	200	150	22	20	255	15.0	4007-032
BC45-301	200	200	300	22	20	255	29.0	4007-033

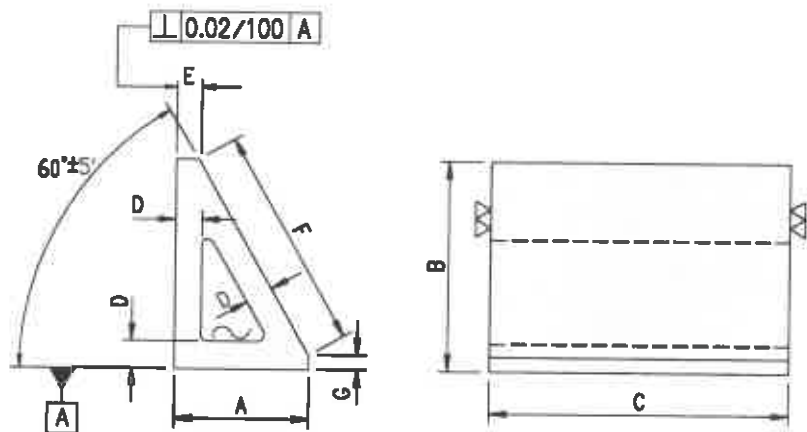
ANGULAR HOLLOW BLOCK



# Angular Hollow Block 30°

● COLOR MAY VARY

T-SLOT TYPE



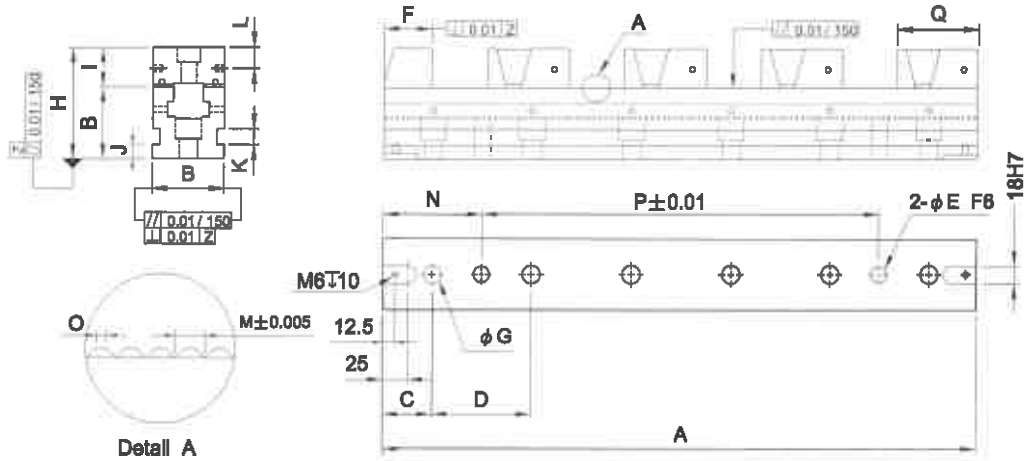
**Material:** Cast Iron  
 FC-300  
 GG-30

ORDER NO.	A	B	C	D	E	F	G	kgs	CODE NO.
BC30-15	83	100	150	12	9	108	6	3.0	4007-040
BC30-30	83	100	300	12	9	108	6	6.0	4007-041
BC30-151	125	200	150	20	14	222	8	9.5	4007-042
BC30-301	125	200	300	20	14	222	8	19.0	4007-043

# Flexible Line Up Vice

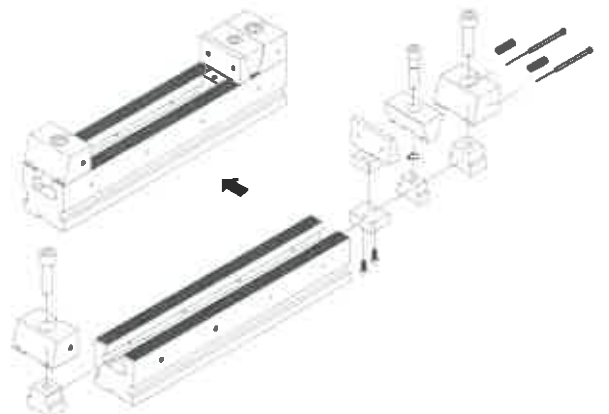
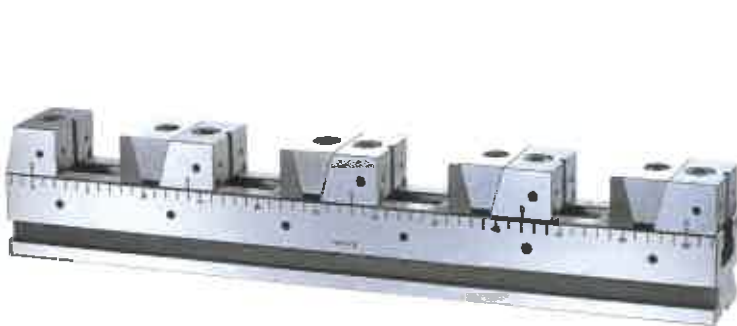


**STANDARD STYLE  
4 POSITION FOR EACH ITEM.**



ORDER NO.	A	B±0.01	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	KG	CODE NO.
VFS-5030	300	50	30	80	12	36	14	75	24.8	10	12	12.5	1.5	70	0.5	160	60	6.5	4007-050
VFS-5030G			50	100										100		100			
VFS-5040	400	50	40	80	12	36	14	75	24.8	10	12	12.5	1.5	80	0.5	240	60	8.5	4007-052
VFS-5040G			50	100										100		200			
VFS-5050	500	50	50	80	12	36	14	75	24.8	10	12	12.5	1.5	90	0.5	320	60	10	4007-054
VFS-5050G			100	100										300					
VFS-5060	600	50	60	80	12	36	14	75	24.8	10	12	12.5	1.5	100	0.5	400	60	11.5	4007-056
VFS-5060G			50	100										100		400			
VFS-5070	700	50	70	80	12	36	14	75	24.8	10	12	12.5	1.5	110	0.5	480	60	13	4007-058
VFS-5070G			50	100										100		500			
VFS-7240	400	72	50	100	16	48	18	110	39.7	14	16	21.3	2.0	100	0.7	200	82	19	4007-060
VFS-7250	500	72	50	100	16	48	18	110	39.7	14	16	21.3	2.0	100	0.7	300	82	25	4007-061
VFS-7260	600	72	50	100	16	48	18	110	39.7	14	16	21.3	2.0	100	0.7	400	82	27	4007-062
VFS-7270	700	72	50	100	16	48	18	110	39.7	14	16	21.3	2.0	100	0.7	500	82	30	4007-063

**Material : tool steel  
Hardness : over HRC55**





# Flexible Line UP Vice



one workpieces



two workpieces



three workpieces



four workpieces



five workpieces

ONE WAY FIX JAW TYPE



six workpieces



seven workpieces

## Maximum width of the workpieces can be clamped

ORDER NO.	One workpiece	Two workpieces	Three workpieces	Four workpieces
VFS-5030	203	71	27	--
VFS-5040	303	121	60	30
VFS-5050	403	171	94	55
VFS-5060	503	221	127	80
VFS-5070	603	271	160	105
VFS-7240	269	93	35	--
VFS-7250	369	143	68	30
VFS-7260	469	193	101	55
VFS-7270	569	243	135	80

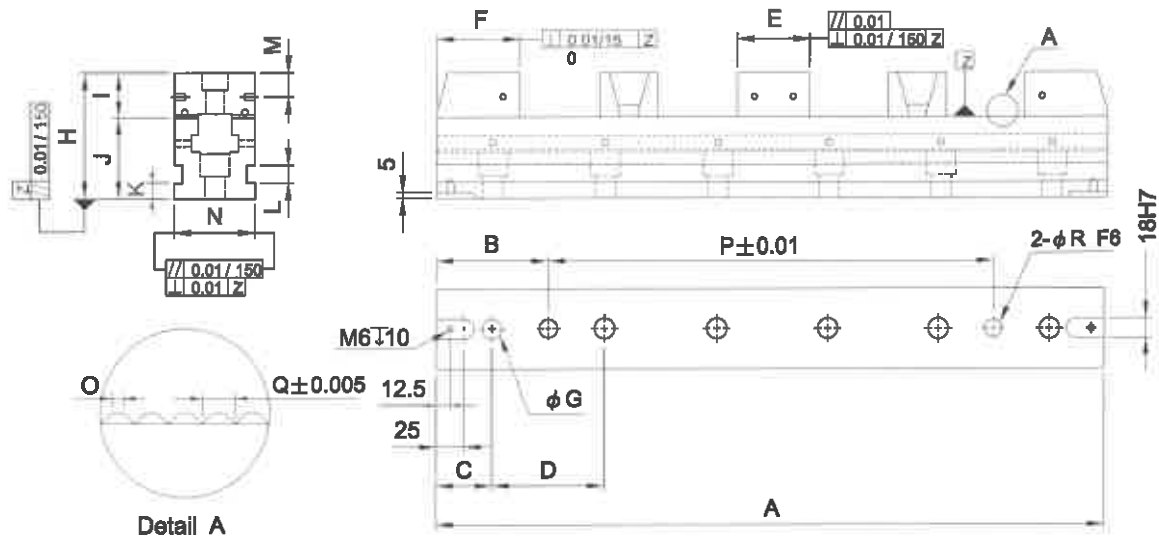
ORDER NO.	Five workpiece	Six workpiece	Seven workpiece	Eight workpiece	Nine workpiece
VFS-5030	--	--	--	--	--
VFS-5040	--	--	--	--	--
VFS-5050	32	16	--	--	--
VFS-5060	52	33	20	--	--
VFS-5070	72	50	34	22	13
VFS-7240	--	--	--	--	--
VFS-7250	--	--	--	--	--
VFS-7260	28	--	--	--	--
VFS-7270	48	26	--	--	--



# Flexible Line UP Vice

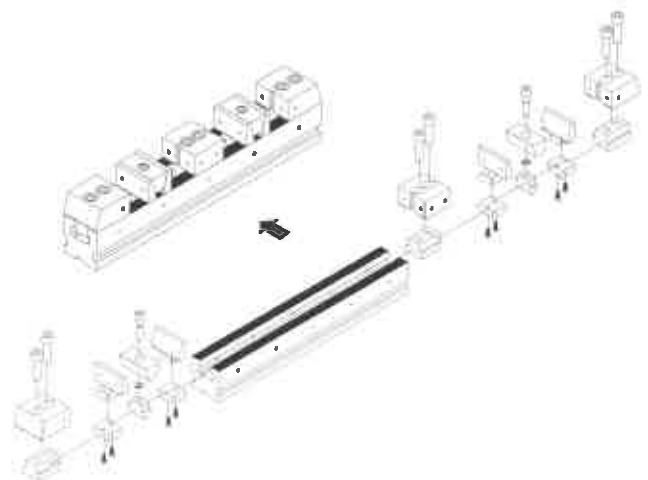
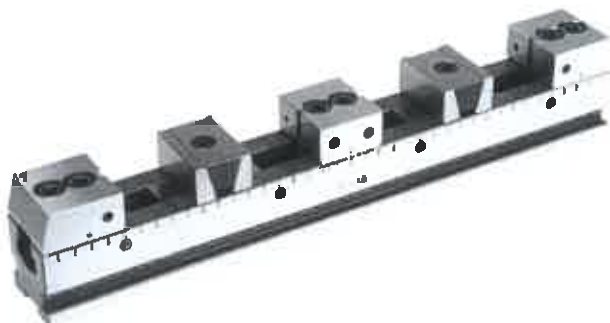


**STANDARD STYLE**  
**4 POSITION FOR EACH ITEM.**



ORDER NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	KG	CODE NO.
VFL-5030	300	70	30	80	44	50	14	75	24.8	50	10	12	12.5	50	0.5	160	1.5	12	7	4007-080
VFL-5030G		100	50	100												100				4007-081
VFL-5040	400	80	40	80	44	50	14	75	24.8	50	10	12	12.5	50	0.5	240	1.5	12	7.6	4007-082
VFL-5040G		100	50	100												200				4007-083
VFL-5050	500	90	50	80	44	50	14	75	24.8	50	10	12	12.5	50	0.5	320	1.5	12	9	4007-084
VFL-5050G		100	50	100												300				4007-085
VFL-5060	600	100	60	80	44	50	14	75	24.8	55	10	12	12.5	50	0.5	400	1.5	12	11	4007-086
VFL-5060G			50	100																4007-087
VFL-5070	700	110	70	80	44	50	14	75	24.8	50	10	12	12.5	50	0.5	480	1.5	12	12	4007-088
VFL-5070G		100	50	100												500				4007-089
VFL-7240	400	100	50	100	65	75	18	110	39.7	72	14	16	21.3	72	0.7	200	2.0	16	19	4007-090
VFL-7250	500	100	50	100	65	75	18	110	39.7	72	14	16	21.3	72	0.7	300	2.0	16	27	4007-091
VFL-7260	600	100	50	100	65	75	18	110	39.7	72	14	16	21.3	72	0.7	400	2.0	16	25	4007-092
VFL-7270	700	100	50	100	65	75	18	110	39.7	72	14	16	21.3	72	0.7	500	2.0	16	27.5	4007-093

**Material: tool steel**  
**Hardness: over HRC55**





one workpieces



three workpieces



two workpieces



four workpieces



five workpieces

TOW WAY FIX JAW TYPE



six workpieces



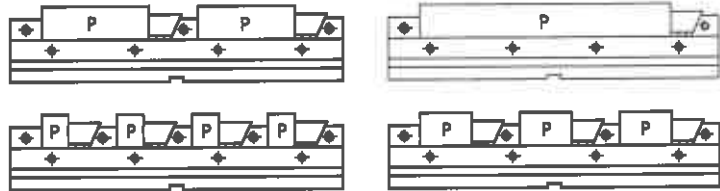
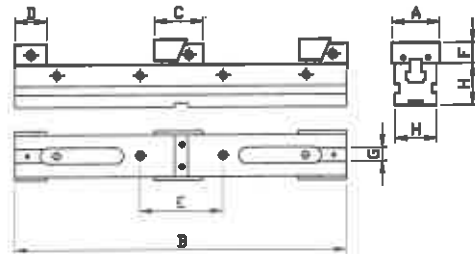
seven workpieces

## Maximum width of the workpieces can be clamped

ORDER NO.	One workpiece	Two workpieces	Three workpieces	Four workpieces	Five workpieces
VFL-5030	176	82	32	21	--
VFL-5040	276	132	65	46	23
VFL-5050	376	182	98	71	43
VFL-5060	476	232	132	96	63
VFL-7240	217	100	33	20	--
VFL-7250	317	150	65	45	18
VFL-7260	417	200	100	70	36
VFL-7270	517	250	133	95	56

ORDER NO.	Six workpiece	Seven workpieces	Eight workpieces	Nine workpieces	Ten workpieces	Eleven workpieces
VFL-5030	--	--	--	--	--	--
VFL-5040	17	--	--	--	--	--
VFL-5050	34	19	15	--	--	--
VFL-5060	50	33	28	17	14	--
VFL-7240	--	--	--	--	--	--
VFL-7250	--	--	--	--	--	--
VFL-7260	27	--	--	--	--	--
VFL-7270	44	23	18	--	--	--





ORDER NO.	B	H	A	C	D	E	F	G	1P	2P	3P	4P	KGS	SCREW	CODE NO.								
VFN-6030	300	50	59	55~58	38	100	25	16	208	75	30	8	7	M8	4007-131								
VFN-6040	400								305	125	64	33	9		4007-132								
VFN-6050	500								408	175	96	58	10		4007-133								
VFN-6060	600								508	225	129	83	12		4007-134								
VFN-6070	700								608	275	162	108	14		4007-135								
VFN-8540	400								75	84	70~75	50	40		40	16	275	100	41	12	22	M10	4007-136
VFN-8550	500																375	150	75	37	26		4007-137
VFN-8560	600	475	200	108	62	30	4007-138																
VFN-8570	700	575	250	141	87	33	4007-139																
VFN-8580	800	675	300	174	102	37	4007-140																

### Maximum width of the workpieces can be clamped

ORDER NO.	Maximum width of the workpieces can be clamped			
	One workpiece 1P	Two workpieces 2P	Three workpieces 3P	Four workpieces 4P
VFN-6030	208	75	30	8
VFN-6040	305	125	64	33
VFN-6050	408	175	96	58
VFN-6060	508	225	129	83
VFN-6070	608	275	162	108
VFN-8540	275	100	41	12
VFN-8550	375	150	75	37
VFN-8560	475	200	108	62
VFN-8570	575	250	141	87
VFN-8580	675	300	174	102



LATHE MACHINE  
**ACCESSORIES**

E1~E8 LIVE CENTER

E9~E22 2/314 JAW CHUCKS / SOFT/HARD JAW

E23~E24 SUPER HIGH SPEED THROUGH-HOLE ROTARY HYDRAULIC CYLINDER

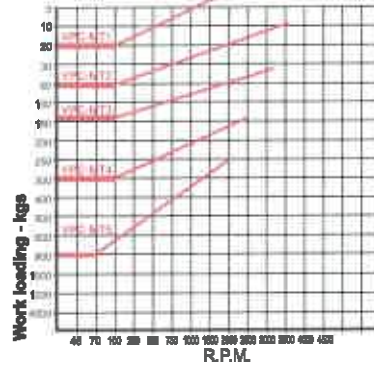
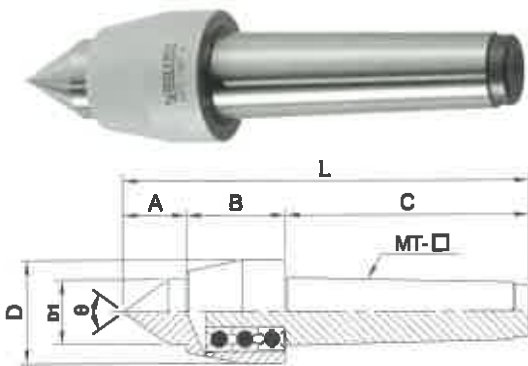
E25~E26 LATHE COLLET

E27~E28 TOOL POST GRINDER

E29~E68 VDI TOOL HOLDERS SERIES

E69~E75 QUICK CHANGE TOOL POST & HOLDERS





- Center is made of SCM420 alloy steel by heat treatment to provide higher rigidity (HRC60°±2°) and satisfied wear-resistance.
- Center is constituted by ball bearings assembly.
- Applicable to middle-speed & high-speed lathe with light load.

※Suggested tallstock pressure under 6 kg/cm<sup>2</sup>

FOR VPC-TYPE

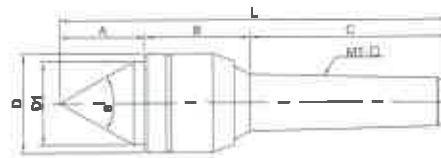
Unit:mm

ORDER NO.	A	B	C	D	D1	L	Accuracy	Speed Max R.P.M.	θ	G.W. weight kgs	PACKING LxWxH	CODE NO.
VPC-MT1	21	31	56	32	16	108	0.005	3200	60°	0.3	115 x 136 x 38	5001-001
VPC-MT2	26	37	69	40	22	132	0.005	2800	60°	0.5	140 x 45 x 45	5001-002
VPC-MT3	32	46	86	45	26	164	0.005	2000	60°	0.9	170 x 50 x 52	5001-003
VPC-MT4	34	46	108	48	30	188	0.005	1800	60°	1.3	195 x 58 x 56	5001-004
VPC-MT5	50	62	136	68	45	248	0.005	1500	60°	3.2	268 x 86 x 77	5001-005

# Live Lathe Center



A TYPE



B TYPE



- Center shaft & main body is made of SCM420 alloy steel by heat treatment to provide higher rigidity (HRC60°±2°) and satisfied wear-resistance.
- Center is constituted by thrust ball bearing, needle roller bearings & ball bearings assembly.
- Applicable to middle-speed & high-speed lathe with heavy load.

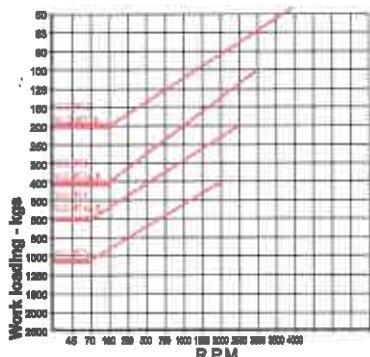
※ B TYPE SUITABLE FOR SMALL -WORKPIECE MACHINING.

※Suggested tallstock pressure under 6 kg/cm<sup>2</sup>

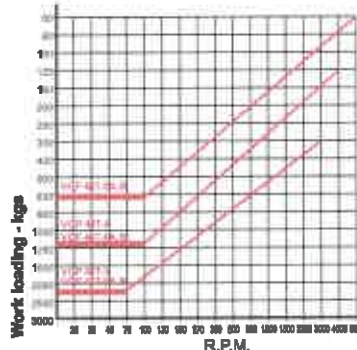
Unit:mm

ORDER NO.	TYPE	A	B	C	D	D1	d	L	Accuracy	Speed Max R.P.M.	θ	G.W. weight kgs	PACKING LxWxH	CODE NO.
VLC-212	MT2A	28	35	69	32	23	-	132	0.005	4000	60°	0.3	173 x 43 x 40	5001-010
VLC-213	MT3A	36	44	86	41	35	-	166	0.005	3000	60°	0.9	198 x 67 x 51	5001-011
VLC-214	MT4A	41	51	108	47	40	-	200	0.005	2500	60°	1.5	240 x 70 x 61	5001-012
VLC-215	MT5A	54	72	136	65	52	-	262	0.005	2000	60°	3.8	290 x 92 x 80	5001-013
VLC-213B	MT3B	46	44	86	41	25	10	176	0.005	3000	60°	0.9	198 x 67 x 51	5001-014
VLC-214B	MT4B	55	51	108	47	32	12	214	0.005	2500	60°	1.5	240 x 70 x 61	5001-015

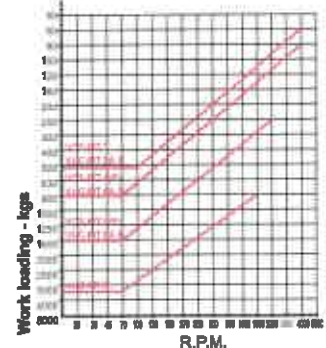
## THE CHART FOR LOADING WEIGHT WITH R.P.M.



FOR VLC-TYPE



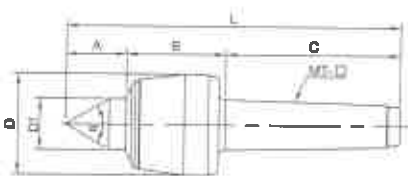
FOR VCF/VCP-TYPE



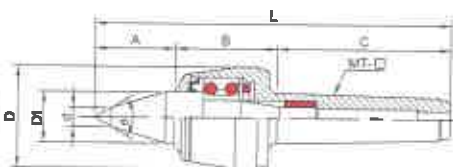
FOR VCS-TYPE



A TYPE



B TYPE



### WATER-PROOF TYPE

- Center shaft is made of SUJ2 material under vacuum heat treatment to provide higher rigidity (HRC60°±2°) and satisfied wear-resistance.
  - Center is constituted by dual ball bearing. Thrust bearing & needle roller bearing assembly.
  - Applicable to high-speed lathe & NC lathe with heavy load
  - water-proof.
- ※ B Type is applicable in the metal workings on small diameter workpieces.

※Suggested tallstock pressure under 6 kg/cm<sup>2</sup>

Unit:mm

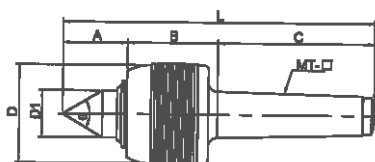
ORDER NO.	TYPE	A	B	C	D	D1	d	L	Accuracy	Speed Max R.P.M.	θ	G.W. weight kgs	PACKING LxWxH	CODE NO.
VLC-MT3A	MT3A	39	51	86	53	30	-	176	0.005	4000	60°	1.3	240 x 70 x 61	5001-020
VLC-MT4A	MT4A	42	62	108	63	32	-	212	0.005	3000	60°	2.2	253 x 92 x 80	5001-021
VLC-MT5A	MT5A	57	71	136	83	40	-	264	0.005	2500	60°	4.5	303 x 108 x 101	5001-022
VLC-MT6A	MT6A	80	111	189	128	70	-	380	0.008	1500	60°	15.6	410 x 177 x 168	5001-023
VLC-MT3B	MT3B	48	52	88	53	30	10	186	0.005	4000	60°	1.4	240 x 70 x 61	5001-024
VLC-MT4B	MT4B	52	62	108	63	32	12	218	0.005	3000	60°	2.2	253 x 92 x 80	5001-025
VLC-MT5B	MT5B	67	71	136	83	40	14	274	0.005	2500	60°	4.5	303 x 108 x 101	5001-026

LIVE CENTER

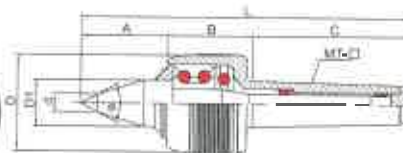
# High-Load NC Live Center



A TYPE



B TYPE



- Shaft uses material SUJ2: through vacuum heat treatment, it is even more durable, hardness is as high as (HRC60°±2°) and satisfied wear-resistance.
  - Front end is constituted by angular contact ball bearing & thrust ball bearing. middle & rear ends are comprised of needle roller bearing assembly.
  - These centers are suitable for NC lathe at high-speed & heavy-load operation, water-proof.
- ※ B Type is applicable in the metal workings on small workpieces.

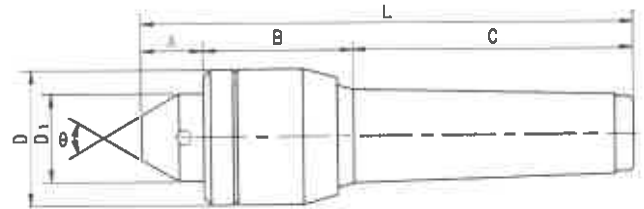
※Suggested tallstock pressure under 6 kg/cm<sup>2</sup>

Unit:mm

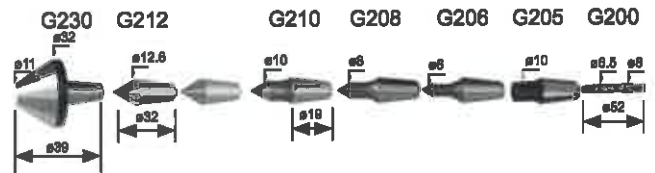
ORDER NO.	A	B	C	D	D1	d	L	Accuracy	Speed Max R.P.M.	θ	G.W. weight kgs	PACKING LxWxH	CODE NO.
VCF-MT3A	38	50	86	53	30	-	174	0.003	5000	60°	1.3	240 x 70 x 61	5001-030
VCF-MT4A	45	60	108	68	32	-	213	0.003	4500	60°	2.4	253 x 92 x 80	5001-031
VCF-MT5A	52	70	136	87	40	-	258	0.003	3000	60°	5	303 x 108 x 101	5001-032
VCF-MT3B	52	50	86	53	25	10	188	0.003	5000	60°	1.3	240 x 70 x 61	5001-033
VCF-MT4B	55	60	108	68	32	12	223	0.003	4500	60°	2.4	253 x 92 x 80	5001-034
VCF-MT5B	67	70	136	87	40	14	273	0.003	3000	60°	5	303 x 108 x 101	5001-035



# Inter-changeable Points Live Center



- Complete set with 7 Interchangeable Points for various processing.
- Packed in case.
- High accuracy and durability as well as complete rust-proof performance
- Center made of SCM420 special tool steel hardened and ground can be used for heavy duty work.



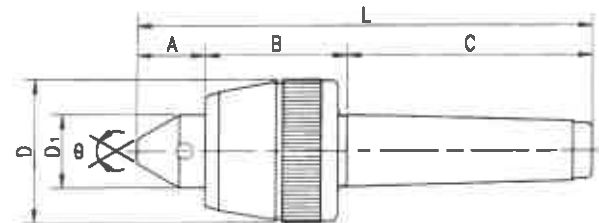
※Suggested tailstock pressure under 6 kg/cm<sup>2</sup>

Unit:mm

ORDER NO.	TYPE	A	B	C	D	D1	L	Accuracy	Speed Max. R.P.M.	θ	G.W. weight kgs	PACKING LxWxH	CODE NO.
VLC-312	MT2	22	36	69	32	25	127	0.008	4000	60°	0.9	166 x 105 x 63	5001-040
VLC-313	MT3	23	44	86	41	30	153	0.008	3000	60°	1.4	255 x 138 x 100	5001-041
VLC-314	MT4	23	51	108	47	32	182	0.008	2500	60°	2	255 x 138 x 100	5001-042

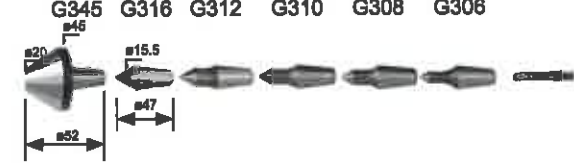


# High Speed NC Interchangeable Points Live Center



VCS-MT3, MT4

VCS-MT4P, MT5P

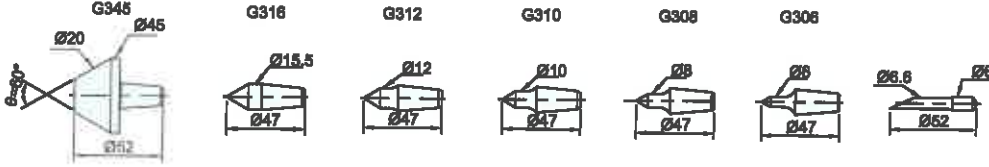
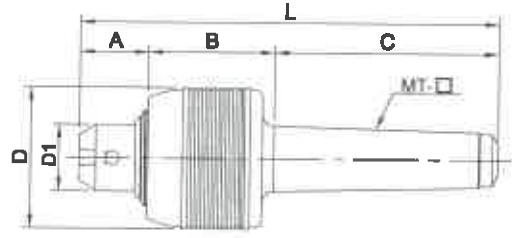


- Center shaft is made of SUJ2 material under vacuum heat treatment to provide higher rigidity (HRC60°±2°) and satisfied wear-resistance.
- Center is constituted by dual ball bearing. Thrust bearing & needle roller bearing assembly.
- Suit for to high-speed lathe & NC lathe with heavy load, water-proof.

※Suggested tailstock pressure under 6 kg/cm<sup>2</sup>

Unit:mm

ORDER NO.	A	B	C	D	D1	L	Accuracy	Speed Max. R.P.M.	θ	G.W. weight kgs	PACKING LxWxH	CODE NO.
VCS-MT3	28	51	86	53	30	165	0.008	4000	60°	1.8	255 x 138 x 100	5001-050
VCS-MT4	30	62	108	63	32	196	0.008	3500	60°	2.5	255 x 138 x 100	5001-051
VCS-MT4P	30	62	108	63	32	196	0.008	3500	60°	2.7	235 x 130 x 80	5001-052
VCS-MT5P	34	71	136	83	40	237	0.008	2500	60°	5.1	275 x 147 x 97	5001-053



- Shaft uses material SUJ2:through vacuum heat treatment, it is even more durable, hardness is as high as (HRC60°±2°) and satisfied wear-resistance.
- Front end is constituted by SKF angular contact ball bearing & thrust ball bearing. middle & rear ends are comprised of needle roller bearing assembly.
- These centers are suitable for NC lathe at high-speed & heavy-load operation, water-proof.

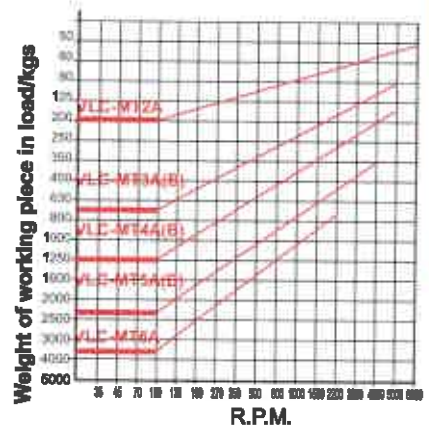
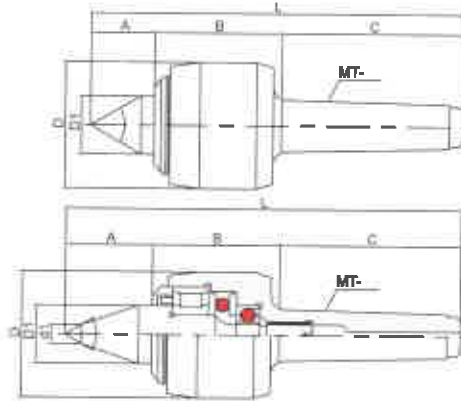
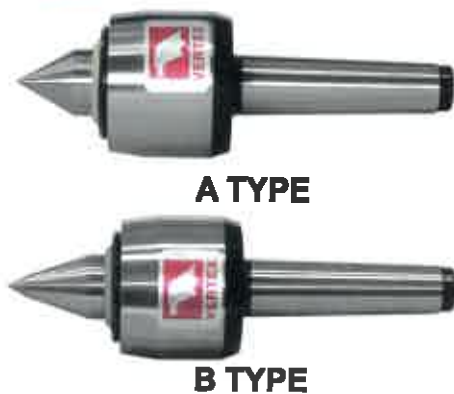
※Suggested tailstock pressure under 6 kg/cm<sup>2</sup>

ORDER NO.	A	B	C	D	D1	L	Accuracy	Speed Max. R.P.M.	θ	G.W. weight kgs	PACKING LxWxH	CODE NO.
VCP-MT4	30	64	108	68	32	202	0.005	4500	60°	3	253 x 130 x 80	5001-060
VCP-MT5	37	70	136	87	40	243	0.005	3000	60°	5.5	275 x 147 x 97	5001-061

Unit:mm

## High Speed Live Center

**NEW EURO STYLE**



- Suit for to CNC lathes, can be used at high speed turning and with waterproof design.
- The shaft is made of alloy steel and through vacuum heat treatment HRC 60°±2°. It has high rigidity and high durability.
- The center uses the combination of roller bearing, thrust ball bearing and ball bearing.
- ※B Type is applicable in the metal workings on small workpieces.

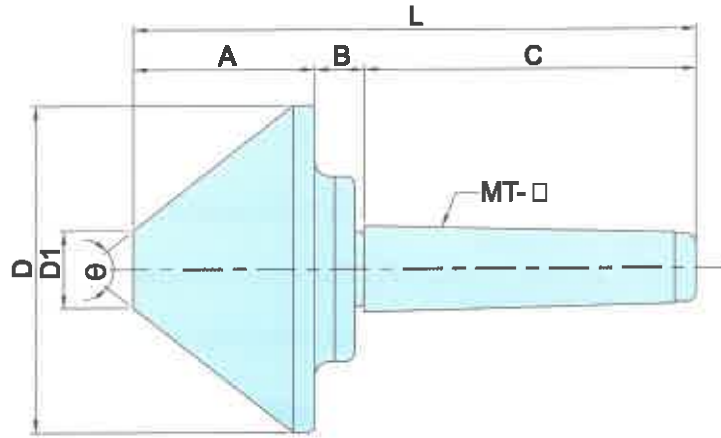
※Suggested tailstock pressure under 6 kg/cm<sup>2</sup>

ORDER NO.	TYPE	A	B	C	D	D1	L	d1	Accuracy	Speed Max. R.P.M	θ	G.W. weight	PACKING L x W x H	CODE NO.
VLC-512	MT2A	20	46	69	32	13	135	-	0.003	6000	60°	0.8	240x70x61	5001-062
VLC-513	MT3A	34	61	86	58	25	181	-	0.003	5200	60°	1.8	253x92x80	5001-063
VLC-514	MT4A	44	67	114	76	35	225	-	0.003	5000	60°	3.2	290x92x80	5001-064
VLC-515	MT5A	55	88	142	95	45	285	-	0.003	3500	60°	5.6	303x108x101	5001-065
VLC-513B	MT3B	45	61	86	58	25	192	10	0.003	5200	60°	1.8	290x92x80	5001-067
VLC-514B	MT4B	55	67	114	76	35	236	12	0.003	5000	60°	3.2	253x92x80	5001-068
VLC-515B	MT5B	67	88	142	95	45	297	14	0.003	3500	60°	6.0	303x108x101	5001-069

Unit:mm



HARDEN PROCESS : HRC50°  
 CONCENTRICITY : 0.005mm  
 ROUNDNESS : 0.005mm  
 MATERIAL : STEEL



※Suggested tailstock pressure under 6 kg/cm<sup>2</sup>

Unit:mm

ORDER NO.	SIZE MTxD	A	B	C	D	D1	L	Speed Max. R.P.M.	θ	R.P.M.100 LOAD WEIGHT (KGS)	G.W. weight (KGS)	CODE NO.
VLC-422	MT2×2 1/2"	48	12	69	63.5	12	128	3000	60°	200	0.9	5001-070A
VLC-423	MT2×3"	56	12	69	78	19	138	2500	60°	400	1.3	5001-070B
VLC-424	MT2×4"	58	12	69	106	32	141	2000	70°	640	2.3	5001-070C
VLC-433	MT3×3"	52	18	86	78	15	156	3300	60°	400	1.6	5001-070
VLC-434	MT3×4"	59	16	86	106	25	161	3000	70°	500	2.8	5001-071
VLC-435	MT3×5"	71	12	89	128	35	173	1900	70°	960	4.2	5001-071A
VLC-436	MT3×6"	81	12	89	156	50	183	1900	70°	1200	7.3	5001-071B
VLC-443	MT4×3"	52	18	108	78	15	178	3300	60°	400	1.8	5001-072
VLC-444	MT4×4"	59	16	108	106	25	183	3000	70°	500	3.1	5001-073
VLC-445	MT4×5"	73	12	108	128	40	193	2000	70°	650	4.9	5001-074
VLC-446	MT4×6"	88	12	108	156	45	208	1900	70°	800	7.7	5001-075
VLC-448	MT4×8"	98	12	108	206	54	218	1500	75°	1300	15.4	5001-076
VLC-4410	MT4×10"	107	13	110	258	92	236	1000	80°	2000	24	5001-076A
VLC-454	MT5×4"	58	12	143	106	32	214	2000	70°	640	4	5001-077A
VLC-455	MT5×5"	73	12	136	128	40	221	2000	70°	650	5.8	5001-077
VLC-456	MT5×6"	88	12	136	156	45	236	1900	70°	800	8.6	5001-078
VLC-458	MT5×8"	98	12	136	206	81	246	1500	75°	1600	15.7	5001-079
VLC-4510	MT5×10"	107	13	143	258	92	284	1000	80°	2200	25.5	5001-079A
VLC-4512	MT5×12"	110	25	143	306	120	281	1000	90°	3000	37.5	5001-079B
VLC-466	MT6×6"	81	12	185	156	50	281	1900	70°	1200	17	5001-080A
VLC-468	MT6×8"	103	13	185	206	54	298	1500	75°	2000	15.8	5001-080
VLC-4610	MT6×10"	107	13	185	258	92	306	1000	80°	2500	28	5001-081
VLC-4612	MT6×12"	110	25	185	306	120	323	1000	90°	3000	40	5001-082

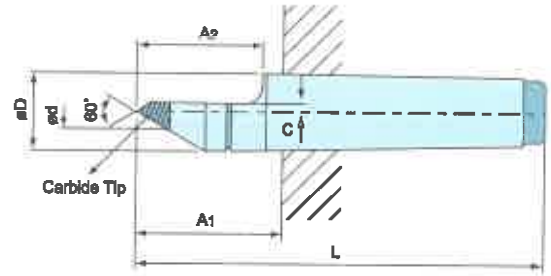


# Lathe Centers



- Half Diameter
- High precision
- Carbide tip
- DIN 806

**NEW**

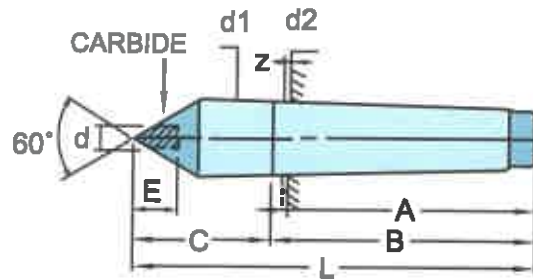


※Suggested tailstock pressure under 6 kg/cm<sup>2</sup>

ORDER NO.	SIZE	A1	A2	C	ØD	Ød	L	Weight (kgs)	CODE NO
VLC-120	MT3	69	63	4.0	24.1	11	150	0.41	5001-097
VLC-121	MT4	78	70	1.5	31.6	14	180	0.78	5001-098
VLC-122	MT4	78	70	4.0	31.6	14	180	0.81	5001-099

# Lathe Centers

- K20 Carbide tipped-HRC 70°
- Hardened & precision ground.
- Concentricity within .0002" (0.005mm)
- DIN806



※Suggested tailstock pressure under 6 kg/cm<sup>2</sup>

ORDER NO.	SIZE	A	B	C	E	L	d2	d1	d	WEIGHT (KGS)	CODE NO.
VLC-112	MT-2	69	67	31	8	100	17.780	18.0	6	0.2	5001-090
VLC-113	MT-3	89	81	39	10	125	23.825	24.1	8	0.4	5001-091
VLC-114	MT-4	109	102.5	46	14	155	31.267	31.6	10	0.8	5001-092
VLC-115	MT-5	136	129.5	64	18	200	44.399	44.7	14	2.1	5001-093
VLC-116	MT-6	190	182	80	30	270	63.648	63.8	18	5.7	5001-094

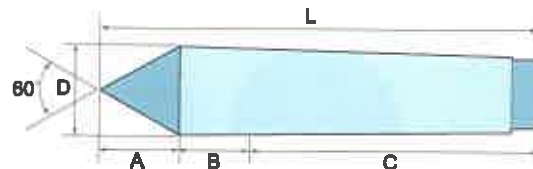
Unit:mm

LATHE CENTER

# Dead Center

**NEW**

- Suit for lathe & grinding machine
- Hardened & precision ground
- DIN806



※Suggested tailstock pressure under 6 kg/cm<sup>2</sup>

ORDER NO.	SIZE	A	B	C	D	L	Weight (kgs)	CODE NO
VLC-126	MT2	18	7	75	19	100	0.16	5001-111
VLC-127	MT3	24	10	91	25	125	0.34	5001-112
VLC-128	MT4	30	11	114	32	155	0.73	5001-113
VLC-129	MT5	39	16	145	46	200	1.9	5001-114
VLC-130	MT6	54	29	187	64	270	5.12	5001-115



VDK-15



VDK-23



VDK-32

- This Clamp-free center is comprised of excellent mechanical structure, nearly free of breakdown. main body & center shaft are made of SLD material by heat treatment(HRC62°). Driving is required for traditional lathe machining to prevent workpiece from stop.
- This clamp-free center with 6 T & 8T design on end surface is able to securely support workpiece surface to fulfill easy and rapid machining.

※Suggested tailstock pressure under 6 kg/cm<sup>2</sup>

Unit:mm

ORDER NO.	Center Shaft Size	Outer Dia	Working Range	Weight (KGS)	CODE NO.
VDK-15-MT4	6ø	16ø	16ø-25ø	0.6	5001-100
VDK-23-MT4	8ø	23ø	23ø-32ø	0.7	5001-101
VDK-32-MT4	8ø	32ø	32ø-45ø	0.7	5001-102

## Work-Driving Center-Changable Tips



SET STYLE



TAPER SLEEVE



STOPPER



CENTER



※Suggested tailstock pressure under 6 kg/cm<sup>2</sup>

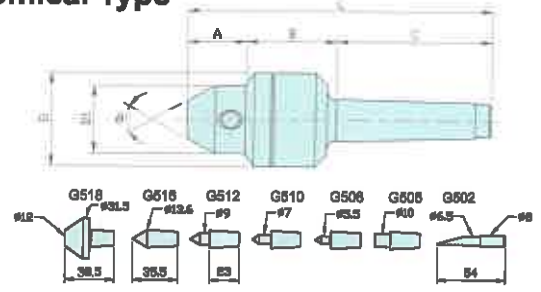
Unit:mm

ORDER NO.	Center Shaft Size	Stopper Outer Dia	Working Range	Weight (KGS)	CODE NO.
VDC-30-MT4	6ø, 8ø, 10ø	16ø, 23ø, 30ø	15ø-45ø	2.63	5001-106

# Inter-Changeable Point Rolling Center **VERTEX**

Economical Type

**NEW**



- 7 points / set
- Concentricity :  $\pm 0.008\text{mm}$
- With high grade bearing

※Suggested tailstock pressure under 6 kg/cm<sup>2</sup>

ORDER NO.	TYPE	A	B	C	D	D1	L	Accuracy	Speed Max R.P.M.	$\theta$	G.W. Weight Kgs	CODE NO.
VLC-612	MT2	24	39	69	40	29	132	0.005	1800	60°	0.85	5001-121
VLC-613	MT3	24	43	91	46	30	158	0.005	1600	60°	1.1	5001-122
VLC-614	MT4	24	44	107	48	32	175	0.005	1600	60°	1.4	5001-123
VLC-615	MT5	25	64	138	63.5	35	227	0.005	1000	60°	3.8	5001-124

Unit:mm

## Live Lathe Center

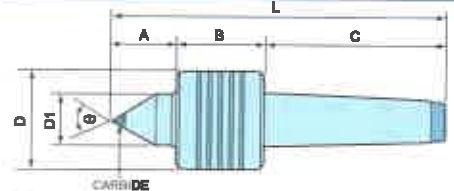
**NEW**

LIGHT DUTY



CARBIDE

※Suggested tailstock pressure under 6 kg/cm<sup>2</sup>



- K20 carbide tipped, HRC 70°
- Hardened & precision ground
- Concentricity : 0.0002" ( $\pm 0.005\text{mm}$ )

ORDER NO.	TYPE	A	B	C	D	D1	L	SPEED MAX. R.P.M.	$\theta$	WORK LOADING-KGS	G.W. weight kgs	CODE NO
VLC-172	MT2	32	40	72	41	25	144	2300	60°	60	0.55	5001-131
VLC-173	MT3	34	45	88	45	30	167	2000	60°	160	0.84	5001-132
VLC-174	MT4	34	45	109	45	30	188	1800	60°	300	1.15	5001-133
VLC-175	MT5	50	61	134	68	45	245	1500	60°	800	3.3	5001-134

## Drill Chucks Arbor



SLEEVE

MT3.4.5 -JT-

ARBOR

SLEEVE Please see page C43 C44 C56 C57

ORDER NO.	I.D.xO.D.	D	d	L	l1	l2	kg	CODE NO.
VQ-101	MT2xMT3	23.825	17.780	112	18	67	0.2	3210-001
VQ-102	MT2xMT4	31.267	17.780	124	6.5	67	0.5	3210-002
VQ-103	MT2xMT5	44.399	17.780	156	6.5	67	1.4	3210-003
VQ-104	MT2xMT6							3210-004
VQ-105	MT3xMT4	31.267	23.825	140	22.5	84	0.4	3210-005
VQ-106	MT3xMT5	44.399	23.825	156	6.5	84	1.3	3210-006
VQ-107	MT3xMT6	63.348	23.825	218	8	84	4	3210-007
VQ-108	MT4xMT5	44.399	31.267	171	21.5	107	1	3210-008
VQ-109	MT4xMT6	63.348	31.267	218	8	107	3.7	3210-009
VQ-110	MT5xMT6	63.348	44.399	218	8	133	2.9	3210-010
VQ-100	MT1xMT3	23.825	12.065	100	6	55	0.2	3210-011
VQ-100-1	MT1xMT2	17.780	12.065	89	14	55	0.22	3210-012
VQ-100-2	MT1xMT4	31.267	12.065	124	6.5	55	0.89	3210-013
VQ-100-3	MT1xMT5	44.399	12.065	156	7	55	1.33	3210-014

ORDER NO.	TAPER	JT NO.	C	H	kg	CODE NO.
VJ-126	MT2	JT3	20.6	34	0.24	3209-006
VJ-126-1	MT2	B16	15.733	29	0.2	3209-006A
VJ-126-3	MT2	B18	17.78	37	0.21	3209-006B
VJ-130	MT2	JT6	17.17	28	0.22	3209-029
VJ-130-2	MT2	JT5	35.89	50	0.5	3209-029A
VJ-130-4	MT2	JT4	28.55	45	0.4	3209-029B
VJ-137	MT2	JT2	14.2	25	0.2	3209-056
VJ-131	MT3	JT6	17.17	26	0.4	3209-030
VJ-131-2	MT3	JT5	35.89	50	0.7	3209-030A
VJ-131-4	MT3	JT33	15.85	28	0.3	3209-030B
VJ-134	MT3	B16	15.733	24	0.3	3209-033
VJ-134-2	MT3	B18	17.78	37	0.4	3209-033A
VJ-136-1	MT3	JT3	20.60	34	0.35	3209-034
VJ-131-2	MT3	JT5	35.89	50	0.7	3209-030A
VJ-138-2	MT3	JT4	28.55	45	0.5	3209-035
VJ-132	MT4	JT6	17.17	26	0.7	3209-031
VJ-132-1	MT4	JT3	20.60	34	0.7	3209-031A
VJ-132-7	MT4	JT4	28.55	45	0.85	3209-031B
VJ-132-4	MT4	JT5	35.89	50	1	3209-031C
VJ-132-5	MT4	JT2	14.2	25		3209-031D
VJ-132-6	MT4	JT33	15.85	28	0.65	3209-031E
VJ-132-8	MT4	B18	17.78	37	0.7	3209-031F
VJ-135	MT4	B16	15.733	29	0.7	3209-036
VJ-133	MT5	JT6	17.17	26	1.6	3209-032
VJ-133-1	MT5	JT3	20.60	35	1.6	3209-032A
VJ-133-2	MT5	JT4	28.55	46	1.8	3209-032B
VJ-133-3	MT5	JT5	35.89	51	2	3209-032C
VJ-133-4	MT5	JT2	14.2	28	1.6	3209-032D
VJ-133-5	MT5	JT33	15.85	29	1.5	3209-032E

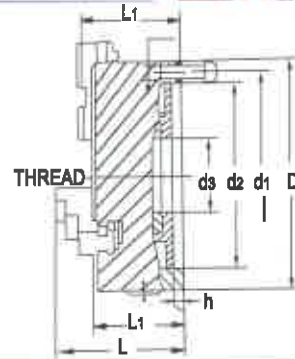
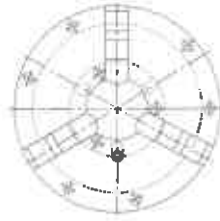
LATHE CENTER



# 3 Jaw Self Centering Chuck



2 Set of Solid Jaw. Plain Back



## SPECIFICATIONS

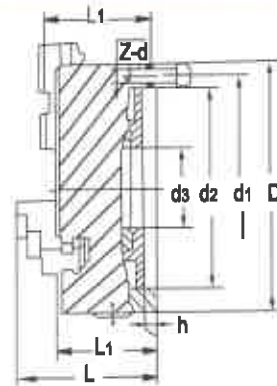
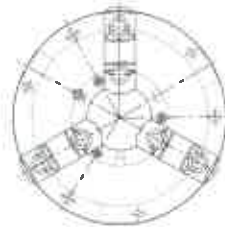
Unit:mm

ORDER NO.	D-Size	d1	d2	d3	L	L1	h	THREAD	GRIPPING RANGE		WEIGHT (kgs)	CODE NO.
									O.D. RANGE	I.D. RANGE		
VSC-3A	80mm (3")	66	55	16	66	50	3.5	3-M6	Ø2-Ø70	Ø24-Ø64	2	5002-020A
VSC-4A	100mm (4")	84	72	22	74.5	55	3.5	3-M8	Ø3-Ø90	Ø32-Ø84	3.3	5002-021A
VSC-5A	130mm (5")	115	100	30	78	55	3.5	3-M8	Ø3-Ø110	Ø35-Ø100	5.8	5002-022A
VSC-6A	160mm (6")	142	130	45	95	65	5	3-M8	Ø3-Ø160	Ø48-Ø150	9	5002-023A
VSC-7A	190mm (7 1/2")	172	155	55	105	75	5	3-M10	Ø4-Ø180	Ø56-Ø170	15.1	5002-024A
VSC-8A	200mm (8")	180	165	70	109	75	5	3-M10	Ø4-Ø180	Ø56-Ø170	15.6	5002-025A
VSC-9A	240mm (9 1/2")	215	195	70	122.5	80	5	3-M12	Ø5-Ø220	Ø62-Ø210	26	5002-026A
VSC-10A	250mm (10")	226	206	80	120	80	5	3-M12	Ø6-Ø220	Ø70-Ø250	26.5	5002-027A
VSC-12A	315mm (12")	285	260	100	147.5	90	6	3-M16	Ø10-Ø300	Ø86-Ø290	47	5002-028A
VSC-16A	400mm (16")	368	340	130	173.5	100	6	3-M16	Ø14-Ø400	Ø100-Ø380	73	5002-029A
VSC-20A	500mm (20")	465	440	210	202	115	6	3-M16	Ø25-Ø500	Ø150-Ø500	131	5002-030A
VSC-25A	630mm (25")	595	560	260	194	130	6	3-M16	Ø50-Ø630	Ø170-Ø630	200	5002-031A



# 3 Jaw Powerful Self Centering Chuck

Reversible Top Jaws. Plain Back



3 JAW SELF CENTERING CHUCK REVERSIBLE TOP JAWS. PLAIN BACK

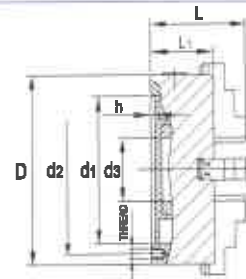
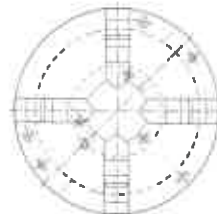
## SPECIFICATIONS

Unit:mm

ORDER NO.	D-Size	d1	d2	d3	L	L1	h	THREAD	GRIPPING RANGE		WEIGHT (kgs)	CODE NO.
									O.D. RANGE	I.D. RANGE		
VSK-6A	160mm (6")	142	130	45	95	71	5	3-M8	Ø8-Ø160	Ø55-Ø150	8.3	5002-040A
VSK-8A	200mm (8")	180	165	65	109	78	5	3-M12	Ø8-Ø180	Ø62-Ø170	16	5002-042A
VSK-10A	250mm (10")	226	206	80	120	84	5	3-M12	Ø12-Ø260	Ø80-Ø250	21.7	5002-043A
VSK-12A	315mm (12")	285	260	100	156.5	102.5	6	3-M16	Ø15-Ø300	Ø90-Ø290	41	5002-043B
VSK-13A	325mm (13")	296	272	100	154.5	102.5	6	3-M16	Ø11.5-Ø350	Ø110-Ø340	45.8	5002-044A
VSK-15A	380mm (15")	350	325	130	156.5	104.5	6	3-M16	Ø11.5-Ø400	Ø110-Ø400	64.7	5002-045A
VSK-16A	400mm (16")	368	340	130	181.5	129.5	6	3-M16	Ø30-Ø470	Ø110-Ø380	75.5	5002-046A



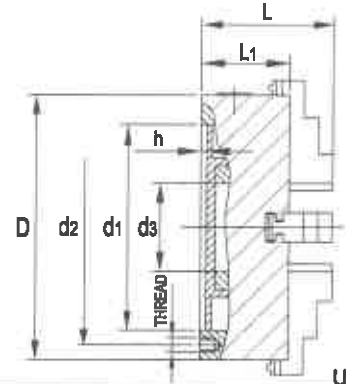
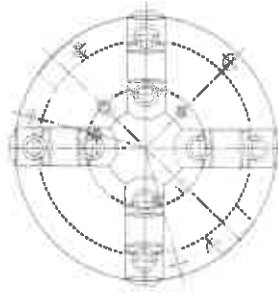
# 4 Jaw Self Centering Chucks



## SPECIFICATIONS

ORDER NO.	D	d1	d2	d3	L	L1	h	THREAD	GRIPPING RANGE		WEIGHT (kgs)	CODE NO.
									O.D. RANGE	I.D. RANGE		
VPS-6A	165	130	145	45	94	65	5	3-M8	Ø4-Ø165	Ø55-Ø150	9.3	5002-050
VPS-8A	200	165	180	65	109	75	5	3-M10	Ø4-Ø200	Ø65-Ø200	16.6	5002-052
VPS-10A	250	206	226	80	120	80	5	3-M12	Ø6-Ø250	Ø90-Ø250	28	5002-053
VPS-12A	315	260	285	100	147.5	90	6	3-M16	Ø10-Ø315	Ø100-Ø315	54	5002-054

# 4-Jaw Self Centering Chucks (2-Pieces Jaw) VERTEX®

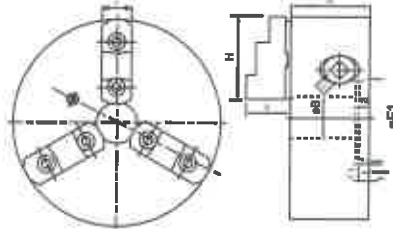


Unit:mm

## SPECIFICATIONS

ORDER NO.	D	d1	d2	d3	L	L1	h	THREAD	GRIPPING RANGE		WEIGHT (kgs)	CODE NO.
									O.D. RANGE	I.D. RANGE		
VPS-6AK	165	130	145	45	109	65	5	3-M8	Ø4-Ø165	Ø55-Ø150	9.5	5002-055
VPS-8AK	200	165	180	65	122	75	5	3-M10	Ø4-Ø200	Ø65-Ø200	14.8	5002-057
VPS-10AK	250	206	226	80	136	80	5	3-M12	Ø6-Ø250	Ø90-Ø250	24.7	5002-058
VPS-12AK	315	260	285	100	156.5	90	6	3-M16	Ø10-Ø315	Ø100-Ø315	45.7	5002-059

# 3-Jaw Strong Scroll Chucks D1 Camlock Direct Mounting



(ASA spindle nose D1-4, D1-5, D1-6, D1-8)

BACK SAMPLE

American standard camlock type with 2-piece reversible hard top jaws.

- Gripping accuracy of 0.03mm(0.002inch)T.I.R.
- Standard accessories A chuck wrench and hex. key One set of mounting bolts.(UNC-bolts)
- The body is made of MEEHANITE.

It is suitably used for high speed revolution and 3 times more durable than regular chucks.

## Specifications

ORDER NO.	Spindle Size	Chuck Size	A	B	C	H	J	K	Mounting Dimensions				Gripping Range		Weight (kg)	Allowable Handle Torque (kgf.m)	Gripping Force (kgf)	I (kgf.M <sup>2</sup> )	Max. Speed (r.p.m.)	CODE NO.
									F1	F2	F3	F4	O.D. Range	I.D. Range						
KD5-8"	D1-5	200	77	46	11	82	28	42	82.563	14.3	19	104.78	Ø8-Ø180	Ø62-Ø170	18	11.5	3600	0.07	3200	5002-061
KD6-8"	D1-6	200	77	58	11	82	28	42	106.375	16	22	133.35	Ø8-Ø180	Ø62-Ø170	17	17	3600	0.07	3200	5002-063

# 3-Jaw Powerful Camlock Type Self-Centering Chuck

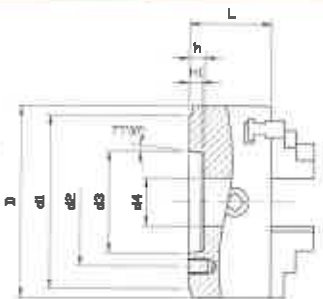
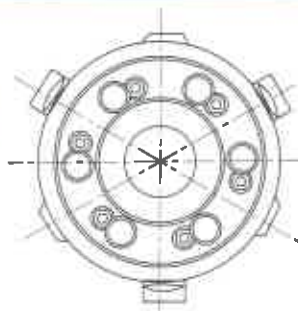
NEW



SAMPLE



Ød4	
D1-5	82.563
D1-6	106.375
D1-8	106.375
D1-11	106.357

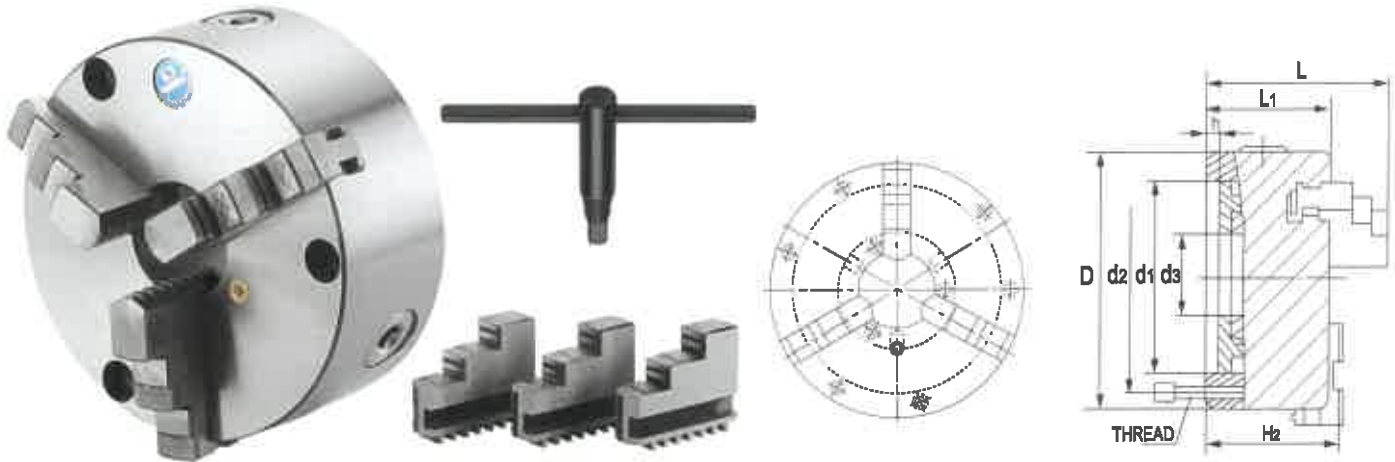


## Specifications

ORDER NO.	D	MOUNTING TYPE	d1	d2	d3	d4	L	H1	h	THREAD	WEIGHT (kgs)	CODE NO.
VSKC-6A	160	D5	40	104.8	146	82.563	12	73	15	6-M12x1.0P	10	5002-111
VSKC-8A	200	D6	50	133.4	181	106.375	13	86	16	6-M16x1.5P	17	5002-112
VSKC-10A	250	D6	70	133.4	181	106.375	13	98	16	6-M16x1.5P	32	5002-113
VSKC-12A	315	D6	100	133.4	181	106.375	13	103.5	16	6-M16x1.5P	49	5002-114



# DIN-Type 3-Jaw Self-Centering Chucks



It have front mounting type as well.

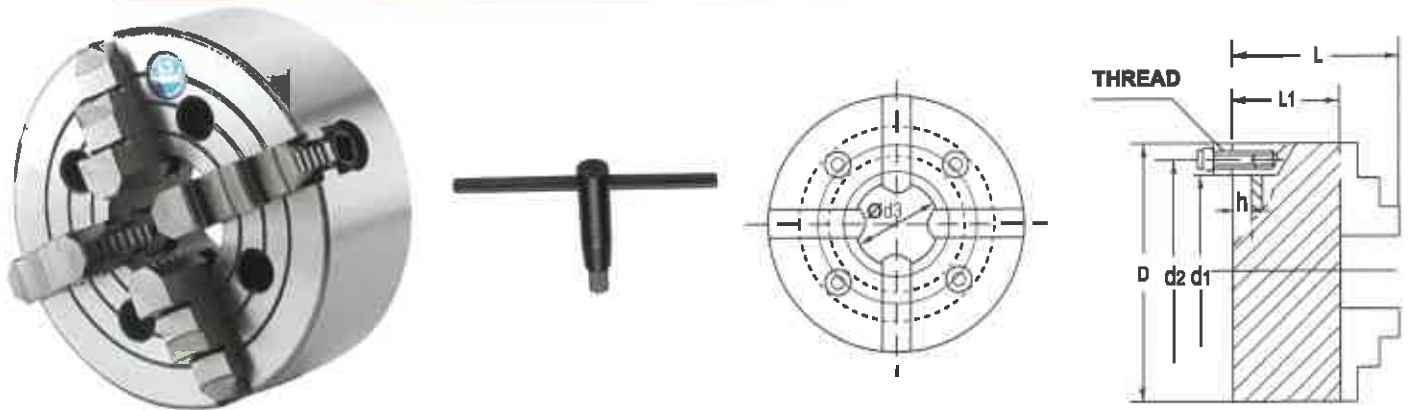
## SPECIFICATIONS

Unit:mm

ORDER NO.	D	d1	d2	d3	L	L1	h	THREAD	R.P.M. MAX SPEED	GRIPPING RANGE		WEIGHT (kgs)	CODE NO.
										O.D. RANGE	I.D. RANGE		
VSC-3D	80	56	67	16	66.5	50	4	3-M6	4000	Ø2-Ø70	Ø22-Ø63	1.9	5002-215
VSC-4D	100	70	83	22	74.5	55	3	3-M8	3500	Ø2-Ø90	Ø30-Ø80	3.3	5002-216
VSC-5D	125	95	108	30	84.5	58	4	3-M8	3000	Ø2.5-Ø125	Ø38-Ø110	5.2	5002-217
VSC-6D	160	125	140	45	94	65	5	6-M10	2500	Ø3-Ø160	Ø55-Ø145	9.1	5002-218
VSC-8D	200	160	176	65	109	75	5	6-M10	2500	Ø4-Ø200	Ø65-Ø200	16	5002-219
VSC-10D	250	200	224	80	120	80	5	6-M12	1600	Ø6-Ø250	Ø90-Ø250	27.5	5002-219A



# 4-Jaw Independent Chuck Plain Back



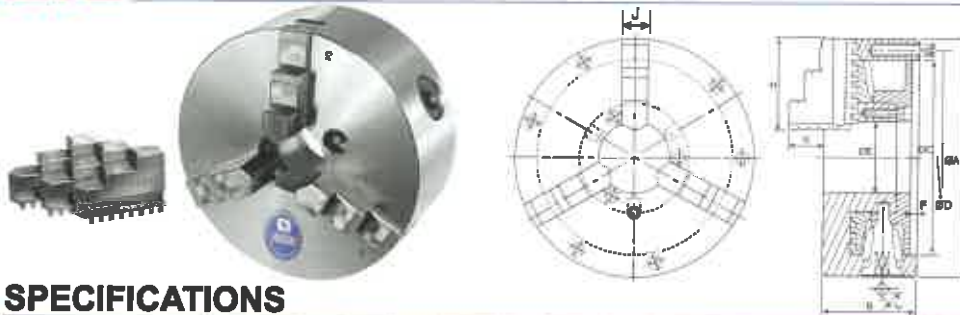
## SPECIFICATIONS

Unit:mm

ORDER NO.	D-size	d1	d2	d3	L	L1	h	THREAD	R.P.M. MAX SPEED	GRIPPING RANGE		WEIGHT (kgs)	CODE NO.
										O.D. RANGE	I.D. RANGE		
VKC-4	100mm(4")	72	84	25	74	54	3.5	4-M8	2300	Ø6-Ø45	Ø40-Ø100	3.5	5002-220
VKC-5	125mm(5")	95	108	30	78	56	4.5		1900	Ø7-Ø57	Ø48-Ø125	5.1	5002-221
VKC-6	160mm(6")	65	95	45	93	75	5	4-M10	1500	Ø8-Ø80	Ø50-Ø160	8.3	5002-222
VKC-8	200mm(8")	80	112	56	107	80	6		1350	Ø10-Ø100	Ø63-Ø200	15.9	5002-223
VKC-10	250mm(10")	110	130	75	120	90	6	4-M12	1100	Ø15-Ø130	Ø80-Ø250	21.8	5002-224
VKC-12B	320mm(12")	140	165	95	134	90	6	4-M16	850	Ø20-Ø176	Ø100-Ø315	41	5002-226
VKC-14	350mm(14")	130	168	110					550	Ø20-Ø206	Ø100-Ø350	53.6	5002-227
VKC-16	400mm(16")	160	185	125	143	95	8	4-M20	550	Ø25-Ø250	Ø118-Ø400	56	5002-228
VKC-20	500mm(21")	200	236	160	161	106	8		350	Ø35-Ø300	Ø125-Ø500	105	5002-229
VKC-25	630mm(25")	220	258	180	175	118	10	4-M20	280	Ø50-Ø400	Ø160-Ø630	162	5002-230
VKC-32	800mm(32")	250	300	210	202	132	12	8-M20	200	Ø70-Ø540	Ø200-Ø800	265	5002-231
VKC-40	1000mm(40")	320	370	260	241	150	15	8-M20	150	Ø100-680	Ø250-1000	536	5002-232
VKC-50	1250mm(50")	400	500	305	256	165	15	8-M20	150	Ø170-900	Ø250-1250	905	5002-233

# 3-Jaw Scroll Chuck

Accuracy Type 



- Interchangeable utilization of internal and external hard jaws.
- VSC types feature economical and durable, suitable for mass production.
- Gripping accuracy of 0.03mm (0.012inch) T.I.R..
- The body is made of MEEHANITE. It is suitably used for high speed revolution and 3 times more durable than regular chucks.

## SPECIFICATIONS

ORDER NO.	Dim	A	B	C	D	E	F	G	H	J	K	L	Allowable Handle Torque (kgf.m)	Gripping Force (kgf)	I (kgf.m)	Weight (kgs)	Max. Speed (r.p.m.)	Gripping Range		CODE NO.
																		O.D. Range	I.D. Range	
VSC-3		85	46	60	73	16	4	3-M6	36	11	15	7	3.0	900	-	1.9	2500	Ø2-Ø70	Ø24-Ø64	5002-001
VSC-4		112	59	80	95	24	4.5	3-M8	42	14	17	8	4.5	1200	-	3.9	2500	Ø3-Ø90	Ø32-Ø84	5002-002
VSC-5		132	60	100	115	32	4.5	3-M8	50	16	20	8	6.5	1500	0.01	3.9	2500	Ø3-Ø110	Ø35-Ø100	5002-003
VSC-6		165	67	130	147	45	5	3-M10	63	19	23	10	9.0	3300	0.03	9.6	2000	Ø3-Ø160	Ø48-Ø150	5002-004
VSC-7		192	76.5	155	172	58	5	3-M10	77	21.5	28	11	11.0	3600	0.06	14.2	2000	Ø4-Ø180	Ø56-Ø170	5002-005
VSC-8		200	76.5	160	176	58	5	3-M10	77	21.5	28	11	11.0	3600	0.07	15.2	2000	Ø4-Ø180	Ø56-Ø170	5002-006
VSC-9		232	84	190	210	70	6	3-M12	87	24	34.5	12	15.0	3900	0.15	22.8	2000	Ø5-Ø220	Ø62-Ø210	5002-007
VSC-10		273	87	230	250	87	8.5	3-M12	98	28	39	12	19.5	4800	0.25	30.8	1800	Ø6-Ø260	Ø70-Ø250	5002-008
VSC-12		310	96	260	285	105	7	3-M12	110	30	45	14	21.0	5700	0.58	44.6	1800	Ø10-Ø300	Ø86-Ø290	5002-009
VSC-14		355	112	300	328	127	7	6-M12	132	35	50	15	23.0	4500	-	71	1500	Ø12-Ø350	Ø96-Ø230	5002-009A
VSC-16		405	122	345	375	145	8.5	3-M14	146	42	56	15	23.0	4500	1.75	102	1500	Ø14-Ø400	Ø100-Ø380	5002-010

# 3-Jaw Powerful Scroll Chuck

Accuracy Type



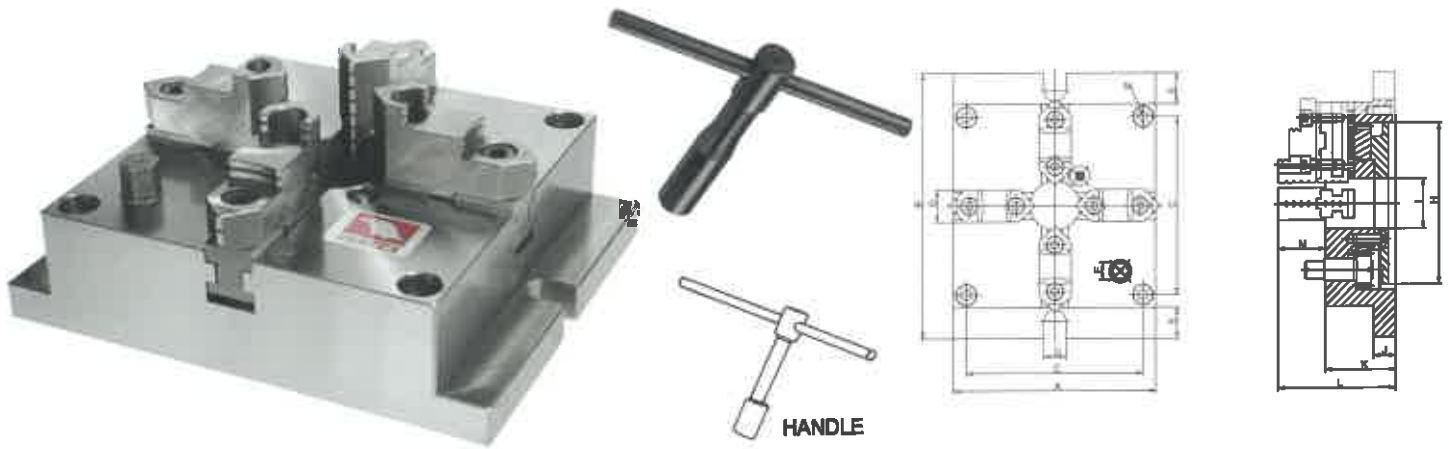
- VSK types chucks have wider utilization range; hard jaws suitable for heavy cutting; optional soft jaws suitable for light and precision cutting.
- Hard jaws could be used as internal jaws and external jaws.
- Gripping accuracy of 0.03mm(0.012inch) T.I.R.
- The body is made of MEEHANITE. It is suitably used for high speed revolution and 3 times more durable than regular chucks.

## SPECIFICATIONS

VSK reversible type

ORDER NO.	Dim	A	B	C	D	E	F	G	H	J	K	L	Allowable Handle Torque (kgf.m)	Gripping Force (kgf)	I (kgf.m)	Weight (kgs)	Max. Speed (r.p.m.)	Gripping Range		CODE NO.
																		O.D. Range	I.D. Range	
VSK-4		112	58	80	95	24	4.5	3-M8	47	19	31.5	8	4.5	1200	-	3.45	2500	Ø3-Ø100	Ø35-Ø93	5002-028
VSK-5		132	60	100	115	32	4.5	3-M8	57	24	36	8	6.5	1500	-	5	2500	Ø3-Ø123	Ø43-122	5002-029
VSK-6		165	67	130	147	45	5	3-M10	72	26	39	10	9.0	3300	0.03	9.5	2000	Ø8-Ø160	Ø55-Ø150	5002-030
VSK-7		192	76.5	155	172	58	5	3-M10	82	28	43	11	11.0	3600	0.06	13.8	2000	Ø8-Ø180	Ø62-Ø170	5002-031
VSK-8		200	76.5	160	176	58	5	3-M10	82	28	43	11	11.0	3600	0.07	14.7	2000	Ø8-Ø180	Ø62-Ø170	5002-032
VSK-9		232	84	190	210	70	6	3-M12	96	32	50	12	15.0	3900	0.16	22.1	2000	Ø11-Ø220	Ø70-Ø210	5002-033
VSK-10		273	87	230	250	87	8.5	3-M12	100	35	54.5	12	19.5	4800	0.26	29.5	1800	Ø12-Ø260	Ø80-Ø250	5002-034
VSK-12		310	96	260	285	105	7	3-M12	114	40	56	14	21.0	5700	0.58	41.8	1800	Ø15-Ø300	Ø90-Ø290	5002-035
VSK-14		355	112	300	328	127	7	6-M12	139	45	70.5	15	23.0	4500	-	68	1500	Ø25-Ø350	Ø110-Ø230	5002-035A
VSK-16		405	122	345	375	145	8.5	6-M14	150	50	75	15	23.0	4500	1.72	98	1500	Ø30-Ø470	Ø110-Ø380	5002-037

SCROLL CHUCK



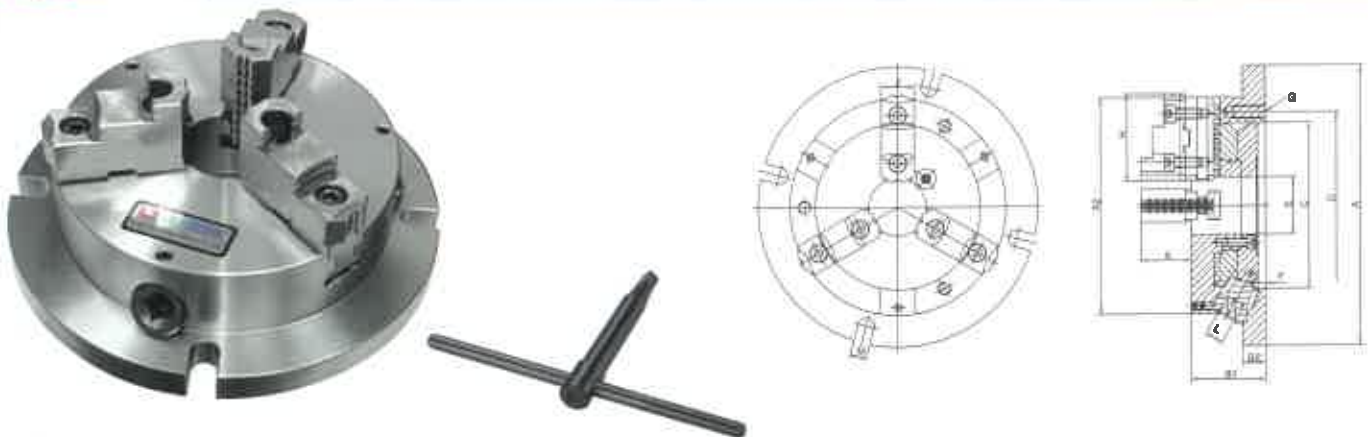
- Works are gripped firmly by the formed jaws, ensuring high precision. (Deviation: within 0.03mm)\* Use forming rings (jaw locks) to form the soft-jaws.
- Large workpieces can be held tight with the low profile vise body.
- Able to grip square works by using this chuck as a two-way jaw unit \* The fixed jaw(optional)is necessary. Longitudinal works can also be gripped by using the bore of this chuck.
- A dust cover is provided and this keeps the shavings from entering the machine.
- The handle is set on the face and does not interfere with the table. A number of chucks can be used together.

## SPECIFICATIONS

Unit:mm

ORDER NO.	A	B	C	D	E	G	H	I	J	K	L	M	N	MAX. GRIPPING DIAMETER		WEIGHT (kgs)	CODE NO.
														CLAMPING DIA	PROPING DIA		
VMJ-6	165	215	144	18	25	26	130	40	18	57	96	39	4-M10	Ø4-Ø128	Ø55-Ø128	13.5	5002-240
VMJ-8	200	250	174	18	25	28	160	55	20	65	108	43	4-M12	Ø5-Ø162	Ø62-Ø162	21.5	5002-241
VMJ-10	250	310	218	18	30	32	200	70	22	72	122	50	4-M14	Ø6-Ø200	Ø72-Ø200	36.1	5002-242
VMJ-12	310	380	274	22	35	40	260	100	25	85	141	56	4-M16	Ø10-Ø265	Ø90-Ø265	62.8	5002-243

# Super Thin Chucks



- The angle between "HANDLE" AND "BASE OF CHUCK" is 30° degree, There Fore, it is much more convenient for "HANDLE" rotation.
- This "POWER SUPER THIN" design of chuck may increase the "allowable length" of machining operation.
- The flanged type design make it easily for loading and unloading operation.
- "POWERFUL TYPE" design.

## SPECIFICATIONS

Unit:mm

ORDER NO.	DIm	A1	A2	B1	B2	C	D	E	F	G	H	J	K	L	M	Weight (kgs)	Gripping Range		CODE NO.
																	O.D. Range	I.D. Range	
VNBK-6	220	170	58	18	130	147	45	6	3-M10	68	26	40	10	13	12.4	Ø8-160	Ø48-150	5002-070	
VNBK-8	270	210	65	20	155	172	60	6	3-M10	82	28	43	11	13	20.2	Ø11-200	Ø62-190	5002-071	
VNBK-10	315	255	73	20	190	210	80	6	3-M12	93	32	52	12	16	30.5	Ø12-250	Ø72-240	5002-072	
VNBK-12	370	305	80	22	250	285	105	5	3-M12	118	40	59	14	18	46.8	Ø15-300	Ø86-290	5002-073	





**NEW**

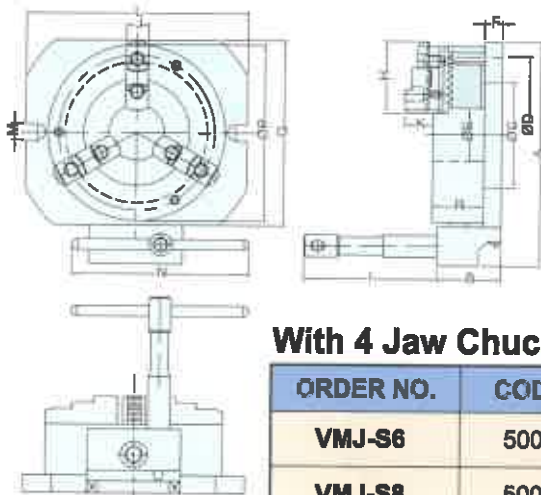


VMJ-150, 200, 250, 300



● VSK REVERSIBLE TYPE

NEW TYPE 3 JAW CHUCK CHANGEABLE



With 4 Jaw Chuck

ORDER NO.	CODE NO.
VMJ-S6	5002-264
VMJ-S8	5002-265
VMJ-S10	5002-266
VMJ-S12	5002-267

- Convert 3/4 Jaws chuck into clamping chuck.
- Vertical cutting / locking.
- Large workpieces can be held tight with the low profile vise body.
- ● 3 Jaws can for round workpiece.
- ■ 4 Jaws can for square workpiece & round workpiece.
- The handle is set on the face and does not interfere with the table. A number of chucks can be used together.
- Suit for MC center, Milling & Boring machine.
- Easy to exchange 3/4 Jaws chuck.

THIN CHUCK

## SPECIFICATIONS

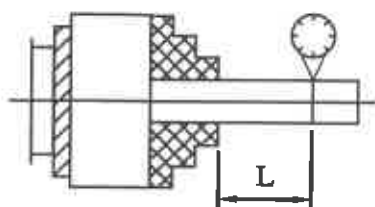
Unit:mm

ORDER NO.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	R	Gripping Range		Weight (kg±)	CODE NO.
																		O.D Range	I.D Range		
VMJ-150	219	83	90	147	45	20	3-M10	72	150	26	39	215	18	200	165	175	67	Ø8-Ø160	Ø55-Ø150	17.7	5002-260
VMJ-200	254	83	120	176	58	20	3-M10	82	150	28	43	250	18	200	200	200	76.5	Ø8-Ø180	Ø62-Ø170	24.4	5002-261
VMJ-250	327	83	190	250	87	24	3-M12	100	150	35	50	324	18	200	273	283	87	Ø12-Ø260	Ø80-Ø250	48.7	5002-262
VMJ-300	364	83	220	285	105	24	3-M12	114	150	40	56	360	18	200	310	320	96	Ø15-Ø300	Ø90-Ø290	63.7	5002-263



## Quality standard For Lathe Chuck

### Accuracy



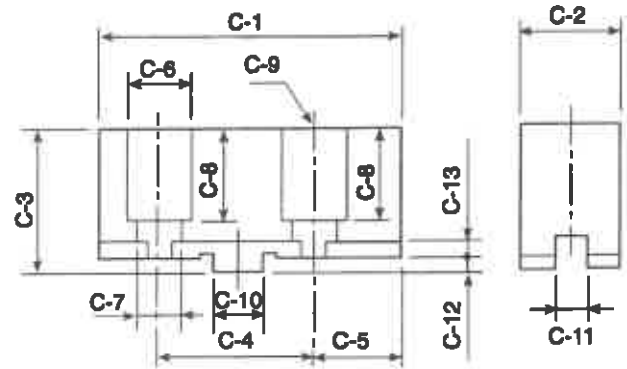
ORDER NO.	VSC-3,4,5,6,7,8,9,10,12,14,16 VSK-4,5,6,7,8,9,10,12,14,16 VMJ-6,8,10,12,150,200,250,300 VNBK-6,8,10,12	VSC-3A,4A,5A,6A,7A,8A,9A,10A VSC-12A,16A,20A,25A VSK-6A,8A,10A,12A,13A,16A VPS-6A,8A,10A,12A,6AK,8AK VPS-10AK,12AK VSKC-6A,8A,10A,12A VSC-3D,4D,5D,6D,8D,10D VKC-4,5,6,8,10,12B,14,16,20,25 VKC-32,40,50
TEST ITEM	L	L
RADIAL RUNOUT	0.05 / 50 mm	0.10 / 50 mm



# Soft Jaw For SK-Type Chuck



1. Soft jaw for SK-type chuck. 2. Manufactured in specification  
Can for Japanese brand 3 jaw chuck KITAGAWA, HOWA, VICTOR



Unit:mm

ORDER NO. / Dlm	C-1	C-2	C-3	C-4	C-5	C-6	C-7	C-8	C-9	C-10	C-11	C-12	C-13	Weight (kgs)	CODE NO.
VSJ-4	52	19	30	24	14	11	7	21	M6	9.53	7.94	2.5	3	0.45	5002-298
VSJ-5	62	24	35	32	15	14	9	24	M8	12.88	7.94	3	3.5	0.9	5002-299
VSJ-6	75	26	38	38.1	18	14	8.5	27	M8	12.88	7.94	3	3.5	1.3	5002-300
VSJ-7	95	31	48	44.45	25	17	11	35	M10	12.88	7.94	3	3.5	3.4	5002-301
VSJ-8	95	31	48	44.45	25	17	11	35	M10	12.88	7.94	3	3.5	2.7	5002-302
VSJ-9	110	37	48	53.98	28	19	13	36	M12	19.03	12.7	3	3.5	3.7	5002-303
VSJ-10	110	37	48	53.98	28	19	13	36	M12	19.03	12.7	3	3.5	3.7	5002-304
VSJ-12	125	40	54	63.5	32	19	13	40.5	M12	19.03	12.7	3	3.5	5.3	5002-305
VSJ-16	160	50	70	76.2	42	25	17	48	M16	19.03	12.7	6	5.5	10.6	5002-306

THE SPECIAL OF HEIGHT (C-3) FOR VSJ-TYPE IS AVAILABLE

ORDER NO.	MODEL	HEIGHT	CODE NO.
VSJ-6-5	VSJ-6	50H	5002-3005
VSJ-6-6	VSJ-6	60H	5002-3006
VSJ-6-7	VSJ-6	70H	5002-3007
VSJ-6-8	VSJ-6	80H	5002-3008
VSJ-6-9	VSJ-6	90H	5002-3009
VSJ-8-5	VSJ-7 VSJ-8	50H	5002-3025
VSJ-8-6	VSJ-7 VSJ-8	60H	5002-3026
VSJ-8-7	VSJ-7 VSJ-8	70H	5002-3027
VSJ-8-8	VSJ-7 VSJ-8	80H	5002-3028
VSJ-8-9	VSJ-7 VSJ-8	90H	5002-3029
VSJ-9-5	VSJ-9	50H	5002-3035
VSJ-9-6	VSJ-9	60H	5002-3036
VSJ-9-7	VSJ-9	70H	5002-3037
VSJ-9-8	VSJ-9	80H	5002-3038
VSJ-9-9	VSJ-9	90H	5002-3039
VSJ-9-10	VSJ-9	100H	5002-30310
VSJ-9-12	VSJ-9	120H	5002-30312

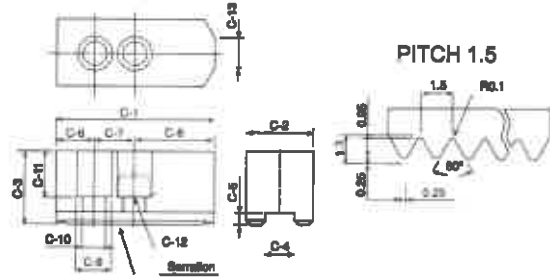
ORDER NO.	MODEL	HEIGHT	CODE NO.
VSJ-10-5	VSJ-10	50H	5002-3045
VSJ-10-6	VSJ-10	60H	5002-3046
VSJ-10-7	VSJ-10	70H	5002-3047
VSJ-10-8	VSJ-10	80H	5002-3048
VSJ-10-9	VSJ-10	90H	5002-3049
VSJ-10-10	VSJ-10	100H	5002-30410
VSJ-10-12	VSJ-10	120H	5002-30412
VSJ-10-13	VSJ-10	130H	5002-30413
VSJ-12-6	VSJ-12	60H	5002-3056
VSJ-12-7	VSJ-12	70H	5002-3057
VSJ-12-8	VSJ-12	80H	5002-3058
VSJ-12-9	VSJ-12	90H	5002-3059
VSJ-12-10	VSJ-12	100H	5002-30510
VSJ-12-12	VSJ-12	120H	5002-30512
VSJ-12-13	VSJ-12	130H	5002-30513
VSJ-12-15	VSJ-12	150H	5002-30515
VSJ-16-10	VSJ-16	100H	5002-30610
VSJ-16-12	VSJ-16	120H	5002-30612

# Soft Jaw For Hydraulic Power Chucks

Can for Japanese brand 3 jaw chuck KITAGAWA, HOWA, VICTOR



STANDARD  
3 PCS/SET



ALUMINIUM

MATERIAL: ALUMINIUM

ORDER NO.	SIZE	CODE NO.
VHC-8A	SAME VHC-8	5002-250A
VHC-10A	SAME VHC-10	5002-251A

MATERIAL: STEEL

ORDER NO.	Dim	C-1	C-2	C-3	C-4	C-5	C-6	C-7	C-8	C-9	C-10	C-11	C-12	C-13	Weight (kgs)	CODE NO.
VHC-05		62	25	30	10	5	9	14	39	13.5	9	21	M8	5	0.9	5002-330
VHC-06		73	31	36	12	5	15	20	38	17	11	23	M10	14	1.6	5002-331
VHC-08		95	35	37	14	5	24	25	46	19	13	22	M12	16	2.4	5002-332
VHC-10		110	40	42	16	5	30	30	50	19	13	27	M12	18	3.7	5002-333
VHC-12		130	50	50	21	5	39	30	61	25	17	30	M16	23	6.4	5002-334
VHC-15		165	62	62	22	8	37	43	85	32	21	38	M20	-	12.7	5002-335
VHC-12-1		130	50	50	18	5	39	30	61	23	15	30	M14	23	6.25	5002-336
VHC-15-1		165	62	62	25.5	5	37	43	85	32	21	38	M20	-	13	5002-337
VHC-24		180	64	70	25	9	40	60	80	32	21	45	M20	-	17	5002-338

THE SPECIAL OF HEIGHT (C-3) FOR VHC-TYPE IS AVAILABLE

ORDER NO.	MODEL	HEIGHT	CODE NO.
VHC-05-5	VHC-05	50H	5002-3305
VHC-05-6	VHC-05	60H	5002-3306
VHC-05-7	VHC-05	70H	5002-3307
VHC-05-8	VHC-05	80H	5002-3308
VHC-06-5	VHC-06	50H	5002-3315
VHC-06-6	VHC-06	60H	5002-3316
VHC-06-7	VHC-06	70H	5002-3317
VHC-06-8	VHC-06	80H	5002-3318
VHC-06-9	VHC-06	90H	5002-3319
VHC-06-10	VHC-06	100H	5002-3320
VHC-08-5	VHC-08	50H	5002-3325
VHC-08-6	VHC-08	60H	5002-3326
VHC-08-7	VHC-08	70H	5002-3327
VHC-08-8	VHC-08	80H	5002-3328
VHC-08-9	VHC-08	90H	5002-3329
VHC-08-10	VHC-08	100H	5002-3330
VHC-08-11	VHC-08	110H	5002-3331
VHC-08-12	VHC-08	120H	5002-3332
VHC-10-5	VHC-10	50H	5002-3335
VHC-10-6	VHC-10	60H	5002-3336
VHC-10-7	VHC-10	70H	5002-3337
VHC-10-8	VHC-10	80H	5002-3338
VHC-10-9	VHC-10	90H	5002-3339
VHC-10-10	VHC-10	100H	5002-33310
VHC-10-12	VHC-10	120H	5002-33312

ORDER NO.	MODEL	HEIGHT	CODE NO.
VHC-12-6A	VHC-12 18SLOT	60H	5002-3366
VHC-12-7A	VHC-12 18SLOT	70H	5002-3367
VHC-12-8A	VHC-12 18SLOT	80H	5002-3368
VHC-12-9A	VHC-12 18SLOT	90H	5002-3369
VHC-12-10A	VHC-12 18SLOT	100H	5002-33610
VHC-12-6	VHC-12 21SLOT	60H	5002-3346
VHC-12-8	VHC-12 21SLOT	80H	5002-3348
VHC-12-10	VHC-12 21SLOT	100H	5002-33410
VHC-12-12	VHC-12 21SLOT	120H	5002-33412
VHC-12-14	VHC-12 21SLOT	140H	5002-33414
VHC-15-7	VHC-15	70H	5002-3357
VHC-15-8	VHC-15	80H	5002-3358
VHC-15-9	VHC-15	90H	5002-3359
VHC-15-10	VHC-15	100H	5002-33510
VHC-15-12	VHC-15	120H	5002-33512
VHC-15-15	VHC-15	150H	5002-33515

POWER CHUCK



# Low Profile Chuck



NEW



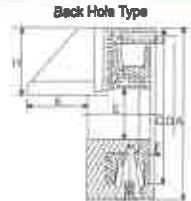
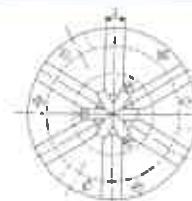
- Compact, Small And Light Weight
- No Wrench Required, Turn To Loose & Lock By Fixing Ring
- Steel Made Body
- Reversible Jaws
- VLBK-Series Is Latest Vertical Clamping Design For CNC, Milling Machine And Machining Center.

## DIMENSIONS

ORDER NO.	A	B	C	D	E	F	G	H	I	J	K	L	Gripping Range		Weight (kgs)	CODE NO.
													O.D. Range	I.D. Range		
VLBK-2	118	28	63	100	16	4	4-M5X0.8P	27	26	8	13	8	ø0.8~ø63	ø23~ø58	1.2	5002-130
VLBK-3	143	37	85	116	20	4	4-M6X1.0P	35	32	11	15	10.5	ø1~ø81	ø31~ø70	2.9	5002-131
VLBK-4	168	39	110	140	26	5	4-M6X1.0P	42	40	14	19	10	ø1~ø100	ø36~ø90	4.6	5002-132
VLBK-5	202	45	130	168	32	6	4-M8X1.25P	50	49	16	21	11.5	ø1.5~ø116	ø43~ø106	6.2	5002-133
VLBK-6	248	52	160	208	50	8	4-M10X1.5P	65	70	19	26	15	ø1.5~ø160	ø52~ø148	11	5002-134



# 6-Jaw Awl Type Chucks



## SPECIFICATIONS

ORDER NO.	A	B	C	D	E	F	G	H	J	K	L	Gross Weight (kgs)	Max. Speed (r.p.m.)	Max. Gripping Diameter	CODE NO.
														O.D. Clamping	
VAS-4	112	58	80	95	32	4.5	3-M8	45	14	46	8	4.2	1200	Ø2-32	5005-011
VAS-6	167	65	130	147	60	5	3-M10	66	19	43	10	9.2	1200	Ø3-60	5005-012

Unit:mm



# Soft Jaw Forming Ring



The size can be adjusted against the helical slot.

Bias pin can be rotated 180 degree for different size to extend a clamping range.

Don't need to drill new hole. The hole on the soft jaws can be used directly for bias pin.

The material, is hardened and ground, can last for a long time.

## CHUCK NOT INCLUDED

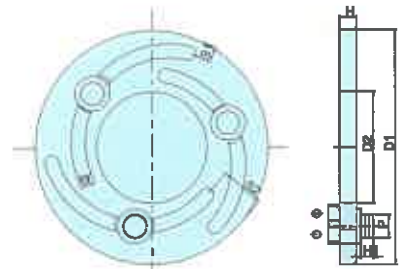
## FAETURES

- Forming ring is available for 5", 6", 8", 10" & 12" power chuck.
- The clamping force is increasing. the roundness and vibration caused by eccentricity can be improved. The cutting accuracy is much better because of no taper hole(as fig.3) and less vibration.
- Both Clamping(as fig.1) and extension (as fig. 2) are available. Meanwhile ,the size adjusting is at will, the operation is easy and durable.
- More improvement for used chuck to have better accuracy & strong clamping force .
- For CNC Lathe.

## INSTRUCTION

Because the forming ring is used for cutting soft jaws by clamping and with extending. through-hole could increase the accuracy of clamping work piece. (please refer to fig.1,2&3)

As fig.4 the soft jaw is created without forming ring. Cause bad accuracy. The clamping force is not stable & vibration will occur.



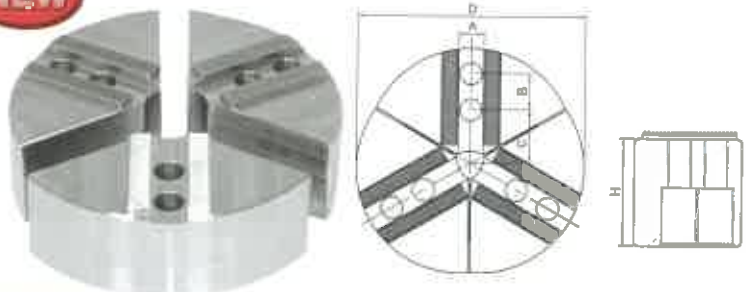
ORDER NO.	SUIT TO SK-CHUCK SIZE	H	D1	D2	S1	S2	G	H1	O	KGS	CODE NO.
VFR-05	5"	12	140	60	12	28	10	9	13.5	1	5002-360
VFR-06	6"	12	168	80	12	32	10	9	16.5	1.5	5002-361
VFR-08	8"	12	218	115	17	36	10	9	18.5	2.4	5002-362
VFR-10	10"	12	258	150	15	40	10	9	18.5	3	5002-363
VFR-12	12"	15	316	188	21	50	10	9	21.5	5	5002-364
VFR-15	15"	20	380	230	23	52	12	16	31	10.1	5002-365

# Round Disc Soft Jaw



MATERIAL : STEEL S45C

NEW



## FAETURES

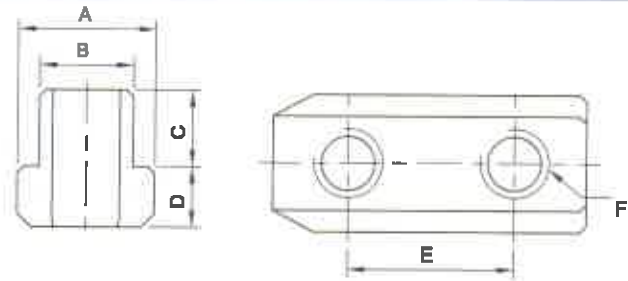
- This type of soft jaw can cover the outerdie of workpiece to decrease deformation and in crease the accuracy.
- For example : VFRD-8 can hold parts with outer dia. of 200 mm.
- Pie Jaw are suitable for extra bigger outer dia.(thin wall)
- To suit kitagawa and other famous chucks.
- Pie shspe soft jaw

Unit:mm

ORDER NO.	D	A	B	C	H	THREAD	THRU HOLE	SERRATION PITCH	WEIGHT (kg)	CODE NO.
VFRD-6	169	12	20	49.5	36	M10	25	1.5x60°	6.12	5002-381
VFRD-8	200	14	25	51	40	M12			9.64	5002-382
VFRD-9	200	14	25	51	50	M12			13.2	5002-383
VFRD-10	250	16	30	65	50	M12			18.1	5002-384
VFRD-12	300	21	30	81	50	M16			25.8	5002-385

# T Nut For Hydraulic Chuck

NEW



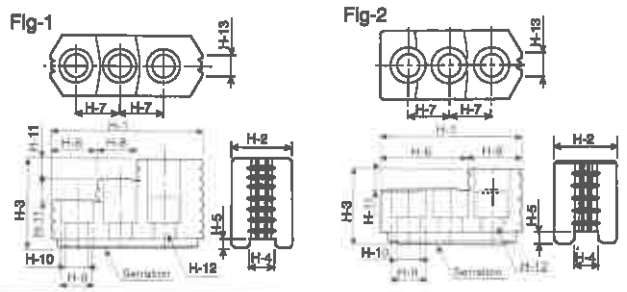
• For connect power chuck and soft jaws, suit for JAPANESE & TAIWANNES brands chuck.

## For Kitagawa B-200 Series & Taiwannes Power Chuck

ORDER NO.	CHUCK SIZE	A	B	C	D	E	F	WEIGHT (kg)	CODE NO.
B-205T	5"	14	10	9.5	5	14	M8	0.1	5002-390
B-206T	6"	17.5	12	11	7.5	20	M10	0.1	5002-391
B-208T	8"	20.5	14	12	8.5	25	M12	0.2	5002-392
B-210T	10"	22.5	16	13	8.5	30	M12	0.3	5002-393
B-212T	12"	28	21	16.5	11.5	30	M16	0.6	5002-394

FORMING DISC

# Hard Jaws For Hydraulic Power Chucks



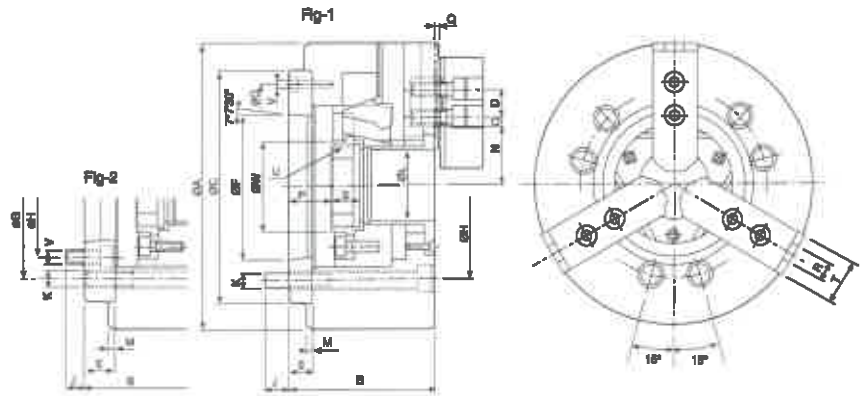
## DIMENSIONS

Unit:mm

ORDER NO.	Dlm	H-1	H-2	H-3	H-4	H-5	H-6	H-7	H-8	H-9	H-10	H-11	H-12	H-13	Serration Pitch	Matching Chuck	3-Jaw Weight (kgs)	CODE NO.
HJ05	53	23	27.5	10	4	30.5	14	22.5	13.5	8.5	10	M8	6	1.5x60°	Fig-2 N-205	0.4	5002-401	
HJ06	67.5	31	35	12	5	39.5	20	27.5	17	11	12	M10	16	1.5x60°	Fig-2 N-206.V-206	1.0	5002-402	
HJ08	86	35	51	14	5	31	25	18	19	13	12	M12	12	1.5x60°	Fig-1 N-208.V-208	1.9	5002-403	
HJ10	99.5	40	54	16	5	43	30	17	19	13	13	M12	15	1.5x60°	Fig-1 N-210.V-210	2.9	5002-404	
HJ12	103	50	52	21	4	62.5	30	40.5	25	17	17	M16	30	1.5x60°	Fig-2 N-212	2.65	5002-405	
HJ12-1	103	50	52	18	5	62.5	30	40.5	22	15	17	M14	30	1.5x60°	Fig-2 V-212	2.7	5002-406	
HJ15	149	62	86	22	8	63	43	34	32	21	20	M20	40	1.5x60°	Fig-1 N-215	9.6	5002-407	
HJ15-1	149	62	86	25.5	5	63	43	34	32	21	20	M20	40	1.5x60°	Fig-1 V-215	9.5	5002-408	



# 3-Jaw Wedge Type Through-hole Power Chuck (Without Adaptor)



- More large bore: Having the largest bore in wedge type power operated chucks.
- 20% large bore: Approximately 20% higher speed, higher gripping force and larger bore compared with usual chucks.
- Model N-200A chucks are assembled with adaptor for ASA B5.9 type A spindles.
- Model N-200A chucks are manufactured from high grade alloy steel, All sliding surfaces are hardened and ground for accurate actual running and long service repeatability.

## SPECIFICATIONS

Dim	ORDER NO.	N-205A4	N-206A5	N-208A5	N-208A6	N-210A6	N-210A8	N-212A8	N-215A8	N-215A11
Through-Hole (mm)		ø33	ø45	ø52	ø52	ø75	ø75	ø91	ø117.5	ø117.5
Plunger Stroke (mm)		10	12	16	16	19	19	23	23	23
Jaw Stroke (mm)		5.4	5.5	7.4	7.4	8.8	8.8	10.6	10.6	10.6
Max. Draw Bar Pull Force (kgf)		1700	2200	3400	3400	4300	4300	5500	7240	7240
Max. Gripping Force (kgf)		3600	5700	8800	8800	11000	11000	14300	18355	18355
Max. Operating Pressure (kgf/cm <sup>2</sup> )		29.6	28.5	26.5	26.5	27.5	27.5	27.5	23.5	23.5
Max. Speed (r.p.m.)		7000	6000	4900	4900	4200	4200	3300	2500	2500
Weight (kgs)		6.9	14.2	25.8	24.05	40.9	37.4	63.2	134	127
Matching Cylinder		M1036	M1246	M1552	M1552	M1875	M1875	M2091	M2511	M2511
Matching Soft Jaw		VHC05	VHC06	VHC08	VHC08	VHC10	VHC10	VHC12	VHC15	VHC15
Matching Hard Jaw		HJ05	HJ06	HJ08	HJ08	HJ10	HJ10	HJ12	HJ15	HJ15
CODE NO.		5002-080	5002-081	5002-082	5002-083	5002-084	5002-085	5002-086	5002-087	5002-088

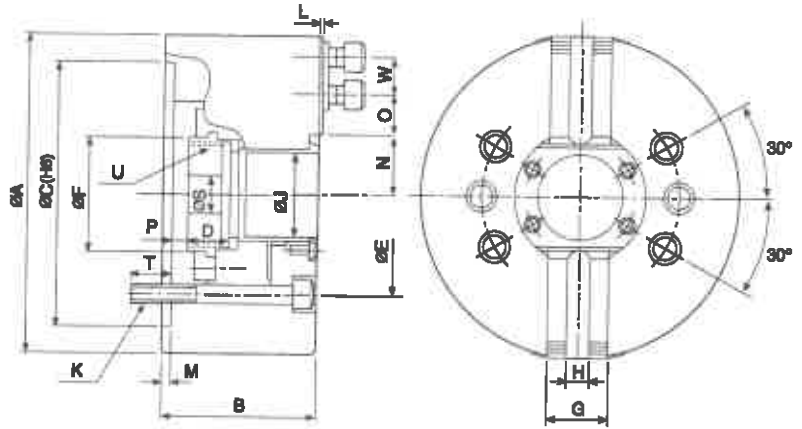
Unit:mm

## DIMENSIONS

Dim	ORDER NO.	N-205A4	N-206A5	N-208A5	N-208A6	N-210A6	N-210A8	N-212A8	N-215A8	N-215A11
A		135	169	210	210	254	254	304	381	381
B		71	91	109	103	120	113	122	160	149
G		96	116	133.35	150	171.45	190	190	235	260
D		14	20	25	25	30	30	30	43	43
E		15	15	23	17	25	18	18	33	22
F		65.513	82.563	82.563	106.375	106.375	139.719	139.719	139.719	196.869
C		110	140	170	170	220	220	220	300	300
H		82.55	104.78	104.78	133.35	133.35	171.45	171.45	171.45	235
J		15.5	16	13	18	18	24	25	24	28
K		3xM10	6xM10	6xM12	6xM12	6xM16	6xM16	6xM16	6xM20	6xM20
L		33	45	52	52	75	75	91	117.5	117.5
M		4	5	5	5	5	5	6	6	6
N max.		26.5	32	38.7	38.7	51	51	61.3	82	82
N min.		23.8	29.25	35	35	46.6	46.6	56	76.7	76.7
O max.		19.75	22.75	29.75	29.75	33.75	33.75	45.75	46.75	46.75
O min.		7.75	9.25	14.75	14.75	14.25	14.25	15.75	13.75	13.75
P max.		16	26	37.5	31.5	33.5	26.5	26	40	29
P min.		6	14	21.5	15.5	14.5	7.5	3	17	6
Q		2	2	2	2	2	2	2	5	5
R		10	12	14	14	16	16	21	24	24
S		20	19	20.5	20.5	25	25	28	43	43
T		23	32	37	37	42	42	52	62	62
U max.		M40x1.5	M55x2.0	M60x2.0	M60x2.0	M85x2.0	M85x2.0	M100x2.0	M130x2.0	M130x2.0
V		3xM6	3xM6	6xM10	3xM6	6xM12	6xM8	6xM8	6xM16	3xM10
W		45	60	66	66	94	94	108	139	139
REFER FIG.		Fig-1	Fig-1	Fig-2	Fig-1	Fig-2	Fig-1	Fig-1	Fig-2	Fig-1

Unit:mm

# 2-Jaw Wedge Type Through-hole Power Chuck (Without Adaptor) **VERTEX**



- All sliding surfaces are hardened and ground for accurate actual running and long service repeatability. Lubrication nipple in each base jaw.
- Base jaw: 1.5mmx60° serration.
- Mounting: Adaptor mounting to fit with DIN,ISO,BS,ASA B5.9 type A spindles.

## SPECIFICATIONS

Unit:mm

Dim	ORDER NO.	NT205	NT206	NT208	NT210	NT212	NT215
Through-Hole (mm)		Ø33	Ø45	Ø52	Ø75	Ø91	Ø117.5
Plunger Stroke (mm)		10	12	16	19	23	23
Jaw Stroke (mm)		5.4	5.5	7.4	8.8	10.6	10.6
Max. Draw Bar Pull Force (kgf)		1189	1479	2294	2906	3739	4793
Max. Gripping Force (kgf)		2447	3875	5710	7546	9789	12236
Max. Speed (r.p.m.)		7000	6000	4800	4200	3300	2500
Weight (kg)		5.9	13	22.1	33.2	61.9	115
Matching Cylinder		M1036	M1246	M1552	M1875	M2091	M2511
Max. Operating Pressure (kgf/cm <sup>2</sup> )		19.5	18.9	17.3	18.4	18.4	15.3
Matching Soft Jaw		VHC05	VHC06	VHC08	VHC10	VHC12	VHC15
Matching Hard Jaw		HJ05	HJ06	HJ08	HJ10	HJ12	HJ15
CODE NO.		5002-250	5002-251	5002-252	5002-253	5002-254	5002-255

POWER CHUCK

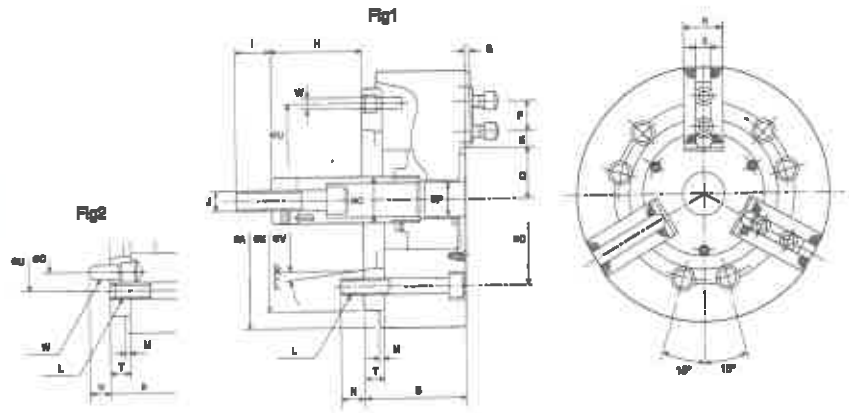
## DIMENSIONS

Unit:mm

Dim	ORDER NO.	NT205	NT206	NT208	NT210	NT212	NT215
A		135	169	210	254	304	381
B		60	81	91	100	110	133
C (H6)		110	140	170	220	220	300
D		20	19	20.5	25	28	43
E		82.55	104.78	133.35	171.45	171.45	235
M		4	5	5	5	6	6
G		23	32	37	42	52	62
H		10	12	14	16	21	24
J		33	45	52	75	91	117.5
K		3-M10	6-M10	6-M12	6-M16	6-M16	6-M20
L		2	2	2	2	2	5
F		45	60	66	94	108	139
N max.		26.5	32	38.7	51	61.3	82
N min.		23.8	29.25	35	46.6	58	76.7
O max.		19.75	22.75	29.75	33.75	45.75	46.75
O min.		7.75	9.25	14.75	14.25	15.75	13.75
P max.		1	11	14.5	8.5	8	7
P min.		-9	-1	-1.5	-10.5	-15	-16
S		12	20	30	45	50	60
T		15.5	16	20	22	23	30
U max.		M40x1.5	M55x2	M60x2	M85x2	M100x2	M130x2
W		14	20	25	30	30	43



# 3-Jaw Wedge Type Non Through-hole Power Chuck (Without Adaptor)



- Direct mounting: Direct mount for VA series chucks onto short taper spindle of ASA and JIS standards.
- High performance: Similar high performance to V series.
- Chuck mounting screws: Metric or UNC socket head cap screws are supplied for bolting the chuck to the spindle.
- Alternative spindle adaptors: ASA or DIN adaptors can be supplied to fit machine spindle.

## SPECIFICATIONS

Unit:mm

Dim	ORDER NO.	V-206A5	V-208A6	V-210A6	V-210A8	V-212A8	V-215A8	V-215A11
Jaw Stroke (mm)		9.2	9.7	8.8	8.8	10.5	16	16
Plunger Stroke (mm)		20	21	25	25	30	35	35
Max. Pull Force (kgf)		1835	2549	2957	2957	4181	8362	8362
Max. Gripping Force (kgf)		5253	7548	10013	10013	15807	25391	25391
Max. Operating Pressure (kgf/cm <sup>2</sup> )		25.5	24.5	28.6	28.6	27.5	30.6	30.6
Max. Speed (r.p.m.)		5000	4000	3500	3500	3000	2800	2800
Weight (kgs)		12.5	24.4	40.65	37.15	61.75	105	103
Moment of Inertia I (kgf.m <sup>2</sup> )		0.045	0.317	0.3	0.3	0.725	1.8	1.8
Matching Cylinder		MS105 MH100	MS125 MH125	MS125 MH125	MS125 MH125	MS150 MH150	MS150 MH150	MS200 MH200
Matching Soft Jaw		VHC08	VHC08	VHC10	VHC10	VHC12-1	VHC15-1	VHC15-1
Matching Hard Jaw		HJ06	HJ08	HJ10	HJ10	HJ12-1	HJ15-1	HJ15-1
CODE NO.		5002-090	5002-091	5002-092	5002-093	5002-094	5002-095	5002-096

## DIMENSIONS

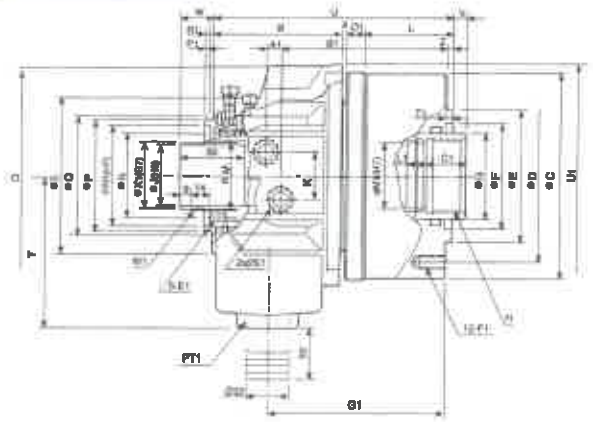
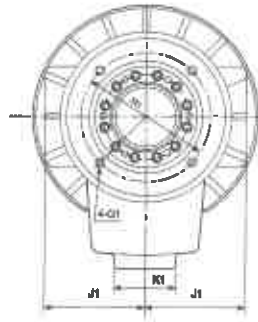
Unit:mm

Dim	ORDER NO.	V-206A5	V-208A5	V-208A6	V-210A6	V-210A8	V-212A8	V-215A8	V-215A11
A		165	210	210	254	254	304	381	381
B		84	103	97	109	102	118	141	130
C		104.78	104.78	133.35	133.35	171.45	171.45	171.45	235
F		20	25	25	30	30	30	43	43
K		140	170	170	220	220	220	300	300
L		6-M10	6-M12	6-M12	6-M16	6-M16	6-M16	6-M16	6-M20
M		5	5	5	5	5	6	6	6
N		14	13	18	18	25	25	24	32
P		21	21	25	34	34	34	-	-
r		15	23	17	25	18	18	33	22
V		82.563	82.563	106.375	106.375	139.719	139.719	139.719	196.869
U		116	133.35	150	171.45	190	190	235	260
E max.		15.25	22.25	22.25	30.75	30.75	48.75	50.25	50.25
E min.		9.25	11.75	11.75	11.25	11.25	12.75	23.25	23.25
G		4	5	5	5	5	5	2	2
H max.		89.6	109	115	133	140	145	71	82
H min.		69.6	88	94	108	115	115	36	47
I		36	36	36	36	36	36	55	55
J		M16x2.0	M20x2.5	M20x2.5	M20x2.5	M20x2.5	M20x2.5	M30x3.5	M30x3.5
Q		34	38	38	45	45	50	60	60
Q max.		38.7	46.75	46.3	51.1	51.1	61	77.5	77.5
Q min.		34.1	41.9	41.9	46.7	46.7	55.75	69.5	69.5
R		31	35	35	40	40	50	50	50
S		12	14	14	16	16	18	25.5	25.5
W		3-M6	6-M10	3-M6	6-M12	6-M8	6-M8	6-M16	3-M10
REFER FIG.		Fig-1	Fig-2	Fig-1	Fig-2	Fig-1	Fig-1	Fig-2	Fig-1





# Super High Speed Through Hole Rotary Hydraulic Cylinder



- **Small-sized light weight:**  
Comparing with the traditional product, it is small-sized (reduced to MAX 95mm) and a light weight (weighted MAX 4.5kgs). Make its capacity more stable to reduce the burden of the machinery at high speed turning.
- **The most largest bore:**  
Comparing with the old product, it has about 20% more bore full diameter for utilizing the capacity of machinery.
- **The safety mechanism:**  
It can retain the gripping force with a check valve.

## SPECIFICATIONS

ORDER NO.	Dim Piston Dia. (mm)	Piston Area		Piston Stroke (mm)	Max. Draw Bar Full Force		Max. Operating Pressure (kgf/cm <sup>2</sup> )	Max. Speed (r.p.m.)	Moment Inertia (kgf.m <sup>2</sup> )	Weight (kgs)	Total Leakage (l/min)	CODE NO.
		Push Side (cm <sup>2</sup> )	Pull Side (cm <sup>2</sup> )		Push Side KN (kgs)	Pull Side KN (kgs)						
M1036	105	71	68.5	15	24.8(2529)	24(2447)	40.8	8000	0.011	8.6	3.0	5003-001
M1236	125	100	89	15	38(3875)	33(3365)	40.8	7000	0.019	13.0	3.0	5003-002
M1246	125	100	89	15	38(3875)	33(3365)	40.8	7000	0.019	12.0	3.0	5003-003
M1546	155	161	150	22	60(6118)	56(5710)	40.8	6200	0.052	18	3.9	5003-004
M1552	155	161	150	22	60(6118)	56(5710)	40.8	6200	0.052	16.8	3.9	5003-005
M1868	180	198	183	25	75(7546)	69(7036)	40.8	4700	0.095	28.0	4.2	5003-006
M1875	180	198	183	25	75(7546)	69(7036)	40.8	4700	0.095	26.0	4.2	5003-007
M2091	205	252	234	30	94(9585)	88(8973)	40.8	3800	0.15	37.0	4.5	5003-008
M2511	250	348	336	23	124(12644)	120(12236)	40.8	2800	0.45	57	7.0	5003-009

## DIMENSIONS

ORDER NO.	Dim																				
	C1	E1	F1	G1	H1	J1	K1	L1	M1	N1	O1	P1	Q1	R1	S1	T1	U1	W1	X1	B	C
M1036	25	M5x0.8	M10x1.5	126	88	68	53	15	38	64	14	4	M5x0.8	4	PT3/8"	6	136	M44x1.5	42	101	136
M1236	30	M6x1.0	M10x1.5	135	98	76	47	15	38	76	14	4	M5x0.8	6	PT1/2"	6	169	M52x1.5	50	99	154.5
M1246	30	M6x1.0	M10x1.5	135	98	76	47	15	50	76	14	4	M5x0.8	6	PT1/2"	6	169	M52x1.5	50	99	154.5
M1546	30	M6x1.0	M10x1.5	145	110	86	47	15	50	85	14	4	M6x1.0	7	PT1/2"	6	187.5	M58x1.5	56	103	190
M1552	30	M6x1.0	M10x1.5	145	110	86	47	15	55	85	14	4	M6x1.0	7	PT1/2"	6	187.5	M58x1.5	56	103	190
M1868	35	M6x1.0	M10x1.5	166.5	155	101	47	15	70	108	16	4	M6x1.0	7	PT1/2"	6	220	M84x2	81	126	215
M1875	35	M6x1.0	M10x1.5	166.5	155	101	47	15	80	108	16	4	M6x1.0	7	PT1/2"	6	220	M84x2	81	126	215
M2091	35	M6x1.0	M12x1.75	183	165	110	47	15	95	120	16	4	M6x1.0	7	PT1/2"	6	267	M99x2	96	141	240
M2511	45	M6x1.0	M16x2.0	197	206	129	55	20	123	160	18	4	M6x1.0	7	PT1/2"	6	294		134.6	186	310

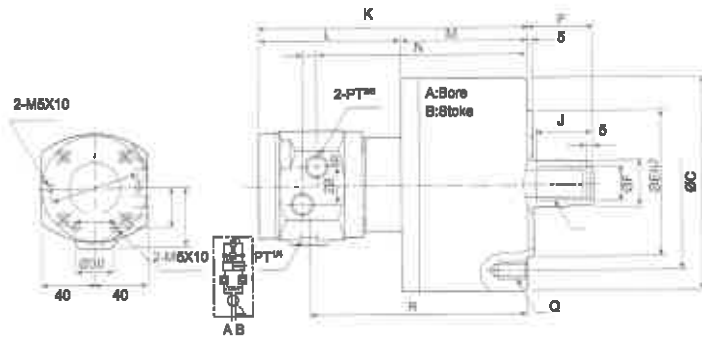
ORDER NO.	Dim																										
	D	E	F	G	H	J	K	L	M	N	O	P	Q	S	T	U	V	V	W	W	X	Z	A1	B1			
																	max	mix	max	mix							
M1036	115	100	65	48	M42x1.5	36	32	62	44.6	54	126	73	80	104	115	179.5	10	-5	39	24	2.5	5	11	120.5			
M1236	130	100	80	65	M42x1.5	36	36	67	52.6	64	166	85	90	118	114	184	10	-5	40	25	4	5	11	126.5			
M1246	130	100	80	65	M55x2	46	36	67	52.6	64	166	85	90	118	114	184	10	-5	40	25	4	5	11	126.5			
M1546	170	130	85	70	M55x2	46	36	75	59.6	73	184	96	102	137	130	196	17	-5	47	25	4	5	11	136			
M1552	170	130	85	70	M60x2	52	36	75	59.6	73	184	96	102	137	130	196	17	-5	47	25	4	5	11	136			
M1868	190	160	120	95	M75x2	68	36	84	84.6	98	215	121	131	166	160	230	20	-5	50	25	4	5	17.5	153.5			
M1875	190	160	120	95	M85x2	75	36	84	84.6	98	215	121	131	166	160	230	20	-5	50	25	4	5	17.5	153.5			
M2091	215	180	140	110	M100x2	91	36	93	99.6	108	264	138	148	182	185	253	25	-5	55	25	3	5	21	168			
M2511	275	230	166	140	M130x2	117.5	36	89	134.6	148	362	178		232	215	296	18	-5	38	15	3	6	27	184.5			



# Non Through Hole Rotary Hydraulic Cylinder (With Valves)



• Built-in safety check valves.



## DIMENSIONS

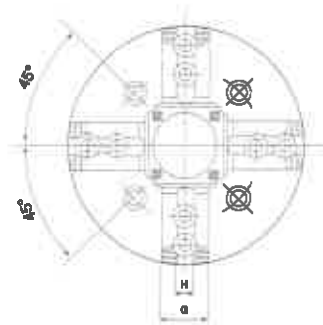
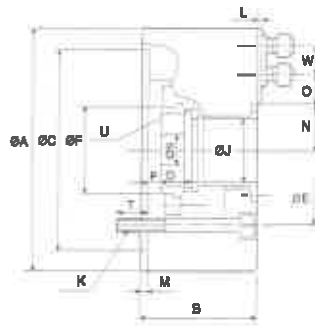
ORDER NO.	Dim																	CODE NO.
	A	B	C	D	E	F	G	H	J	K	L	M	N	P Max.	P Min.	Q	R	
MS105	105	20	135	100	80	30	21	M20x2.5	35	197	108	89	152	45	25	6-M10x20	158	5003-030
MS125	125	25	160	130	110	35	25	M24x3.0	44	205	108	97	160	51	28	6-M12x24	166	5003-031
MS150	150	30	190	130	110	45	31	M30x3.5	45	214	108	108	169	56	28	12-M12x24	175	5003-032
MS200	200	35	245	145	120	55	37	M36x4.0	60	228	108	122	183	69	34	12-M16x30	189	5003-033

## SPECIFICATIONS

ORDER NO.	Dim	Piston Area		Max. Draw Bar Pull Side KN (kgf)	Piston Stroke (mm)	Max. Speed (r.p.m.)	Max. Operating Pressure (kgf/cm <sup>2</sup> )	Total Leakage (l/min)	Moment Inertia (kgf.m <sup>2</sup> )	Weight (kgs)
		Push Side (cm <sup>2</sup> )	Pull Side (cm <sup>2</sup> )							
MS105		86	79	29(2957)	20	6000	4.0(40.8)	0.8	0.0125	7.1
MS125		122	113	42(4283)	25	6000	4.0(40.8)	0.8	0.0225	10
MS150		176	160	60(6118)	30	5500	4.0(40.8)	0.8	0.0475	13.5
MS200		314	290	108(11013)	35	5500	4.0(40.8)	0.8	0.0975	22



# 4-Jaw Wedge Type Through Hole Power Chuck (Without Adaptor)



## DIMENSIONS

ORDER NO.	A	B	C (H6)	D	E	M	G	H	J	K	L	F	N Max.	N Min.	O Max.	O Min.	P Max.	P Min.	S	T	U	W
VNIT-210	254	100	220	25	171.45	5	42	16	75	4-M16	2	94	51	46.6	33.75	14.75	8.5	-10.5	45	22	M85x2	30
VNIT-212	304	110	220	28	171.45	6	52	21	91	4-M16	2	108	61.3	56	45.75	15.75	8	-15	50	23	M100x2	30
VNIT-215	381	133	300	43	235	6	62	24	117.5	4-M20	5	139	82	76.7	46.75	13.75	7	-16	60	30	M130x2	43

## SPECIFICATIONS

ORDER NO.	Through-Hole (mm)	Plunger Stroke (mm)	Jaw Stroke (mm)	Max. Draw Bar Pull Force (kgf)	Max. Gripping Force (kgf)	Max. Speed (r.p.m.)	Weight (kgs)	Matching Cylinder	Max. Operating Pressure (kgf/cm <sup>2</sup> )	CODE NO.
VNIT-208	Ø52	16	7.4	2294	5716	4900	24	M1552	17.3	5003-050
VNIT-210	Ø75	19	8.8	2906	7546	4200	36	M1875	18.4	5003-051
VNIT-212	Ø91	23	10.6	3739	9789	3300	58.5	M2091	18.4	5003-052
VNIT-215	Ø117.5	23	10.6	6828	12236	2500	114	M2511	15.3	5003-053

**NEW**



Lathe Collets  
Please See E25

Please use  
DIN6343 collets

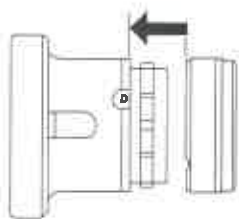
collet illustration



Spring Collet



Multi-Bore Collet



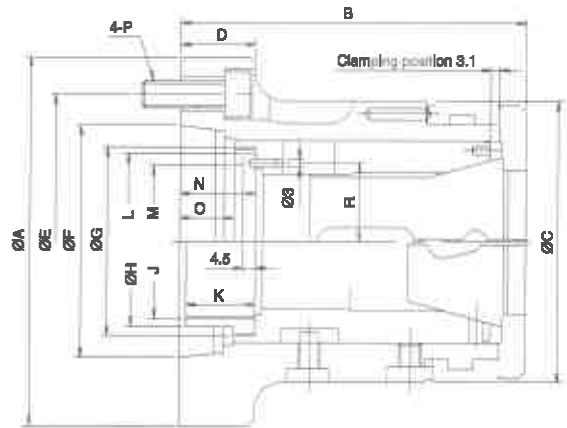
Push the cover



Turn the cover



Tighten the cover anti  
rotation screws



### Holding Range

CHUCK	MULTIBORE	SPRING COLLET						
		NO.	CAT NO.	NO.	CAT NO.			
CR42	M-673	42	36	30	173E/4728	42	36	30
CR60	M-677	60	52	42	185E/4291	60	52	42

### DIMENSIONS

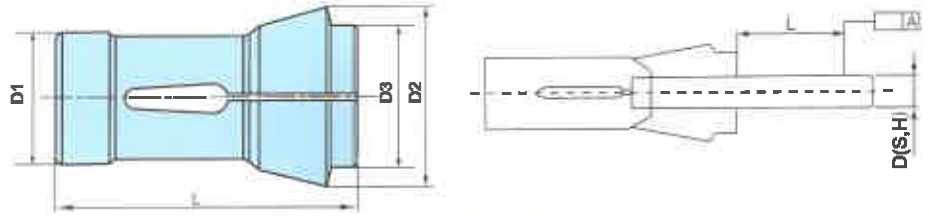
ORDER NO.	A	B	C	D	E	F	G	H	J Max.	K	L	M	N	O	P	R
CR42A5	135	124	100	27	104.78	82.563	M66xP1.5	60	M55xP20	25	62.5	54	27.4	19.4	M10	28
CR42A6	170	124	100	32	133.35	106.375	M66xP1.5	66	M60xP20	25	62.5	54	27.4	19.4	M12	28
CR60A6	170	145	130	27	133.35	106.375	M90xP1.5	67.5	M60xP20	30	83	77	29.9	21.9	M12	39.5

### SPECIFICATIONS

ORDER NO.	Diameter of Shank	Material Diameter (mm)	Collet Travel Distance (mm)	Weight (kgs)	Maximum Bearing KN (kgf)	Maximum Holding Power KN (kgf)	Maximum Speed (r.p.m.)	CODE NO.
CR42A5	A2-5	42	7	6.2	25(2549)	55(5608)	6,000	5003-040
CR42A6	A2-6	42	7	8.2	25(2549)	55(5608)	6,000	5003-041
CR60A6	A2-6	60	7	13	33(3365)	59(6016)	5,000	5003-042

AWL TYPE CHUCK

## DIN6343



Test Bar	D (S,H)	L (mm)	A	
			Class 1	Class 2
0.2~1.0		3	0.015	0.015
1.0~1.6		6		0.020
1.6~3.0		10		
3.0~6.0		16		
6.0~10.0		25		
10.0~18.0		40	0.020	0.030
18.0~24.0		50		
24.0~30.0		60		
30.0~50.0		80	0.030	0.040
50.0~60.0		100		

## DIN6343

COLLET TYPE	STANDARD NO.	D1 (mm)	D2 (mm)	D3 (mm)	L (mm)	KONUSWINKEL SPINDLE CONE ANGLE	COLLET RANGE(mm)		
							○	□	□
C-26	161E	32	45	34	75	15°	Ø3-Ø26	Ø6-Ø22	Ø5-Ø18
C-36	171E	42	55	42	94	15°	Ø36	Ø32	Ø26
C-42	173E	48	60	50	94	15°	Ø3-Ø42	Ø6-Ø36	Ø5-Ø30
C-52	177E	58	70	60	94	15°	Ø52	Ø45	Ø36
C-60	185E	66	84	73	110	15°	Ø3-Ø60	Ø6-Ø50	Ø5-Ø40
C-80	193E	90	107	92	130	15°	Ø3-Ø80	Ø6-Ø70	Ø5-Ø57

## CONE SIZE

C80: Hex./Square shape order to make.

## ROUND SHAPE / METRIC

## METRIC SIZE

C26-DØ ○		C42-DØ ○		C60-DØ ○		C80-DØ ○	
ORDER NO.	CODE NO.	ORDER NO.	CODE NO.	ORDER NO.	CODE NO.	ORDER NO.	CODE NO.
C26-D6	5003-101	C42-D6	5003-131	C60-D8	5003-171	C80-D18	5003-211
C26-D8	5003-102	C42-D8	5003-132	C60-D9	5003-172	C80-D20	5003-212
C26-D9	5003-103	C42-D9	5003-133	C60-D10	5003-173	C80-D25	5003-213
C26-D10	5003-104	C42-D10	5003-134	C60-D11	5003-174	C80-D28	5003-214
C26-D11	5003-105	C42-D11	5003-135	C60-D12	5003-175	C80-D30	5003-215
C26-D12	5003-106	C42-D12	5003-136	C60-D13	5003-176	C80-D32	5003-216
C26-D13	5003-107	C42-D13	5003-137	C60-D14	5003-177	C80-D35	5003-217
C26-D14	5003-108	C42-D14	5003-138	C60-D15	5003-178	C80-D38	5003-218
C26-D15	5003-109	C42-D15	5003-139	C60-D16	5003-179	C80-D40	5003-219
C26-D16	5003-110	C42-D16	5003-140	C60-D17	5003-180	C80-D42	5003-220
C26-D17	5003-111	C42-D17	5003-141	C60-D18	5003-181	C80-D45	5003-221
C26-D18	5003-112	C42-D18	5003-142	C60-D19	5003-182	C80-D48	5003-222
C26-D19	5003-113	C42-D19	5003-143	C60-D20	5003-183	C80-D50	5003-223
C26-D20	5003-114	C42-D20	5003-144	C60-D21	5003-184	C80-D52	5003-224
C26-D21	5003-115	C42-D21	5003-145	C60-D22	5003-185		
C26-D22	5003-116	C42-D22	5003-146	C60-D23	5003-186		
C26-D23	5003-117	C42-D23	5003-147	C60-D24	5003-187		
C26-D24	5003-118	C42-D24	5003-148	C60-D25	5003-188		
C26-D25	5003-119	C42-D25	5003-149	C60-D27	5003-189		
		C42-D27	5003-150	C60-D28	5003-190		
		C42-D28	5003-151	C60-D30	5003-191		
		C42-D30	5003-152	C60-D32	5003-192		
		C42-D32	5003-153	C60-D34	5003-193		
		C42-D34	5003-154	C60-D36	5003-194		
		C42-D36	5003-155	C60-D38	5003-195		
		C42-D38	5003-156	C60-D40	5003-196		
		C42-D40	5003-157	C60-D42	5003-197		
		C42-D42	5003-158	C60-D45	5003-198		
				C60-D47	5003-199		
				C60-D48	5003-200		
				C60-D50	5003-201		

HEX. SHAPE / METRIC		METRIC SIZE			
C26-H		C42-H		C60-H	
ORDER NO.	CODE NO.	ORDER NO.	CODE NO.	ORDER NO.	CODE NO.
C26-H8	5003-241	C42-H8	5003-261	C60-H8	5003-281
C26-H10	5003-242	C42-H10	5003-262	C60-H10	5003-282
C26-H12	5003-243	C42-H12	5003-263	C60-H12	5003-283
C26-H13	5003-244	C42-H13	5003-264	C60-H13	5003-284
C26-H15	5003-245	C42-H15	5003-265	C60-H15	5003-285
C26-H16	5003-246	C42-H16	5003-266	C60-H16	5003-286
C26-H17	5003-247	C42-H17	5003-267	C60-H17	5003-287
C26-H19	5003-248	C42-H19	5003-268	C60-H19	5003-288
C26-H20	5003-249	C42-H20	5003-269	C60-H20	5003-289
C26-H21	5003-250	C42-H21	5003-270	C60-H21	5003-290
		C42-H22	5003-271	C60-H22	5003-291
		C42-H24	5003-272	C60-H24	5003-292
		C42-H25	5003-273	C60-H25	5003-293
		C42-H27	5003-274	C60-H27	5003-294
		C42-H30	5003-275	C60-H30	5003-295

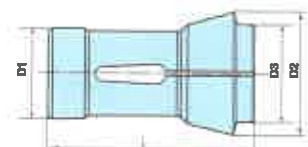
### DIN6343

COLLET TYPE	STANDARD NO.
C-26	161E
C-42	173E
C-60	185E
C-80	193E

ROUND SHAPE / INCH		INCH SIZE					
C26-DØ		C42-DØ		C60-DØ		C80-DØ	
ORDER NO.	CODE NO.	ORDER NO.	CODE NO.	ORDER NO.	CODE NO.	ORDER NO.	CODE NO.
C26-D1/4"	5003-301	C42-D1/4"	5003-321	C60-D3/8"	5003-351	C80-D3/4"	5003-381
C26-D3/8"	5003-302	C42-D3/8"	5003-322	C60-D1/2"	5003-352	C80-D7/8"	5003-382
C26-D1/2"	5003-303	C42-D1/2"	5003-323	C60-D5/8"	5003-353	C80-D1"	5003-383
C26-D5/8"	5003-304	C42-D5/8"	5003-324	C60-D3/4"	5003-354	C80-D1 1/8"	5003-384
C26-D3/4"	5003-305	C42-D3/4"	5003-325	C60-D7/8"	5003-355	C80-D1 1/4"	5003-385
C26-D7/8"	5003-306	C42-D7/8"	5003-326	C60-D1"	5003-356	C80-D1 3/8"	5003-386
C26-D1"	5003-307	C42-D1"	5003-327	C60-D1 1/8"	5003-357	C80-D1 1/2"	5003-387
		C42-D1 1/8"	5003-328	C60-D1 1/4"	5003-358	C80-D1 5/8"	5003-388
		C42-D1 1/4"	5003-329	C60-D1 3/8"	5003-359	C80-D1 3/4"	5003-389
		C42-D1 3/8"	5003-330	C60-D1 1/2"	5003-360	C80-D1 7/8"	5003-390
		C42-D1 1/2"	5003-331	C60-D1 5/8"	5003-361	C80-D2"	5003-391
		C42-D1 5/8"	5003-332	C60-D1 3/4"	5003-362	C80-D2 1/8"	5003-392
				C60-D1 7/8"	5003-363	C80-D2 1/4"	5003-393
				C60-D2"	5003-364	C80-D2 3/8"	5003-394
						C80-D2 1/2"	5003-395
						C80-D2 5/8"	5003-396
						C80-D2 7/8"	5003-397
						C80-D3"	5003-398

LATHE COLLET

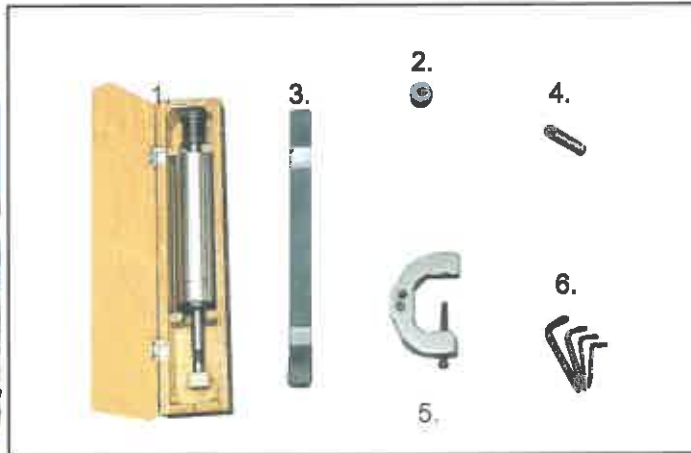
HEX. SHAPE / INCH		INCH SIZE			
C26-H		C42-H		C60-H	
ORDER NO.	CODE NO.	ORDER NO.	CODE NO.	ORDER NO.	CODE NO.
C26-H1/4"	5003-411	C42-H3/8"	5003-431	C60-H3/8"	5003-451
C26-H3/8"	5003-412	C42-H1/2"	5003-432	C60-H1/2"	5003-452
C26-H1/2"	5003-413	C42-H5/8"	5003-433	C60-H5/8"	5003-453
C26-H5/8"	5003-414	C42-H3/4"	5003-434	C60-H3/4"	5003-454
C26-H3/4"	5003-415	C42-H7/8"	5003-435	C60-H7/8"	5003-455
C26-H7/8"	5003-416	C42-H1"	5003-436	C60-H1"	5003-456
		C42-H1 1/8"	5003-437	C60-H1 1/8"	5003-457
		C42-H1 1/4"	5003-438	C60-H1 1/4"	5003-458
				C60-H1 3/8"	5003-459



SQUARE SHAPE / INCH		INCH SIZE			
C26-S		C42-S		C60-S	
ORDER NO.	CODE NO.	ORDER NO.	CODE NO.	ORDER NO.	CODE NO.
C26-S1/4"	5003-471	C42-S3/8"	5003-491	C60-S3/8"	5003-501
C26-S3/8"	5003-472	C42-S1/2"	5003-492	C60-S1/2"	5003-502
C26-S1/2"	5003-473	C42-S5/8"	5003-493	C60-S5/8"	5003-503
C26-S5/8"	5003-474	C42-S3/4"	5003-494	C60-S3/4"	5003-504
		C42-S7/8"	5003-495	C60-S7/8"	5003-505
				C60-S1"	5003-506
				C60-S1 1/8"	5003-507



### For Internal Grinding



### Standard Accessories

1. Internal Spindle .....	1
2. Pulley for Internal Grinding .....	2
3. Flat Belt .....	1
4. Diamond tool .....	1
5. Holder for Diamond Tool .....	1
6. Key Folds (8, 5, 3, 2mm) .....	4

- ※ VGR-175, VGR-185 WITHOUT INTERNAL SPINDLE
- ※ ECONOMICAL TYPE FOR LIGHT DUTY ONLY
- ※ 220V/3 PH, 380V/3PH
- ※ COLOR & SHAPE MAY VARY..

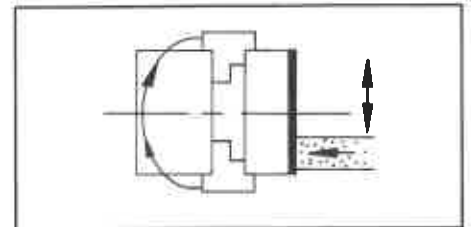
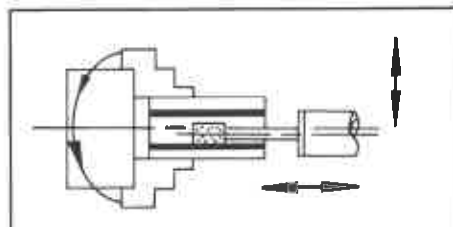
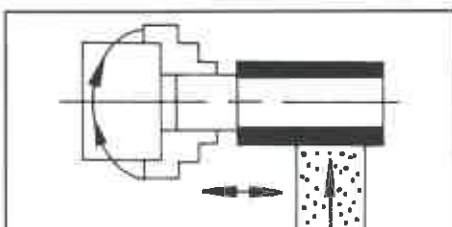
※ Guaranteed for 3 months

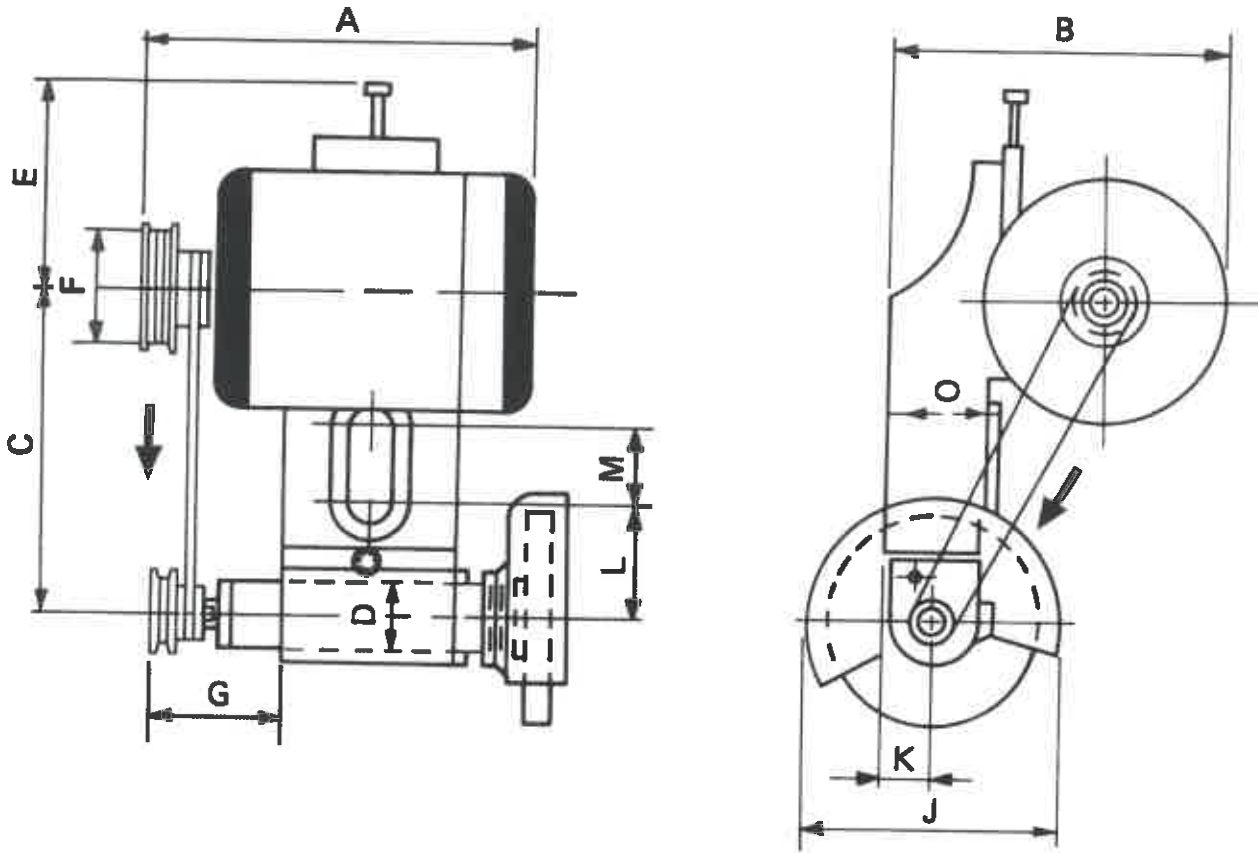
### Characteristic Features

- Both the main shafts have been specially designed, and the world-wide precision bearing is used to fit the main shafts which are made of alloy steel heat-treated for high wear resistance, precision, as well as maintaining to the lowest temperature for durability and stability.
- The motor base and the spindle bushing are adjustable.
- The motor is well designed with a special and nice appearance, The R.P.M. of this motor varied depending on the size of the workpiece.
- This grinder is capable of grinding the work piece to a minimum of 3 mm in outer diameter and from 2mm up in inner diameter (bore) with the accuracy within 0.003mm and a well finished surface. (supplied with special attachments).
- The spindle bushing is made of cast iron, and supported by three surfaces. Therefore, it is durable and elastic.
- Materials such as steel, iron, copper (brass), aluminum, cast iron, plastics, procelaln, marble, regardless of being heat treated or not, can be ground on this machine which functions lie a cylindrical grinder. So it may lower the cost of the production.

We assure you of high quality products.

### ※ Types of Grinding For Work Pieces





※ CLOCR MAY VARY  
 ※ NOT FOR HIGH PRECISION GRINDING

ORDER NO.	Main Dimension. (mm)												Net Weight (kgs)	Packing Size (mm)
	A	B	C	D	E	F	G	J	K	L	M	O		
VGR-185	352	350	300-340	80	180	138	85	330	45-70	140	40	120	80	700x500x520
VGR-175	315	300	260-320	60	170	138	120	280	45-70	135	40	92	75	650x460x460
VGR-165	280	275	260-310	50	160	110	65	230	40-65	105	40	85	48	520x430x350
VGR-150	280	275	250-300	48	160	110	65	150	40-65	105	40	85	38	520x430x350
VGR-125	270	230	230-280	48	-	110	65	150	34-58	90	15	75	35	520x430x350
VGR-100	235	200	170	40	-	110	50	150	28	45	10	64	24	450x320x340

ORDER NO.	HP	External Spindle		Internal Spindle				Grinder on Lathe (Length of Bed of Lathe) Ft.	For Swing m/m	CODE NO.		
		Size of Wheel dia x width-hole	(R.P.M.) Non-load Speed	Diameter to be ground	Size of Wheel dia x width x hole	(R.P.M.) Non-load Speed	Grinding Depth (mm)					
VGR-185	3	12"x1"x1"	60 cycle 1930	50 cycle 1600	-	External only	-	-	-	over 12	800-1800	5004-001
VGR-175	2	10"x1"x1"	2300	1930	-	External only	-	-	-	10-12	700-1700	5004-002
VGR-165	1	8"x3/4"x3/4"	3000 3700	2490 3070	25-50	1"x3/8"x1/4"	20000 13500	16800 11500	70	8-10	650-1600	5004-003
VGR-150	1	5"x5/8"x5/8"	4500 6000	3750 5000	19-40	1"x3/8"x1/4"	20000 13500	16800 11500	70	6-8	550-900	5004-004
VGR-125	1/2	5"x5/8"x5/8"	4500 6000	3750 5000	19-40	1"x3/8"x1/4"	20000 13500	16800 11500	70	4-6	430-850	5004-005
VGR-100	1/4	5"x5/8"x5/8"	4500 6000	3750 5000	19-40	1"x3/8"x1/4"	20000 13500	16800 11500	50	under 4	320-400	5004-006



# VDI Tool Holders

Coupling Type System



VERTEX®

DIN69880

A DIN 1809 (For DUPLOMATIC)



Coupling to DIN 1809

B DIN 5480 (For SAUTER/DUPLOMATIC)



Coupling to DIN 5480

C DIN 5482 (For SAUTER/DUPLOMATIC)



Coupling to DIN 5482

D MT (For BARUFFALDI)



Spur Coupling

E IT (For DUPLOMATIC)



Spur Coupling

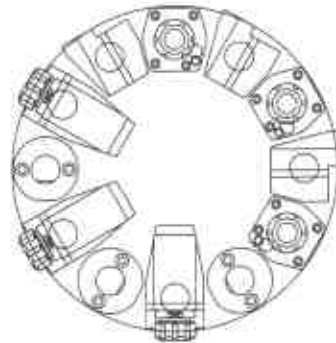
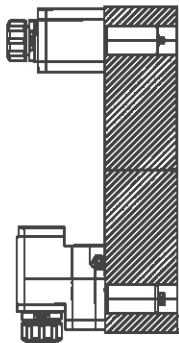


# VDI Tool Holders

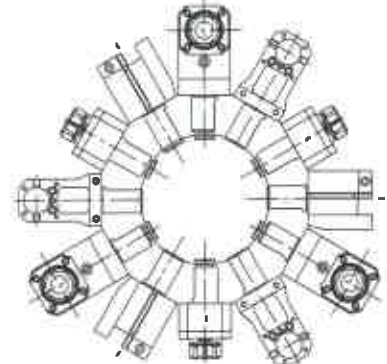
Tool Holders Direction System

DIN69880

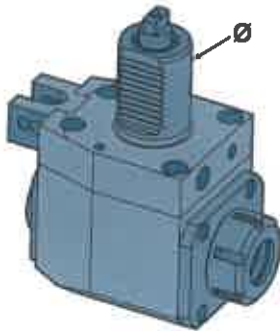
A: Axial Direction



B: Radial Direction (Star Turret)

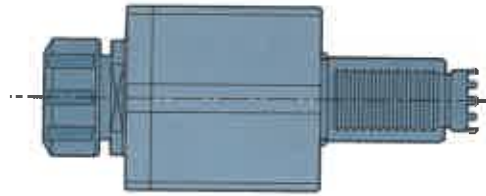






**DA**

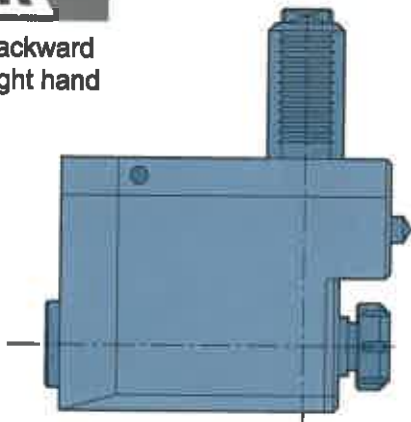
Stright Direct Drive



	VDI 20	VDI 30	VDI 40	VDI 50
<b>SHAFT DIA.</b>	20	30	40	50

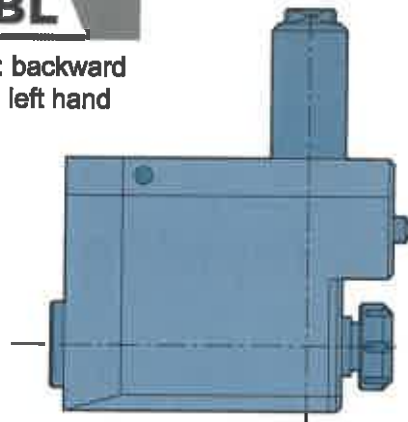
**BR**

B: backward  
R: right hand



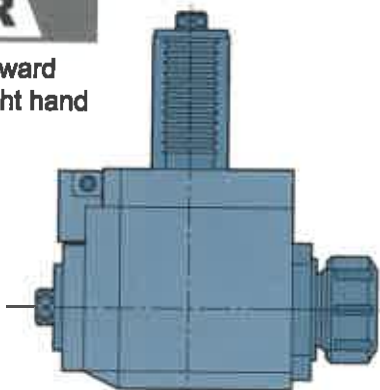
**BL**

B: backward  
L: left hand



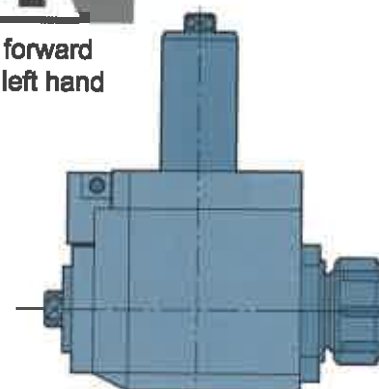
**FR**

F: forward  
R: right hand



**FL**

F: forward  
L: left hand



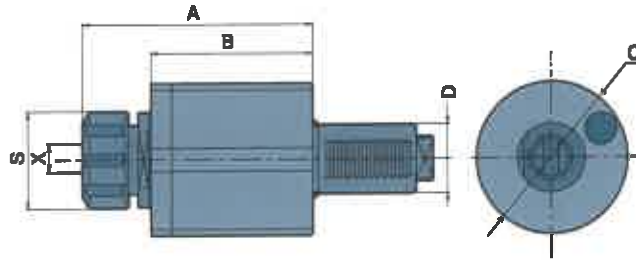
**TXX**

T: Tapping

**EX:**

- BR4018093290 it's VDI 40, right hand, coupling type 1809, backward come with ER 32 nut. P.C.D. is 90mm
  - FL3054822555 it's VDI 30 left hand coupling type 5482 (B15x12) forward, come with ER 25 nut. P.C.D. is 55mm
- ※ ORDER MADE, NOT REFUNDABLE.

VDI



**Power Transmission According To DIN 1809**

- External coolant supply
- Collet is not included
- To be used for collet DIN 6499

## DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	CODE NO.
DA20180916	20	1-10 ER16	32	6000	1 : 1	77	49	58	5006-001
DA30180925	30	1-16 ER25	42	6000	1 : 1	101	70	68	5006-002
DA40180932	40	2-20 ER32	50	6000	1 : 1	111	73.5	86	5006-003
DA50180940	50	3-26 ER40	63	6000	1 : 1	120	81.5	96	5006-004
DA60180950	60	10-34 ER50	78	6000	1 : 1	140	88.5	116	5006-005

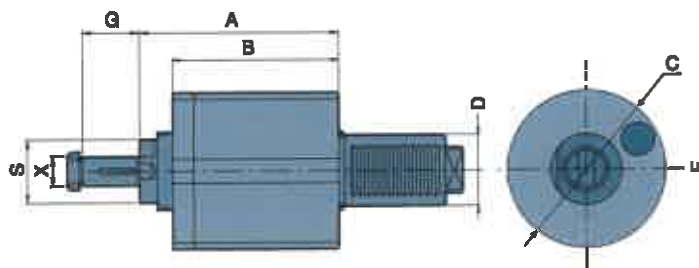
## Axial Tapping Heads

### DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	CODE NO.
TDA30180916	30	1-10 ER16	30	3000	1 : 1	108	71.5	68	5006-006
TDA40180920	40	1-13 ER20	35	3000	1 : 1	95.5	55	86	5006-007
TDA50180925	50	1-16 ER25	42	3000	1 : 1	123	81.5	96	5006-008
TDA60180932	60	2-20 ER32	50	3000	1 : 1	158.5	88.5	116	5006-009

## Axial Milling Heads

DIN 1809



- External coolant and intermediate rings supply
- To be used for cutter arbor according to DIN 6358

### DIMENSIONS

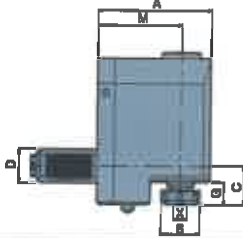
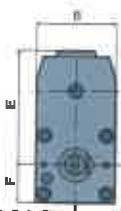
ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	G	CODE NO.
DA30180916C	30	16	32	3000	1 : 1	91.5	70	68	27	5006-010
DA40180922C	40	22	40	3000	1 : 1	86.5	73.5	86	31	5006-012
DA50180922C	50	22	40	3000	1 : 1	117	81.5	96	31	5006-013
DA50180927C	50	27	40	3000	1 : 1	117	81.5	96	33	5006-014



# Radial Drilling And Milling Heads-Back Ward Type



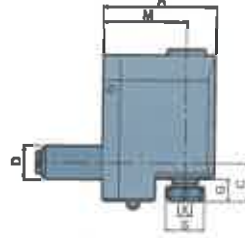
MODE: BL  
LEFT-HAND



MODE: BR  
RIGHT-HAND



DIN 1809



- External coolant supply
- Collet is not included
- To be used for collet DIN 6499

## DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	CODE NO.
BR2018091660 BL2018091660	20	1-10 ER16	30	5000	1:1	83	50	35	70	27	27	60	5006-015A
BR3018092572 BL3018092572	30	1-16 ER25	42	5000	1:1	95	60	41.5	75.5	31.5	29	72	5006-016A
BR4018093290 BL4018093290	40	2-20 ER32	50	5000	1:1	124	80	44	110	42	34	90	5006-017
BR5018094090 BL5018094090	50	3-26 ER40	63	5000	1:1	129	86	49	112	45	39	90	5006-018
BR60180950106 BL60180950106	60	10-34 ER50	78	5000	1:1	154	104	74.5	123	54	52	106	5006-019A



# Radial Tapping Heads-Back Ward Type

## DIMENSIONS

DIN 1809

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	CODE NO.
TBR3018091672 TBL3018091672	30	1-10 ER16	30	3000	1:1	95	60	44	75.5	31.5	32	72	5006-020A
TBR4018092090 TBL4018092090	40	1-13 ER20	35	3000	1:1	124	80	59.5	110	42	49.5	90	5006-021
TBR5018092590 TBL5018092590	50	1-16 ER25	42	3000	1:1	129	86	54	112	45	36	90	5006-022
TBR60180932106 TBL60180932106	60	2-20 ER32	50	3000	1:1	154	104	105	123	54	82.5	106	5006-023A

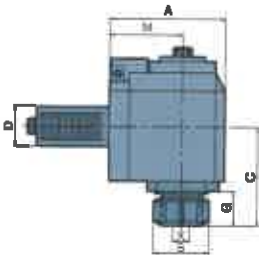


# Radial Drilling And Milling Heads

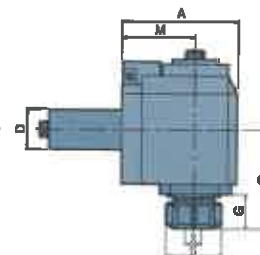
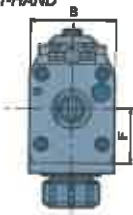
※ ORDER MADE, NOT REFUNDABLE.

DIN 1809

MODE: FL  
LEFT-HAND



MODE: FR  
RIGHT-HAND



- To be used for collet DIN 6499
- Collet is not included
- External coolant supply

## DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	CODE NO.
FR3018092555 FL3018092555	30	1-16 ER25	42	5000	1:1	87	64	74.5	34	26	55	5006-024
FR4018093265 FL4018093265	40	2-20 ER32	50	5000	1:1	99	80	71	40	23	65	5006-025
FR5018094075 FL5018094075	50	3-26 ER40	63	5000	1:1	115	88	101	56	34	75	5006-026



# Radial Tapping Heads

## DIMENSIONS

DIN 1809

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	CODE NO.
TFR3018091655 TFL3018091655	30	1-10 ER16	30	3000	1:1	87	64	75	41	30	55	5006-027
TFR4018092065 TFL4018092065	40	1-13 ER20	35	3000	1:1	99	80	93.5	40	46	65	5006-028
TFR5018092575 TFL5018092575	50	1-16 ER25	42	3000	1:1	115	88	103	56	42	75	5006-029



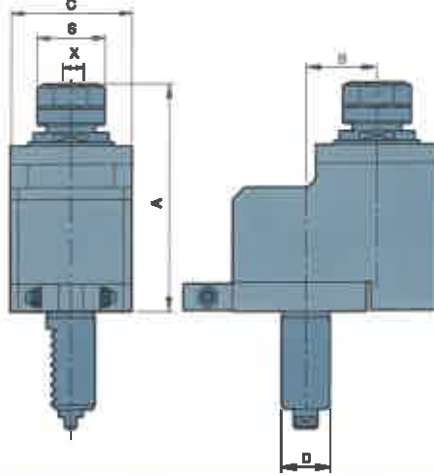
# Axial Drilling And Milling Heads



# VERTEX

OFFSET

DIN 1809



- ◆ Collet is not included
- ◆ To be used for collet DIN 6499
- External coolant supply

## DIMENSIONS

i is speed ratio example:1:2. It's 2 times of speed

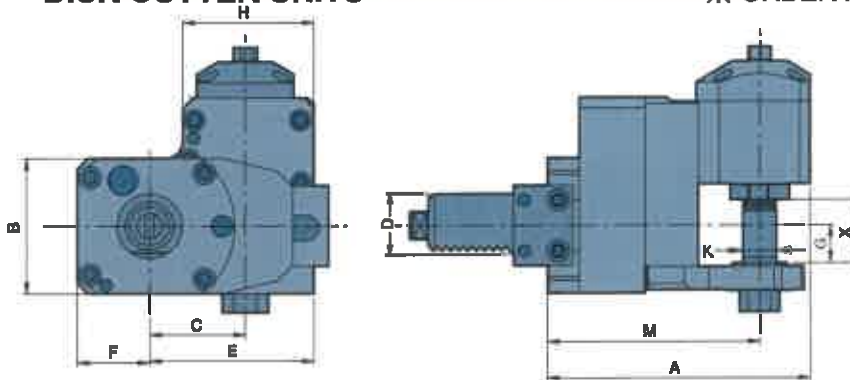
ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	CODE NO.
DA2018091629	20	1-10 ER16	30	4000	1 : 1	93.5	29	50	5006-030
DA3018092529	30	1-16 ER25	42	4000	1 : 1	100	29	60	5006-031
DA3018092529/1	※30	1-16 ER25	42	8000	1 : 2	100	29	60	5006-032
DA4018093250	40	2-20 ER32	50	4000	1 : 1	125.5	50	75	5006-033
DA5018094065	50	3-26 ER40	63	3000	1 : 1	124	65	86	5006-034



# Radial Milling Heads

DISK CUTTER UNITS

※ ORDER MADE, NOT REFUNDABLE. DIN 1809



- External coolant supply

## DIMENSIONS

i:(3:1), It's 3 times of speed decrease

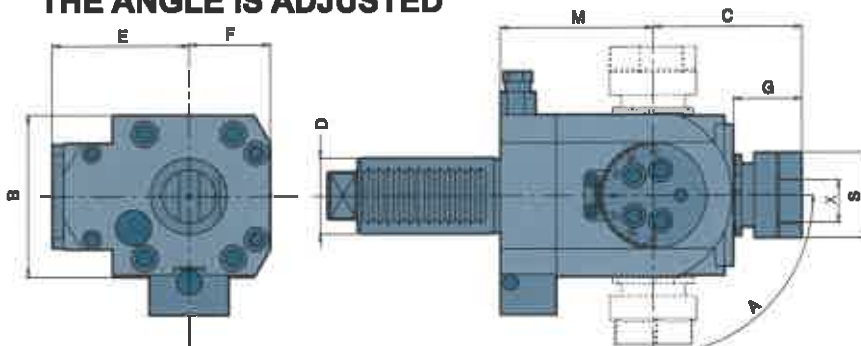
ORDER NO.	D DIN 69880	X Capacity	Maximum R.P.M.	i	A	B	C	E	F	G	H	K	M	CODE NO.
BR30180916C/3 BL30180916C/3	30	16	3000	3 : 1	133	64	45	77.5	49	5	65	16	107.5	5006-035



# Angular Heads

THE ANGLE IS ADJUSTED

DIN 1809



- ◆ To be used for collet DIN 6499
- External coolant supply
- Collet is not included

## DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	CODE NO.
DA30180920B	30	1-13 ER20	35	4000	1 : 1	±90°	64	59	54	32	27	60	5006-036A

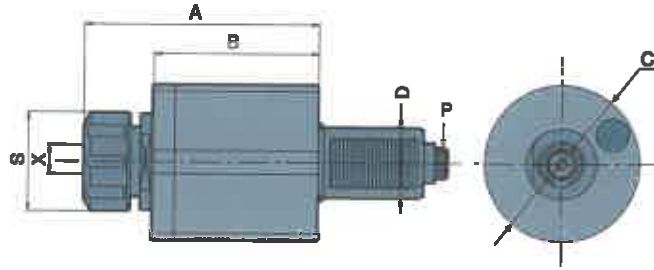


# Axial Drilling And Milling Heads



※ ORDER MADE, NOT REFUNDABLE.

DIN 5480



**Power Transmission According To DIN 5480**

- External coolant supply
- To be used for collet DIN 6499
- Collet is not included

## DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	I	A	B	C	P DIN 5480	CODE NO.
DA30548025	30	1-16 ER25	42	6000	1 : 1	101	70	68	W16X0.8	5006-037
DA40548032	40	2-20 ER32	50	6000	1 : 1	110	55	86	W20X0.8	5006-038

## Axial Tapping Heads

DIN 5480

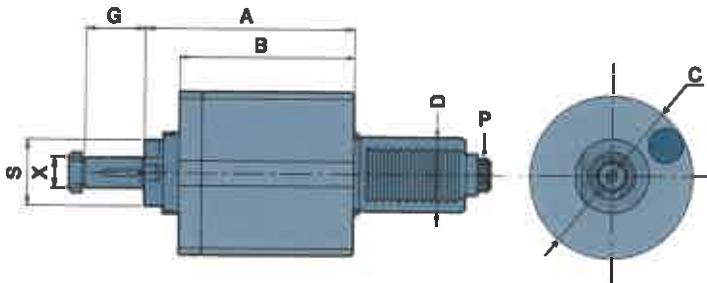
### DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	I	A	B	C	P DIN 5480	CODE NO.
TDA30548016	30	1-10 ER16	30	3000	1 : 1	108	71.5	68	W16X0.8	5006-039A
TDA40548020	40	1-13 ER20	35	3000	1 : 1	95.5	55	86	W20X0.8	5006-040A



## Axial Milling Heads

DIN 5480



- To be used for cutter arbor according to DIN 6358
- External coolant and intermediate rings supply

## DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	I	A	B	C	G	P DIN 5480	CODE NO.
DA30548016C	30	16	32	3000	1 : 1	91.5	70	68	27	W16X0.8	5006-041
DA40548016C	40	16	32	3000	1 : 1	68.5	55	86	27	W20X0.8	5006-042
DA40548022C	40	22	32	3000	1 : 1	68.5	55	86	31	W20X0.8	5006-043

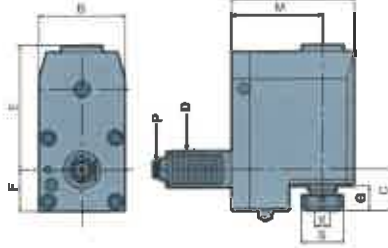


# Radial Drilling And Milling Heads-Backward Type

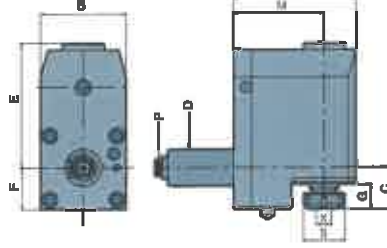


※ ORDER MADE, NOT REFUNDABLE.

MODE: BL  
LEFT-HAND



MODE: BR  
RIGHT-HAND



- To be used for collet DIN 6499
- Collet is not included
- External coolant supply

## DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	P DIN 5480	CODE NO.
BR3054802572 BL3054802572	30	1-16 ER25	42	5000	1 : 1	95	60	41.5	75.5	31.5	28.5	72	W16X0.8	5006-044A
BR4054803290 BL4054803290	40	2-20 ER32	50	5000	1 : 1	124	80	44	110	42	34	90	W20X0.8	5006-045

# Radial Tapping Heads-Set Back

DIN 5480

## DIMENSIONS

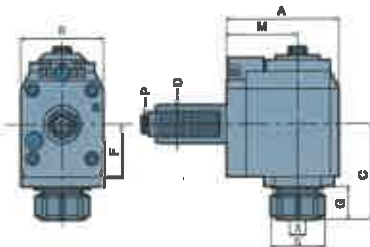
ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	P DIN 5480	CODE NO.
TBR3054801672 TBL3054801672	30	1-10 ER16	30	3000	1 : 1	95	60	44	75.5	31.5	32	72	W16X0.8	5006-046A
TBR4054802090 TBL4054802090	40	1-13 ER20	35	3000	1 : 1	124	80	59.5	110	42	49.5	90	W20X0.8	5006-047



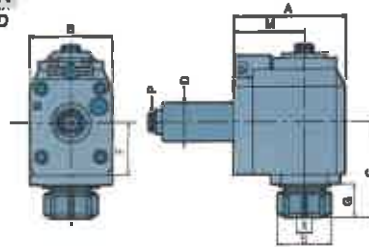
# Radial Drilling And Milling Heads

DIN 5480

MODE: FL  
LEFT-HAND



MODE: FR  
RIGHT-HAND



- To be used for collet DIN 6499
- Collet is not included
- External coolant supply

## DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	P DIN 5480	CODE NO.
FR3054802555 FL3054802555	30	1-16 ER25	42	5000	1 : 1	97	64	74.5	41	26	55	W16X0.8	5006-048
FR3054802585 FL3054802585	30	1-16 ER25	42	5000	1 : 1	117	64	74.5	41	26	85	W16X0.8	5006-049
FR4054803265 FL4054803265	40	2-20 ER32	50	5000	1 : 1	99	80	71	40	23	65	W20X0.8	5006-050
FR4054803285 FL4054803285	40	2-20 ER32	50	5000	1 : 1	119	80	71	40	23	85	W20X0.8	5006-051
FR40548032100 FL40548032100	40	2-20 ER32	50	5000	1 : 1	134	80	71	40	23	100	W20X0.8	5006-052

# Radial Tapping Heads

## DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	P DIN 5480	CODE NO.
TFR3054801655 TFL3054801655	30	1-10 ER16	30	3000	1 : 1	97	64	75	41	30	55	W16X0.8	5006-053A
TFR3054801685 TFL3054801685	30	1-10 ER16	30	3000	1 : 1	117	64	75	41	30	85	W16X0.8	5006-054
TFR4054802065 TFL4054802065	40	1-13 ER20	35	3000	1 : 1	99	80	70	40	25	65	W20X0.8	5006-055
TFR4054802085 TFL4054802085	40	1-13 ER20	35	3000	1 : 1	119	80	70	40	25	85	W20X0.8	5006-056



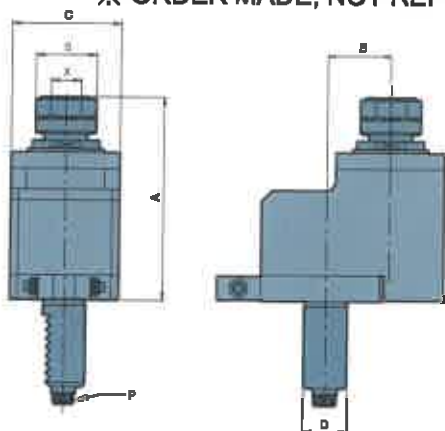
# Axial Drilling And Milling Heads-Offset



OFFSET

※ ORDER MADE, NOT REFUNDABLE.

DIN 5480



- Collet is not included
- To be used for collet DIN 6499
- External coolant supply

## DIMENSIONS

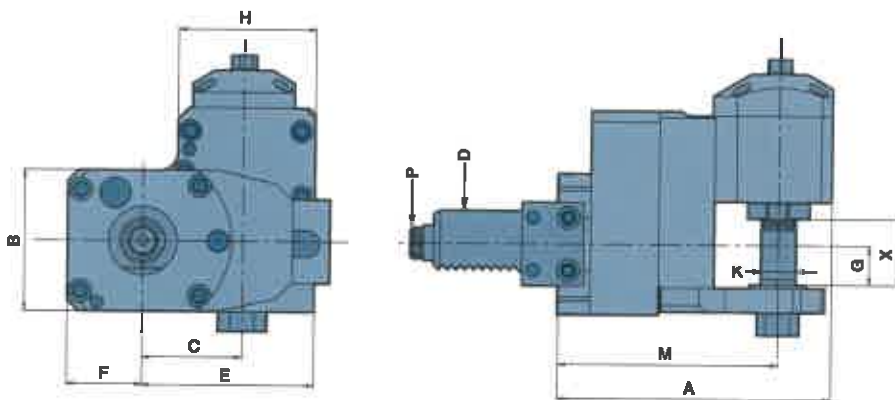
ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	I	A	B	C	P DIN 5480	CODE NO.
DA3054802529	30	1-16 ER25	42	4000	1 : 1	100	29	60	W16X0.8	5006-057
DA3054802529/1	※ 30	1-16 ER25	42	8000	1 : 2	100	29	60	W16X0.8	5006-058
DA4054803250	40	2-20 ER32	50	4000	1 : 1	125	65	86	W20X0.8	5006-059



# Radial Drilling And Milling Heads

DISK CUTTER UNITS

DIN 5480



- External coolant supply

## DIMENSIONS

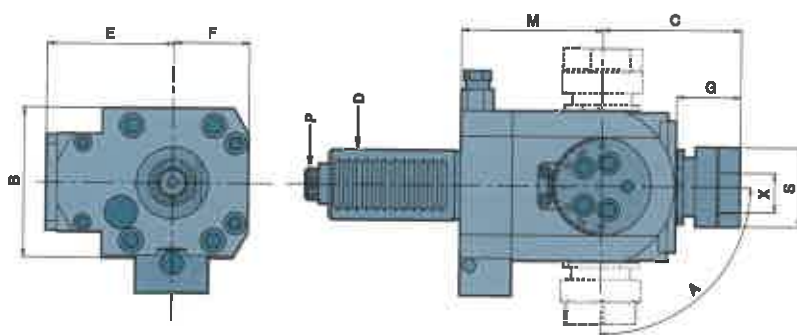
ORDER NO.	D DIN 69880	X Capacity	Maximum R.P.M.	I	A	B	C	E	F	G	H	K	M	P DIN 5480	CODE NO.
BR30548016C/3 BL30548016C/3	30	16	3000	3 : 1	133	64	45	77.5	49	5	65	16	108.5	W16X0.8	5006-060



# Angular Heads

ANGLE IS ADJUSTED

DIN 5480



- Collet is not included
- To be used for collet DIN 6499
- External coolant supply

## DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	I	A	B	C	E	F	G	M	P DIN 5480	CODE NO.
DA30548020B	30	1-13 ER20	35	4000	1 : 1	±90°	64	59	54	32	27	67	W16X0.8	5006-061A

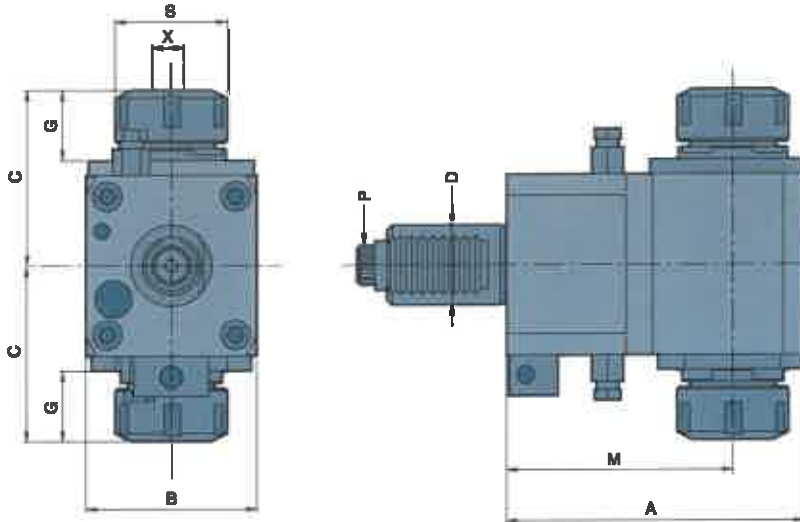


# Radial Double Drilling And Milling Heads



※ ORDER MADE, NOT REFUNDABLE.

DIN 5480



- Collet is not included
- External coolant supply
- To be used for collet DIN 6499

## DIMENSIONS

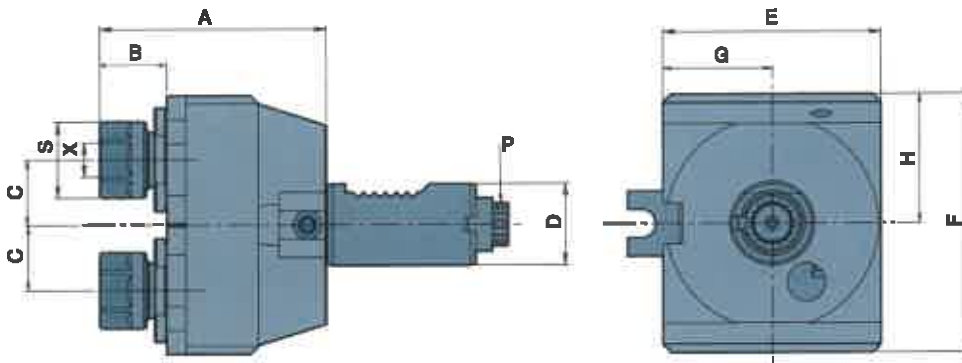
ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	I	A	B	C	G	M	P DIN 5480	CODE NO.
DF3054802585D	30	1-16 ER25	42	4000	1 : 1	112	64	66	26.5	85	W16X0.8	5006-062
DF4054803285D	40	2-20 ER32	50	4000	1 : 1	119	80	82	28	85	W20X0.8	5006-063
DF40548032100D	40	2-20 ER32	50	4000	1 : 1	134	80	82	28	100	W20X0.8	5006-064



# Axial Double Drilling And Milling Heads

DOUBLE COLLETS, Y OFFSET

DIN 5480

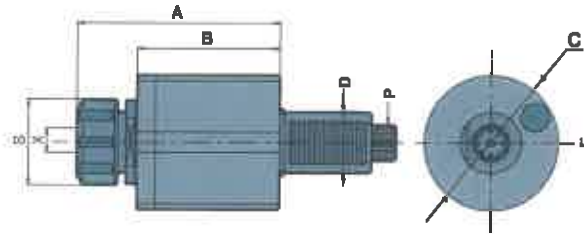
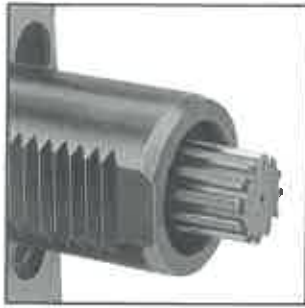


- Collet is not included
- External coolant supply
- To be used for collet DIN 6499

## DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	I	A	B	C	E	F	G	H	P DIN 5480	CODE NO.
DA30548016DY	30	1-10 ER16	30	4000	1 : 1	83	24.5	24	80	95	40	48	W16X0.8	5006-065





**Power Transmission According To DIN 5482**

- External coolant supply
- To be used for collet DIN 6499
- ◆ Collet is not included

**DIMENSIONS**

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	P DIN 5482	CODE NO.
DA30548225	30	1-16 ER25	42	6000	1 : 1	101	70	68	B15X12	5006-066
DA40548232	40	2-20 ER32	50	6000	1 : 1	110	73.5	86	B17X14	5006-067
DA50548240	50	3-26 ER40	63	6000	1 : 1	120	81.5	96	B20X17	5006-068
DA60548250	60	10-34 ER50	78	6000	1 : 1	140	88.5	116	B25X22	5006-069

## Axial Tapping Heads

DIN 5482

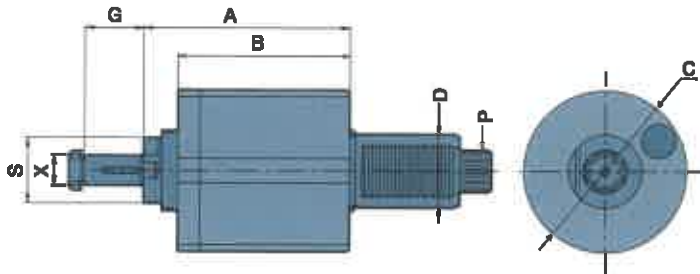
**DIMENSIONS**

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	P DIN 5482	CODE NO.
TDA30548216	30	1-10 ER16	30	3000	1 : 1	108	71.5	68	B15X12	5006-070
TDA40548220	40	1-13 ER20	35	3000	1 : 1	95.5	55	86	B17X14	5006-071
TDA50548225	50	1-16 ER25	42	3000	1 : 1	123	81.5	96	B20X17	5006-072
TDA60548232	60	2-20 ER32	50	3000	1 : 1	158.5	88.5	116	B25X22	5006-073

## Axial Milling Heads

※ ORDER MADE, NOT REFUNDABLE.

DIN 5480



- External coolant and intermediate rings supply
- ◆ To be used for cutter arbor according to DIN 6358

**DIMENSIONS**

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	G	P DIN 5482	CODE NO.
DA30548216C	30	16	32	3000	1 : 1	91.5	70	68	27	B15X12	5006-074
DA40548216C	40	16	32	3000	1 : 1	68.5	55	86	27	B17X14	5006-075
DA40548222C	40	22	32	3000	1 : 1	68.5	55	86	31	B17X14	5006-076
DA50548222C	50	22	40	3000	1 : 1	117	81.5	96	31	B20X17	5006-077
DA50548227C	50	27	40	3000	1 : 1	117	88.5	96	33	B20X17	5006-078



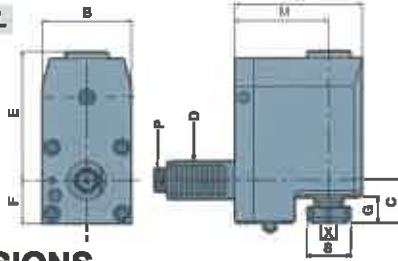
# Radial Drilling And Milling Heads



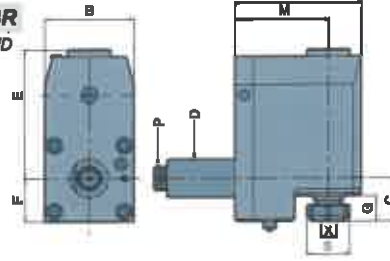
## BACKWARDS

## DIN 5482

MODE: BL  
LEFT-HAND



MODE: BR  
RIGHT-HAND



- ◆ To be used for collet DIN 6499
- ◆ Collet is not included
- ◆ External coolant supply

## DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	P DIN 5482	CODE NO.
BR3054822572 BL3054822572	30	1-16 ER25	42	5000	1 : 1	95	60	42	75.5	31.5	28.5	72	B15X12	5006-079A
BR4054823290 BL4054823290	40	2-20 ER32	50	5000	1 : 1	124	80	44	110	42	34	90	B17X14	5006-080
BR5054824090 BL5054824090	50	3-26 ER40	63	5000	1 : 1	129	86	49	112	45	39	90	B20X17	5006-081
BR60548250106 BL60548250106	60	10-34 ER50	78	5000	1 : 1	147	104	83	118	54	42	106	B25X22	5006-082A

# Radial Tapping Heads-Backwards

## DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	P DIN 5482	CODE NO.
TBR3054821672 TBL3054821672	30	1-10 ER16	30	3000	1 : 1	95	60	44	75.5	31.5	32	69	B15X12	5006-083A
TBR4054822090 TBL4054822090	40	1-13 ER20	35	3000	1 : 1	24	80	50	110	42	34	90	B17X14	5006-084
TBR5054822590 TBL5054822590	50	2-16 ER25	42	3000	1 : 1	129	86	54	112	45	36	90	B20X17	5006-085
TBR60548232106 TBL60548232106	60	2-20 ER32	50	3000	1 : 1	147	104	87	118	54	40	106	B25X22	5006-086A

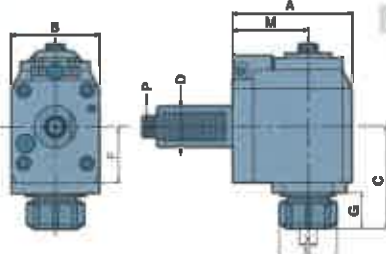


# Radial Drilling And Milling Heads

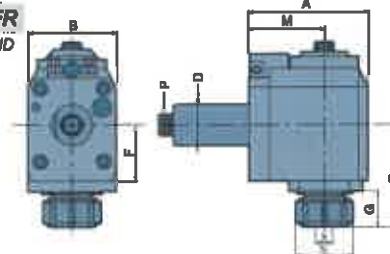
※ ORDER MADE, NOT REFUNDABLE.

## DIN 5482

MODE: FL  
LEFT-HAND



MODE: FR  
RIGHT-HAND



- ◆ To be used for collet DIN 6499
- ◆ Collet is not included
- ◆ External coolant supply

## DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	P DIN 5482	CODE NO.
FR3054822565 FL3054822565	30	1-16 ER25	42	5000	1 : 1	97	64	74.5	41	26	65	B15X12	5006-087
FR3054822585 FL3054822585	30	1-16 ER25	42	5000	1 : 1	117	64	74.5	41	26	85	B15X12	5006-088
FR4054823265 FL4054823265	40	2-20 ER32	50	5000	1 : 1	99	80	71	40	23	65	B17X14	5006-089
FR4054823285 FL4054823285	40	2-20 ER32	50	5000	1 : 1	119	80	71	40	23	85	B17X14	5006-090

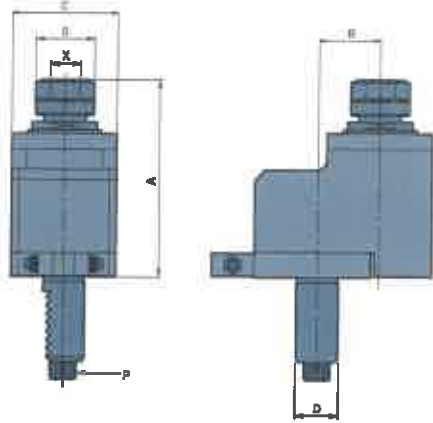
# Radial Tapping Heads

## DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	P DIN 5482	CODE NO.
TFR3054821665 TFL3054821665	30	1-10 ER16	30	3000	1 : 1	97	64	75	41	30	65	B15X12	5006-092
TFR3054821685 TFL3054821685	30	1-10 ER16	30	3000	1 : 1	117	64	75	41	30	85	B15X12	5006-093
TFR4054822065 TFL4054822065	40	1-13 ER20	35	3000	1 : 1	99	80	70	40	25	65	B17X14	5006-094
TFR4054822085 TFL4054822085	40	1-13 ER20	35	3000	1 : 1	119	80	70	40	25	85	B17X14	5006-095

# Axial Drilling And Milling Heads

OFFSET TYPE ※ ORDER MADE, NOT REFUNDABLE. DIN 5482



- To be used for collet DIN 6499
- Collet is not included
- External coolant supply

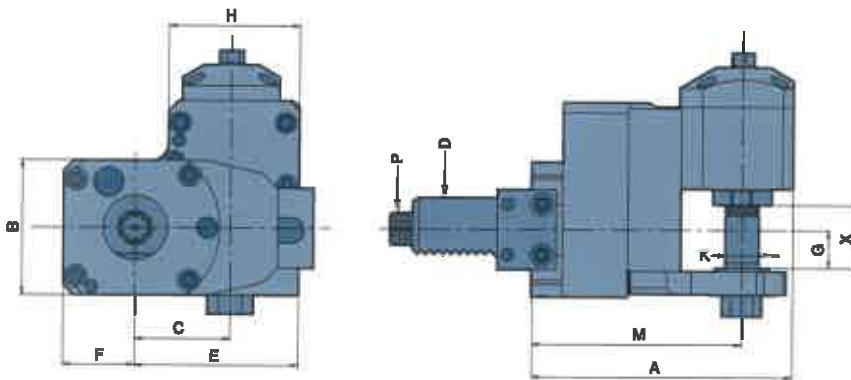
## DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	P DIN 5482	CODE NO.
DA3054822529	30	1-16 ER25	42	4000	1 : 1	100	29	60	B15X12	5006-097
DA3054822529/1	※ 30	1-16 ER25	42	8000	1 : 2	100	29	60	B15X12	5006-098
DA4054823250	40	2-20 ER32	50	4000	1 : 1	125	50	75	B17X14	5006-099
DA5054824065	50	3-26 ER40	63	3000	1 : 1	124	65	86	B20X17	5006-100

## Radial Milling Heads

DISK CUTTER UNITS

DIN 5482



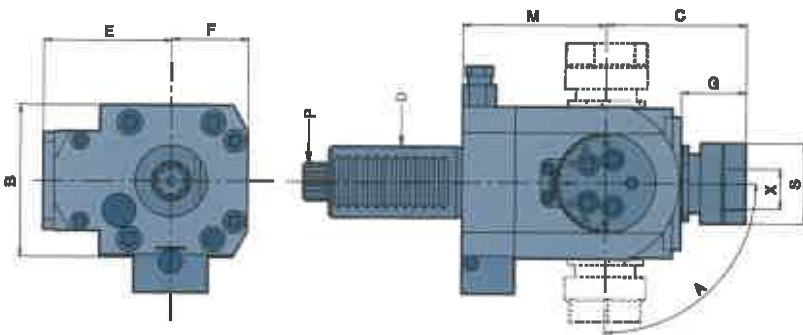
- External coolant supply

## DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	Maximum R.P.M.	i	A	B	C	E	F	G	H	K	M	P DIN 5482	CODE NO.
BR30548216C/3 BL30548216C/3	30	16	3000	3 : 1	133	64	45	77.5	49	5	65	16	107.5	B15X12	5006-101

## Angular Heads

DIN 5482



- To be used for collet DIN 6499
- Collet is not included
- External coolant supply

## DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	P DIN 5482	CODE NO.
DA30548220B	30	1-13 ER20	35	4000	1 : 1	±90°	64	59	54	32	27	67	B15X12	5006-102A

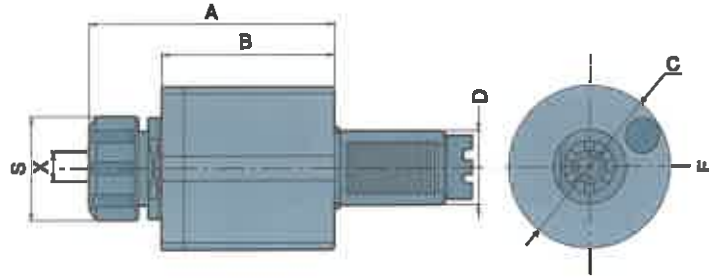


# Axial Drilling And Milling Heads- For "Baruffaldi" Type



SPUR COUPLING-MT TYPE

※ ORDER MADE, NOT REFUNDABLE.



- Power Transmission According To "BARUFFALDI"
- MT: Frontal Transmission Coupling Gear Is Fixed Version

- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

## DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	CODE NO.
DA20MT16	20	1-10 ER16	30	6000	1 : 1	76	48	58	5006-103
DA30MT25	30	1-16 ER25	42	6000	1 : 1	86	55	68	5006-104
DA40MT32	40	2-20 ER32	50	6000	1 : 1	112	55	86	5006-105
DA50MT40	50	3-26 ER40	63	6000	1 : 1	118	81.5	96	5006-106

## Axial Tapping Heads

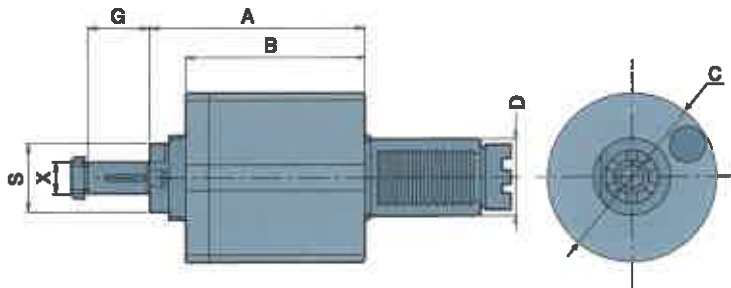
### DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	CODE NO.
TDA30MT16	30	1-10 ER16	30	3000	1 : 1	108	71.5	68	5006-107
TDA40MT20	40	1-13 ER20	35	3000	1 : 1	95.5	55	86	5006-108
TDA50MT25	50	1-16 ER25	42	3000	1 : 1	123	81.5	96	5006-109



## Axial Milling Heads

SPUR COUPLING-MT TYPE



- External coolant and intermediate rings supply
- To be used for cutter arbor according to DIN 6358

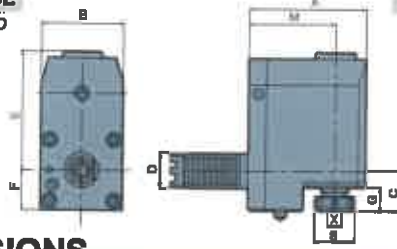
### DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	G	CODE NO.
DA30MT16C	30	16	32	3000	1 : 1	91.5	55	68	27	5006-110
DA40MT16C	40	16	32	3000	1 : 1	68.5	55	86	27	5006-111
DA40MT22C	40	22	32	3000	1 : 1	68.5	55	86	31	5006-112
DA50MT22C	50	22	40	3000	1 : 1	117	81.5	96	31	5006-113
DA50MT27C	50	27	40	3000	1 : 1	117	81.5	96	33	5006-114

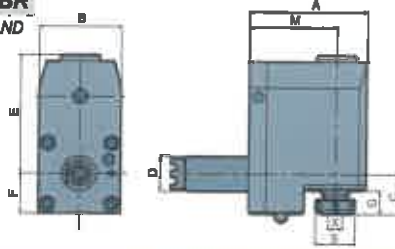
# Radial Drilling And Milling Heads-Backwards

※ ORDER MADE, NOT REFUNDABLE. SPUR COUPLING-MT TYPE

MODE: BL  
LEFT-HAND



MODE: BR  
RIGHT-HAND



- External coolant supply
- To be used for collet DIN 6499
- Collet is not included

## DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	CODE NO.
BR20MT1660 BL20MT1660	20	1-10 ER16	30	5000	1:1	83	50	35	70	27	27	60	5006-115A
BR30MT2572 BL30MT2572	30	1-16 ER25	42	5000	1:1	95	60	42	76	32	29	72	5006-116A
BR40MT3290 BL40MT3290	40	2-20 ER32	50	5000	1:1	124	80	44	110	42	34	90	5006-117
BR50MT4090 BL50MT4090	50	3-26 ER40	63	5000	1:1	129	86	49	112	45	39	90	5006-118

# Radial Tapping Heads-Backwards

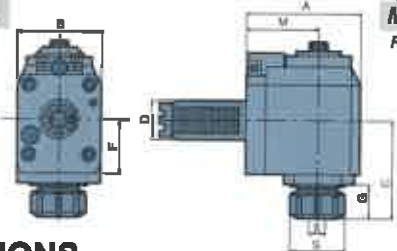
## DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	E	F	G	M	CODE NO.
TBR30MT1672 TBL30MT1672	30	1-10 ER16	30	3000	1:1	95	60	44	76	32	32	72	5006-119A
TBR40MT2090 TBL40MT2090	40	1-13 ER20	35	3000	1:1	124	80	50	110	42	34	90	5006-120
TBR50MT2590 TBL50MT2590	50	1-16 ER25	42	3000	1:1	129	86	54	112	45	36	90	5006-121

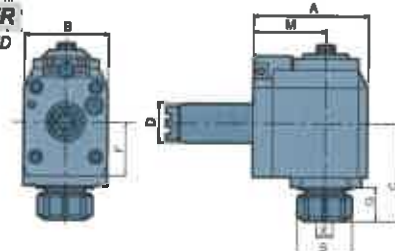
# Radial Drilling And Milling Heads

SPUR COUPLING-MT TYPE

MODE: FL  
LEFT-HAND



MODE: FR  
RIGHT-HAND



- External coolant supply
- To be used for collet DIN 6499
- Collet is not included

## DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	CODE NO.
FR30MT2585 FL30MT2585	30	1-16 ER25	42	5000	1:1	97	64	74.5	41	26	65	5006-122
FR30MT2585 FL30MT2585	30	1-16 ER25	42	5000	1:1	117	64	74.5	41	26	85	5006-123
FR40MT3265 FL40MT3265	40	2-20 ER32	50	5000	1:1	99	80	71	40	23	65	5006-124
FR40MT3285 FL40MT3285	40	2-20 ER32	50	5000	1:1	119	80	71	40	23	85	5006-125
FR40MT32100 FL40MT32100	40	2-20 ER32	50	5000	1:1	134	80	71	40	23	100	5006-126

# Radial Tapping Heads

## DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	F	G	M	CODE NO.
TFR30MT1665 TFL30MT1665	30	1-10 ER16	30	3000	1:1	97	64	75	41	30	65	5006-128
TFR30MT1685 TFL30MT1685	30	1-10 ER16	30	3000	1:1	117	64	75	41	30	85	5006-129
TFR40MT2065 TFL40MT2065	40	1-13 ER20	35	3000	1:1	99	80	70	40	25	65	5006-130
TFR40MT2085 TFL40MT2085	40	1-13 ER20	35	3000	1:1	119	80	70	40	25	85	5006-131
TFR50MT2575 TFL50MT2575	50	1-16 ER25	42	3000	1:1	115	88	103	56	42	75	5006-132

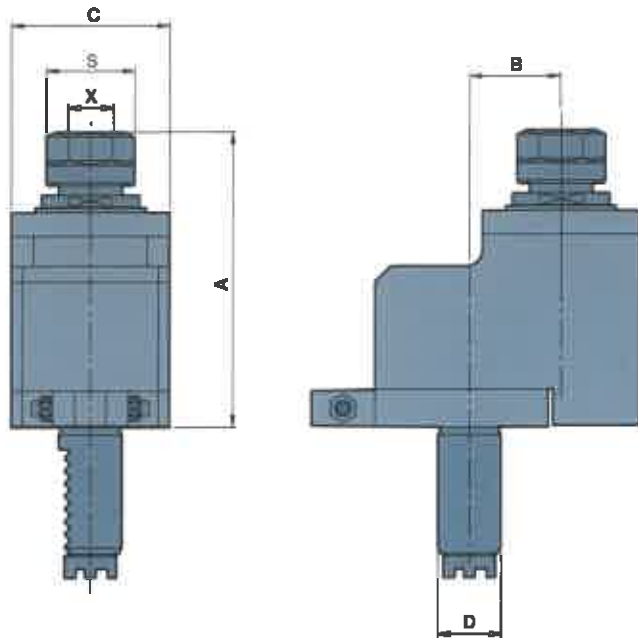


# Axial Drilling And Milling Heads



OFFSET TYPE

SPUR COUPLING-MT TYPE



- Collet is not included
- External coolant supply
- To be used for collet DIN 6499

## DIMENSIONS

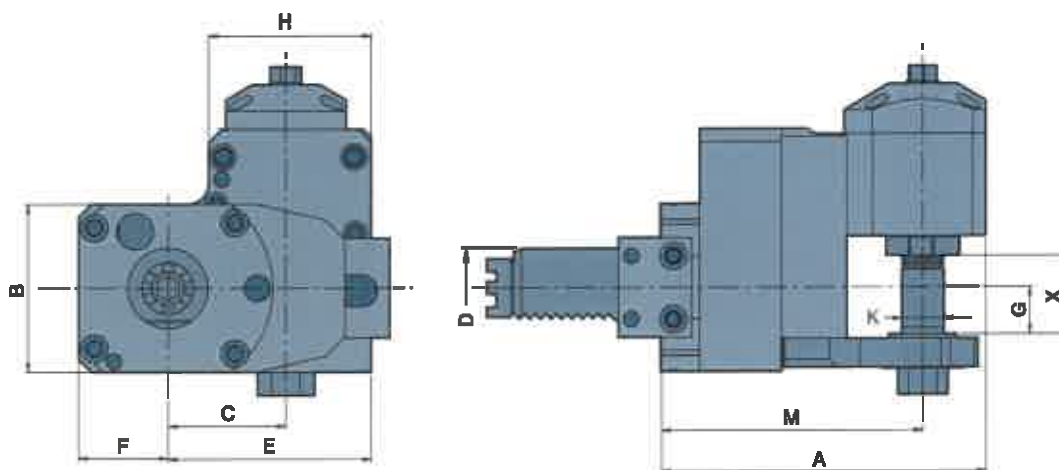
ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	CODE NO.
DA20MT1629	20	1-10 ER16	30	4000	1 : 1	93.5	29	50	5006-133
DA30MT2529	30	1-16 ER25	42	4000	1 : 1	100	29	60	5006-134
DA30MT2529/1	※ 30	2-20 ER32	42	8000	1 : 2	100	29	60	5006-135
DA40MT3250	40	2-20 ER32	50	4000	1 : 1	125	50	75	5006-136
DA50MT4065	50	3-26 ER40	63	3000	1 : 1	124	65	86	5006-137



# Radial Milling Heads

※ ORDER MADE, NOT REFUNDABLE

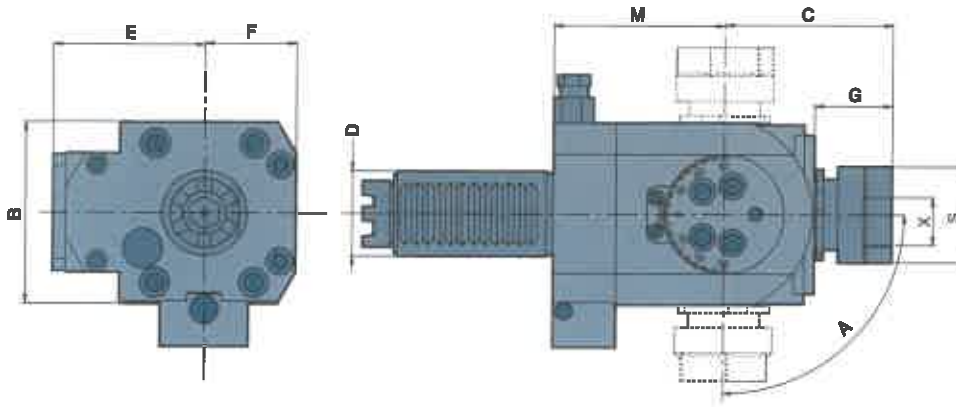
SPUR COUPLING-MT TYPE



- External coolant supply

## DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	Maximum R.P.M.	i	A	B	C	E	F	G	H	K	M	CODE NO.
BR30MT16C/3 BL30MT16C/3	30	16	3000	3 : 1	133	64	45	77.5	49	5	65	16	107.5	5006-138



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

## DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	I	A	B	C	E	F	G	M	CODE NO.
DA30MT20B	30	1-13 ER20	35	4000	1 : 1	±90°	64	59	54	32	27	67	5006-139A

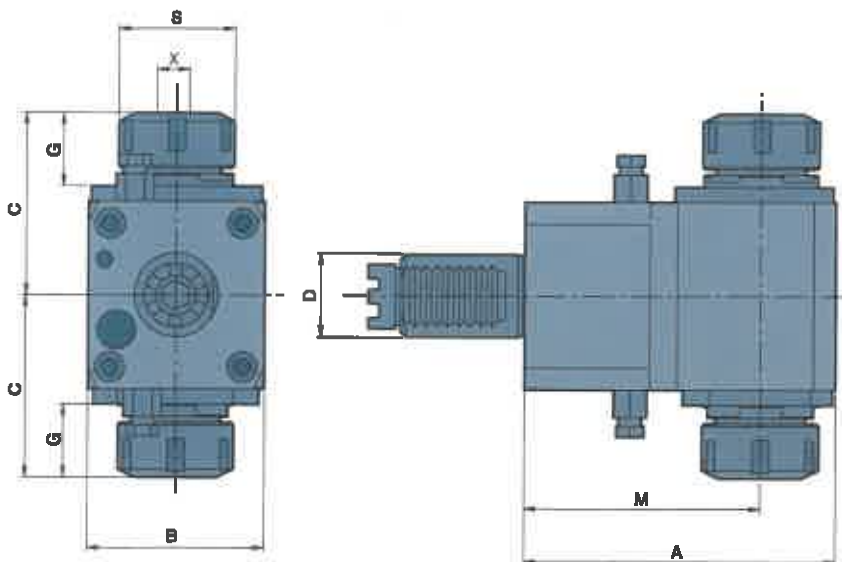
VDI



# Radial Drilling And Milling Heads

**DOUBLE HEAD TYPE**

**SPUR COUPLING-MT TYPE**



- To be used for collet DIN 6499
- External coolant supply
- Collet is not included

## DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	I	A	B	C	G	M	CODE NO.
DF30MT2585D	30	1-16 ER25	42	4000	1 : 1	112	64	66	27	85	5006-140
DF40MT3285D	40	2-20 ER32	50	4000	1 : 1	119	80	82	28	85	5006-141
DF40MT32100D	40	2-20 ER32	50	4000	1 : 1	134	80	82	28	100	5006-142



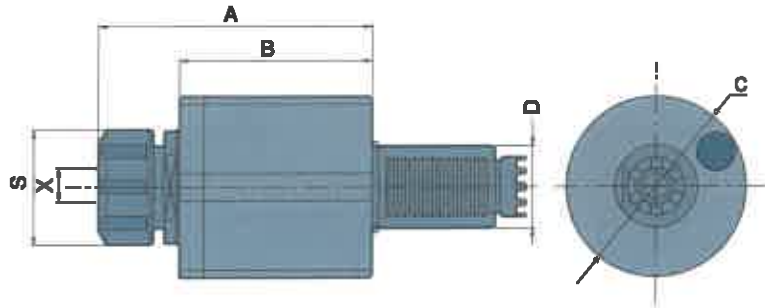
# Axial Drilling And Milling Heads-

**VERTEX®**

## For "Diplomatic" Type

**SPUR COUPLING-IT TYPE**

\* ORDER MADE, NOT REFUNDABLE.



- Power Transmission According To "DIPLOMATIC"
- IT: Fron-side Coupling is Elastic Stroke

- External coolant supply
- To be used for collet DIN 6499
- Collet is not included

### DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	CODE NO.
DA30IT25	30	1-16 ER25	42	6000	1 : 1	86	55	68	5006-143

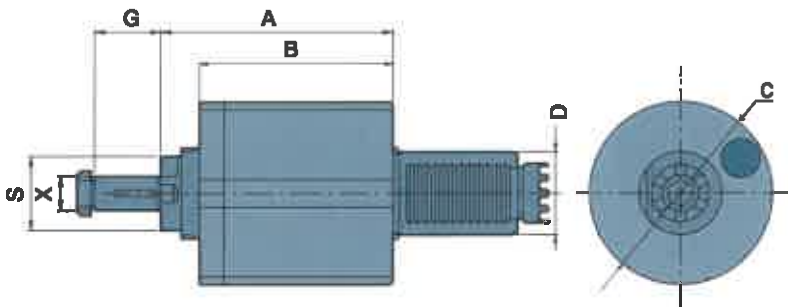
## Axial Tapping Heads

### DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	CODE NO.
TDA30IT16	30	1-10 ER16	30	3000	1 : 1	85	55	68	5006-146
TDA40IT20	40	1-13 ER20	35	3000	1 : 1	102	55	86	5006-147



## Axial Milling Heads

**SPUR COUPLING-IT TYPE**

- To be used for cutter arbor according to DIN 6358
- External coolant and intermediate rings supply

### DIMENSIONS

ORDER NO.	D DIN 69880	X DIN 6358	S	Maximum R.P.M.	i	A	B	C	G	CODE NO.
DA30IT16C	30	16	32	3000	1 : 1	91.5	55	68	27	5006-149
DA40IT16C	40	16	32	3000	1 : 1	68.5	55	86	27	5006-150
DA40IT22C	40	22	32	3000	1 : 1	68.5	55	86	31	5006-151



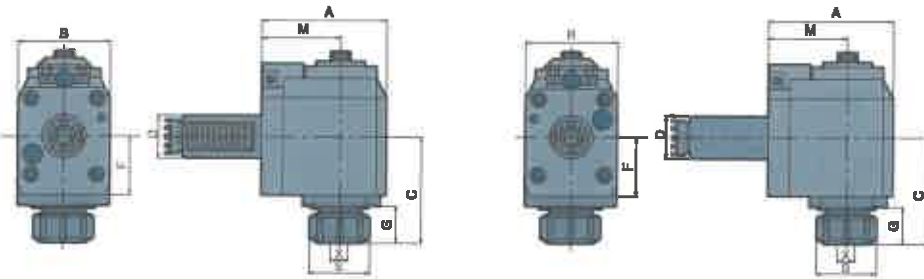
# Radial Drilling And Milling Heads VERTEX®

✪ ORDER MADE, NOT REFUNDABLE. SPUR COUPLING-IT TYPE

MODE: FL  
LEFT-HAND

MODE: FR  
RIGHT-HAND

- External coolant supply
- To be used for collet DIN 6499
- Collet is not included



## DIMENSIONS

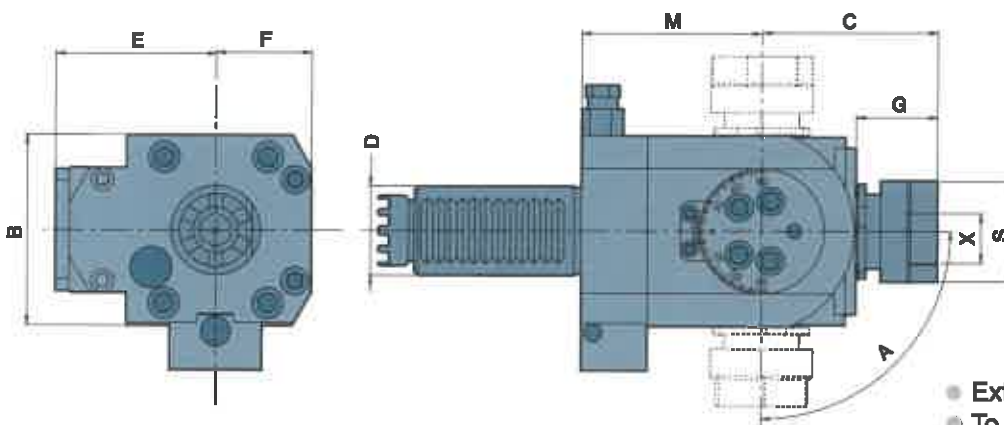
ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	I	A	B	C	F	G	M	CODE NO.
FL30IT2565	30	1-16 ER25	42	5000	1 : 1	97	64	74.5	41	26	65	5006-154
FR30IT2585 FL30IT2585	30	1-16 ER25	42	5000	1 : 1	117	64	74.5	41	26	85	5006-155
FL40IT3265	40	2-20 ER32	50	5000	1 : 1	99	80	71	40	23	65	5006-156
FL40IT32100	40	2-20 ER32	50	5000	1 : 1	134	80	71	40	23	100	5006-158

## Radial Tapping Heads

### DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	I	A	B	C	F	G	M	CODE NO.
TFR30IT1665 TFL30IT1665	30	1-10 ER16	32	3000	1 : 1	97	64	75	41	30	65	5006-160
TFR30IT1685 TFL30IT1685	30	1-10 ER16	32	3000	1 : 1	117	64	75	41	30	85	5006-161
TFR40IT2065	40	1-13 ER20	35	3000	1 : 1	99	80	70	40	25	65	5006-162
TFR40IT2085 TFL40IT2085	40	1-13 ER20	35	3000	1 : 1	119	80	70	40	25	85	5006-163

## Angular Heads



- External coolant supply
- To be used for collet DIN 6499
- Collet is not included

### DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	I	A	B	C	E	F	G	M	CODE NO.
DA30IT20B	30	1-13 ER20	35	4000	1 : 1	±90°	64	59	54	32	27	67	5006-165A

Other shank dimensions under development



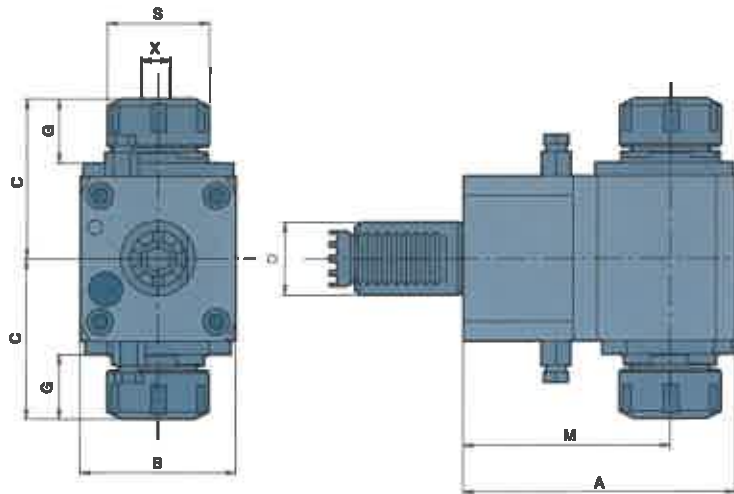
# Radial Drilling And Milling Heads



DOUBLE COLLETS

SPUR COUPLING-IT TYPE

※ ORDER MADE, NOT REFUNDABLE.



- Collet is not included
- External coolant supply
- To be used for collet DIN 6499

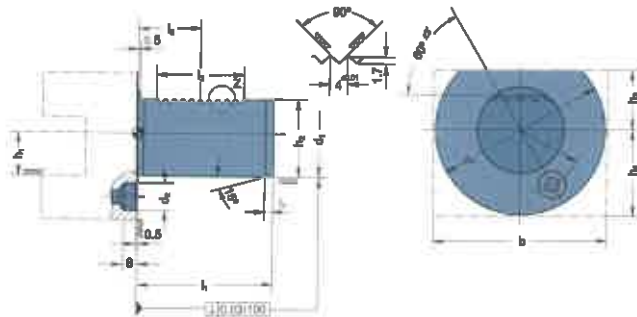
## DIMENSIONS

ORDER NO.	D DIN 69880	X Capacity	S	Maximum R.P.M.	i	A	B	C	G	M	CODE NO.
DF30IT2585D	30	1-16 ER25	42	4000	1 : 1	112	64	66	26.5	85	5006-166
DF40IT3285D	40	2-20 ER32	50	4000	1 : 1	119	80	82	28	85	5006-167
DF40IT32100D	40	2-20 ER32	50	4000	1 : 1	134	80	82	28	100	5006-168

Other shank dimensions under development

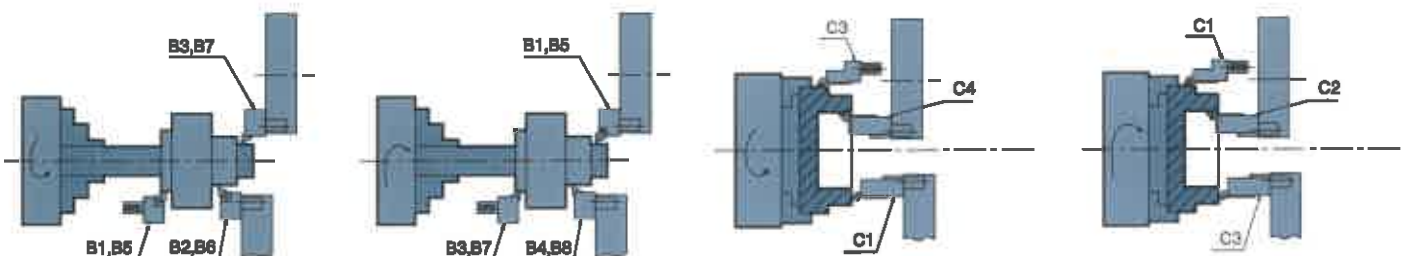


## VDI Dimensional Specification of Shank DIN 69880



## DIMENSIONS

d1 h6	l1 ±0.3	d2	d3	h1 max	h2 ±0.1	l2 ±0.05	l3 min	l4 +1	r4 ±0.02	
20	40	10	H6	50	16	18	21.7	24	2	18
30	55	14	H9	68	20	27	29.7	40	2	25
40	63	14	H9	83	25	36	29.7	40	3	32
50	78	16	H9	98	32	45	35.7	48	3	37
60	94	16	H9	123	32	55	43.7	56	4	48





# Radial Static Holders



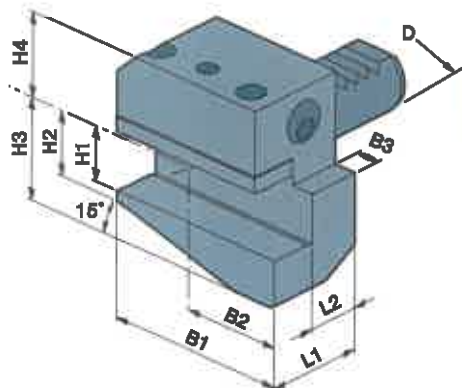
**B1 B2 TYPE**

✳ ORDER MADE, NOT REFUNDABLE.

**DIN 69880**

**B1**

- Short
- External Coolant Supply
- Right-hand

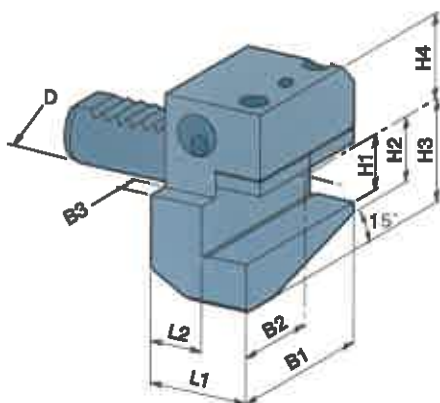


## DIMENSIONS

ORDER NO.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	CODE NO.
B1-20x16	20	55	30	7	16	19	30	25	30	16	5006-180
B1-30x20	30	70	35	10	20	26	38	28	40	22	5006-181
B1-40x25	40	85	42.5	12.5	25	35	48	32.5	44	22	5006-182
B1-50x32	50	100	50	16	32	42	60	35	55	30	5006-183
B1-60x32	60	125	62.5	16	32	46	62.5	42.5	60	30	5006-184

**B2**

- Left-hand
- External Coolant Supply
- Short



## DIMENSIONS

ORDER NO.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	CODE NO.
B2-20x16	20	55	30	7	16	19	30	25	30	16	5006-185
B2-30x20	30	70	35	10	20	26	38	28	40	22	5006-186
B2-40x25	40	85	42.5	12.5	25	35	48	32.5	44	22	5006-187
B2-50x32	50	100	50	16	32	42	60	35	55	30	5006-188
B2-60x32	60	125	62.5	16	32	46	62.5	42.5	60	30	5006-189



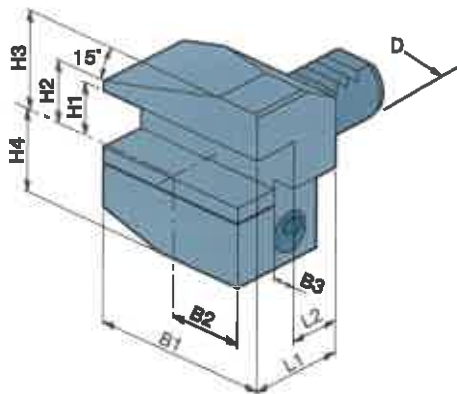
# Radial Static Holders

**B3 B4 TYPE**

**DIN 69880**

**B3**

- Short
- External Coolant Supply
- Right-hand

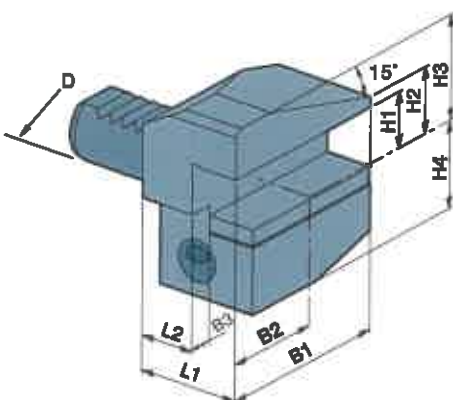


## DIMENSIONS

ORDER NO.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	CODE NO.
B3-20x16	20	55	30	7	16	19	30	25	30	16	5006-190
B3-30x20	30	70	35	10	20	22	38	35	40	22	5006-191
B3-40x25	40	85	42.5	12.5	25	30	48	42.5	44	22	5006-192
B3-50x32	50	100	50	16	32	35	60	50	55	30	5006-193
B3-60x32	60	125	62.5	16	32	42.5	62.5	42.5	60	30	5006-194

**B4**

- Left-hand
- External Coolant Supply
- Short



## DIMENSIONS

ORDER NO.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	CODE NO.
B4-20x16	20	55	30	7	16	19	30	25	30	16	5006-195
B4-30x20	30	70	35	10	20	22	38	35	40	22	5006-196
B4-40x25	40	85	42.5	12.5	25	30	48	42.5	44	22	5006-197
B4-50x32	50	100	50	16	32	35	60	50	55	30	5006-198
B4-60x32	60	125	62.5	16	32	42.5	62.5	42.5	60	30	5006-199

VDI



# Radial Static Holders



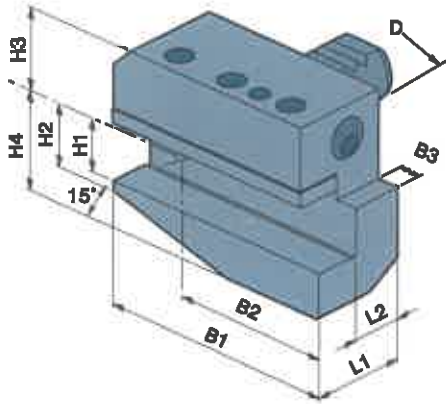
B5 B6 TYPE

※ ORDER MADE, NOT REFUNDABLE.

DIN 69880

## B5

- External Coolant Supply
- Right-hand
- Long

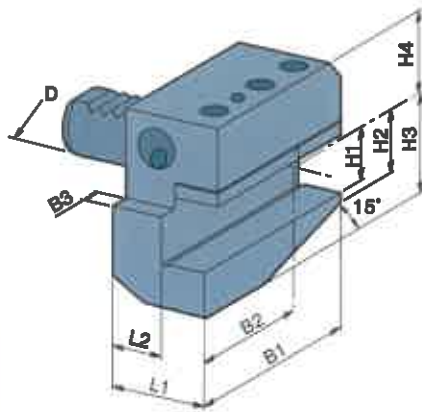


### DIMENSIONS

ORDER NO.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	CODE NO.
B5-20x16	20	75	50	7	16	19	30	25	30	16	5006-200
B5-30x20	30	100	65	10	20	26	38	28	40	22	5006-201
B5-40x25	40	118	76	12.5	25	35	48	32.5	44	22	5006-202
B5-50x32	50	130	80	16	32	42	60	35	55	30	5006-203
B5-60x32	60	145	83	16	32	46	62.5	42.5	60	30	5006-204

## B6

- Left-hand
- External Coolant Supply
- Long



### DIMENSIONS

ORDER NO.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	CODE NO.
B6-20x16	20	75	50	7	16	19	30	25	30	16	5006-205
B6-30x20	30	100	65	10	20	26	38	28	40	22	5006-206
B6-40x25	40	118	76	12.5	25	35	48	32.5	44	22	5006-207
B6-50x32	50	130	80	16	32	42	60	35	55	30	5006-208
B6-60x32	60	145	83	16	32	46	62.5	42.5	60	30	5006-209



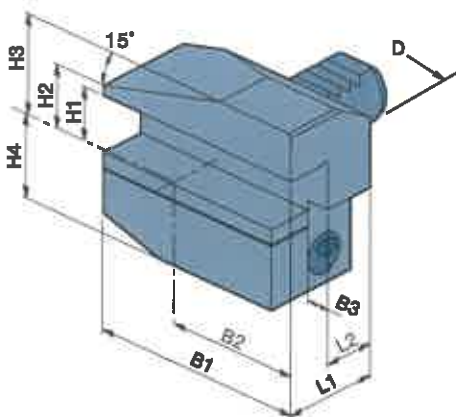
# Radial Static Holders

B7 B8 TYPE

DIN 69880

## B7

- External Coolant Supply
- Right-hand
- Long

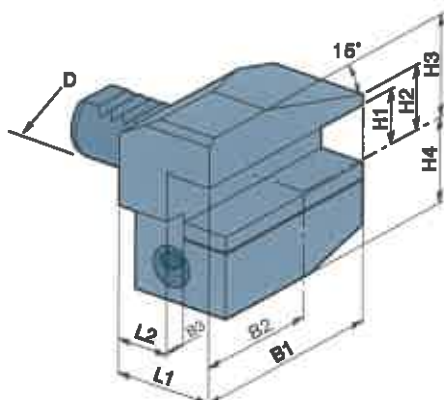


### DIMENSIONS

ORDER NO.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	CODE NO.
B7-20x16	20	75	50	7	16	19	30	25	30	16	5006-210
B7-30x20	30	100	65	10	20	22	38	35	40	22	5006-211
B7-40x25	40	118	75.5	12.5	25	30	48	42.5	44	22	5006-212
B7-50x32	50	130	80	16	32	35	60	50	55	30	5006-213
B7-60x32	60	145	82.5	16	32	42.5	62.5	42.5	60	30	5006-214

## B8

- Left-hand
- External Coolant Supply
- Long



### DIMENSIONS

ORDER NO.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	CODE NO.
B8-20x16	20	75	50	7	16	19	30	25	30	16	5006-215
B8-30x20	30	100	65	10	20	22	38	35	40	22	5006-216
B8-40x25	40	118	75.5	12.5	25	30	48	42.5	44	22	5006-217
B8-50x32	50	130	80	16	32	35	60	50	55	30	5006-218
B8-60x32	60	145	82.5	16	32	42.5	62.5	42.5	60	30	5006-219

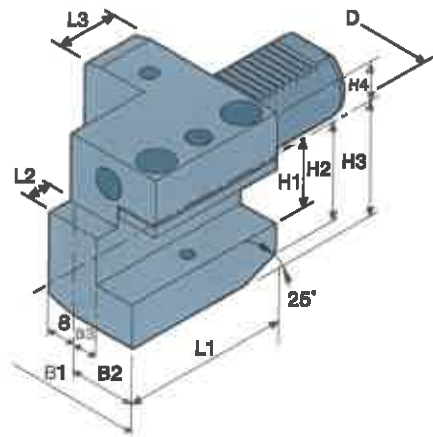
# Axial Static Holders



C1 C2 TYPE

※ ORDER MADE, NOT REFUNDABLE.

DIN 69880

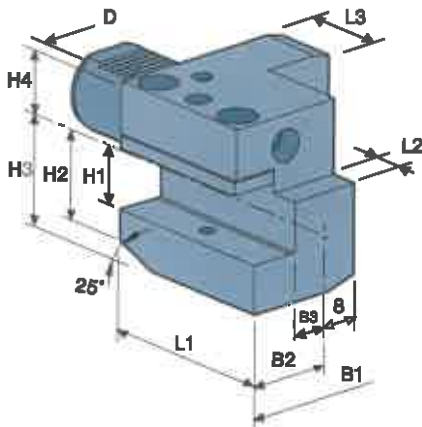


**C1**

- Right-hand
- External Coolant Supply

## DIMENSIONS

ORDER NO.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	L3	CODE NO.
C1-20x16	20	65	40	26	16	23	30	25	50	7	30	5006-220
C1-30x20	30	70	35	17	20	28	38	28	70	10	30	5006-221
C1-40x25	40	85	42.5	21	25	-	48	32.5	85	12.5	30	5006-222
C1-50x32	50	100	50	26	32	-	60	35	100	16	40	5006-223
C1-60x32	60	125	62.5	33	32	-	62.5	42.5	125	16	40	5006-224



**C2**

- External Coolant Supply
- Left-hand

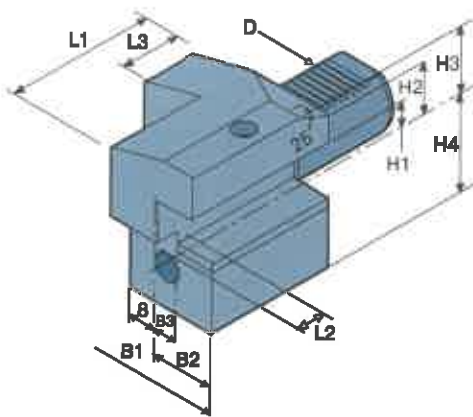
## DIMENSIONS

ORDER NO.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	L3	CODE NO.
C2-20x16	20	65	40	26	16	23	30	25	50	7	30	5006-225
C2-30x20	30	76	41	23	20	28	38	28	70	10	30	5006-226
C2-40x25	40	90	47.5	25.5	25	-	48	32.5	85	12.5	30	5006-227
C2-50x32	50	105	55	30.5	32	-	60	35	100	16	40	5006-228
C2-60x32	60	125	62.5	33	32	-	62.5	42.5	125	16	40	5006-229

# Axial Static Holders

C3 C4 TYPE

DIN 69880

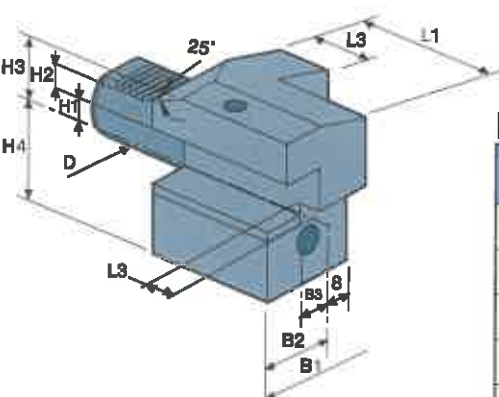


**C3**

- Right-hand
- External Coolant Supply

## DIMENSIONS

ORDER NO.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	L3	CODE NO.
C3-20x16	20	65	40	26	16	23	30	25	50	7	30	5006-230
C3-30x20	30	70	35	17	20	28	38	35	70	10	30	5006-231
C3-40x25	40	85	42.5	21	25	-	48	42.5	85	12.5	30	5006-232
C3-50x32	50	100	50	26	32	-	60	50	100	16	40	5006-233
C3-60x32	60	125	62.5	33	32	-	62.5	62.5	125	16	40	5006-234



**C4**

- External Coolant Supply
- Left-hand

## DIMENSIONS

ORDER NO.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	L3	CODE NO.
C4-20x16	20	65	40	26	16	23	30	25	50	7	30	5006-235
C4-30x20	30	76	41	23	20	28	38	35	70	10	30	5006-236
C4-40x25	40	90	47.5	25.5	25	-	48	42.5	85	12.5	30	5006-237
C4-50x32	50	105	55	30.5	32	-	60	50	100	16	40	5006-238
C4-60x32	60	125	62.5	33	32	-	62.5	62.5	125	16	40	5006-239



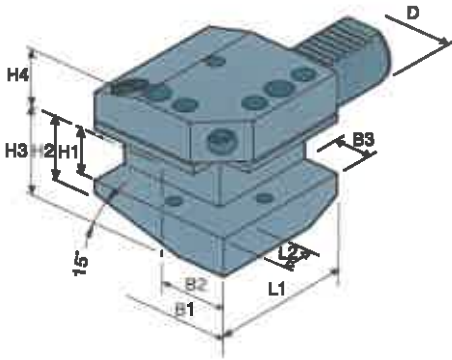
# Combined Static Holders



CB1 CB2 TYPE ※ ORDER MADE, NOT REFUNDABLE. DIN 69880

## CB1

- External Coolant Supply
- Right-hand

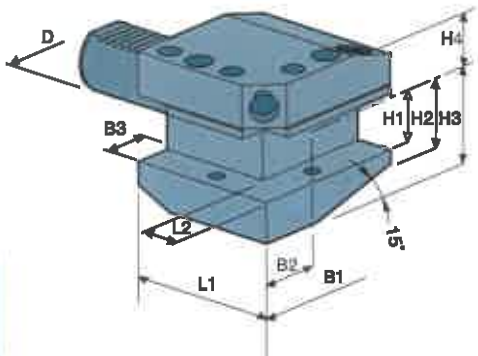


### DIMENSIONS

ORDER NO.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	CODE NO.
CB1-20x16	20	65	40	14	16	19	30	25	50	14	5006-240
CB1-30x20	30	74	40	18	20	26	38	28	70	18	5006-241
CB1-40x25	40	85	45	22	25	35	48	32.5	100	22	5006-242
CB1-50x32	50	105	55	25	32	42	60	35	120	25	5006-243
CB1-60x32	60	125	62.5	30	32	46	62.5	42.5	135	30	5006-244

## CB2

- Left-hand
- External Coolant Supply



### DIMENSIONS

ORDER NO.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	CODE NO.
CB2-20x16	20	65	40	14	16	19	30	25	50	14	5006-245
CB2-30x20	30	74	40	18	20	26	38	28	70	18	5006-246
CB2-40x25	40	85	47	22	25	35	48	32.5	100	22	5006-247
CB2-50x32	50	105	55	25	32	42	60	35	120	25	5006-248
CB2-60x32	60	125	62.5	30	32	46	62.5	42.5	135	30	5006-249



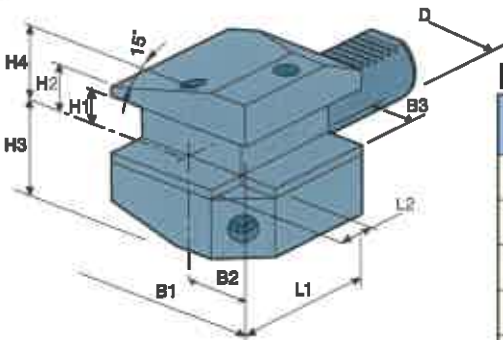
# Combined Static Holders

CB3 CB4 TYPE

DIN 69880

## CB3

- External Coolant Supply
- Right-hand

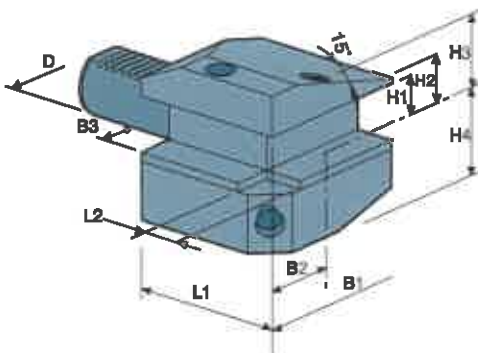


### DIMENSIONS

ORDER NO.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	CODE NO.
CB3-20x16	20	65	40	14	16	19	25	30	50	14	5006-250
CB3-30x20	30	74	40	18	20	22	38	28	70	18	5006-251
CB3-40x25	40	85	45	22	25	30	48	32.5	100	22	5006-252
CB3-50x32	50	105	55	25	32	35	50	60	120	25	5006-253
CB3-60x32	60	125	62.5	30	32	42.5	62.5	62.5	135	30	5006-254

## CB4

- Left-hand
- External Coolant Supply



### DIMENSIONS

ORDER NO.	D	B1	B2	B3	H1	H2	H3	H4	L1	L2	CODE NO.
CB4-20x16	20	65	40	14	16	19	30	25	50	14	5006-255
CB4-30x20	30	74	40	18	20	22	28	38	70	18	5006-256
CB4-40x25	40	85	47	22	25	30	32.5	48	100	22	5006-257
CB4-50x32	50	105	55	25	32	35	60	50	120	25	5006-258
CB4-60x32	60	125	62.5	30	32	42.5	62.5	62.5	135	30	5006-259



# Combined Static Holders



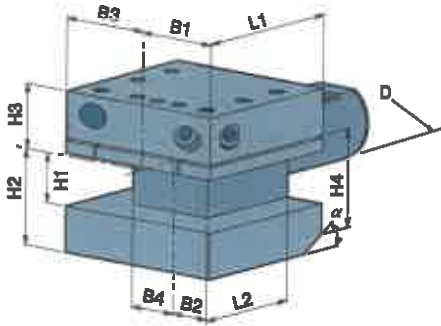
D1 D2 TYPE

※ ORDER MADE, NOT REFUNDABLE.

DIN 69880

## D1

- Right-hand
- External Coolant Supply

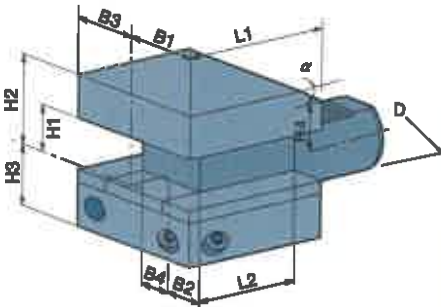


### DIMENSIONS

ORDER NO.	D	B1	B2	B3	B4	H1	H2	H3	H4	L1	L2	α	CODE NO.
D1-30x20	30	35	17	41	23	20	38	35	30	60	42	25°	5006-260
D1-40x25	40	42.5	21	47.5	25.5	25	48	42.5	40	72	50	25°	5006-261
D1-50x32	50	50	26	55	30.5	32	60	50	-	85	60	-	5006-262
D1-60x32	60	57.5	33	57.5	33	32	62.5	62.5	-	110	85	-	5006-263

## D2

- Left-hand
- External Coolant Supply



### DIMENSIONS

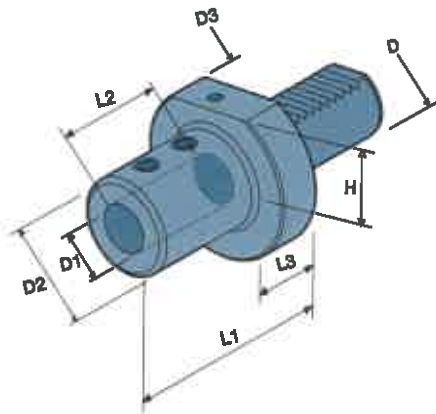
ORDER NO.	D	B1	B2	B3	B4	H1	H2	H3	H4	L1	L2	α	CODE NO.
D2-30x20	30	35	17	41	23	20	38	35	30	60	42	25°	5006-264
D2-40x25	40	42.5	21	47.5	25.5	25	48	42.5	40	72	50	25°	5006-265
D2-50x32	50	50	26	55	30.5	32	60	50	-	85	60	-	5006-266
D2-60x32	60	57.5	33	57.5	33	32	62.5	62.5	-	110	85	-	5006-267



# Static Holders

E1 TYPE

DIN 69880



## E1

- Internal Coolant Supply
- U Drills

### DIMENSIONS

ORDER NO.	D	D1	D2	D3	H	L1	L2	L3	CODE NO.
E1-20x20	20	20	40	50	-	67	57	18	5006-288
E1-20x25	20	25	45	50	-	71	59	18	5006-269
E1-30x20	30	20	40	68	28	67	54	22	5006-270
E1-30x25	30	25	45	68	28	71	59	22	5006-271
E1-30x32	30	32	52	68	28	75	63	22	5006-272
E1-40x20	40	20	40	83	32.5	67	54	22	5006-273
E1-40x25	40	25	45	83	32.5	75	59	22	5006-274
E1-40x32	40	32	52	83	32.5	75	63	22	5006-275
E1-40x40	40	40	60	83	32.5	90	73	22	5006-276
E1-50x20	50	20	40	98	35	67	54	30	5006-277
E1-50x25	50	25	45	98	35	80	59	30	5006-278
E1-50x32	50	32	52	98	35	80	63	30	5006-279
E1-50x40	50	40	60	98	35	90	73	30	5006-280
E1-50x50	50	50	70	98	35	100	83	30	5006-281

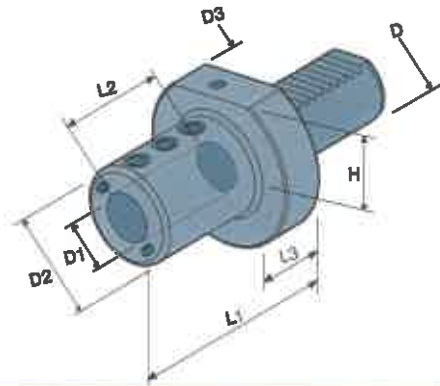


# Static Holders



E2 TYPE

※ ORDER MADE, NOT REFUNDABLE. DIN 69880



**E2**

- Boring Bar Holder
- External Coolant Supply

## DIMENSIONS

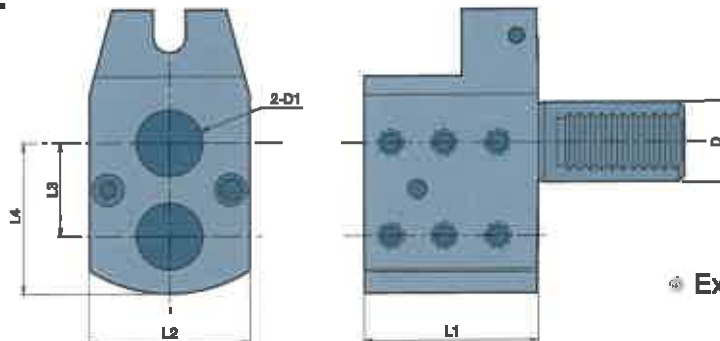
ORDER NO.	D	D1	D2	D3	H	L1	L2	L3	CODE NO.
E2-20x8	20	8	40	50	-	50	41	18	5006-282
E2-20x10	20	10	40	50	-	50	41	18	5006-283
E2-20x12	20	12	40	50	-	50	41	18	5006-284
E2-20x16	20	16	40	50	-	50	41	18	5006-285
E2-20x20	20	20	50	50	-	50	41	-	5006-286
E2-20x25	20	25	50	50	-	60	41	-	5006-287
E2-30x8	30	8	50	68	28	60	51	22	5006-288
E2-30x10	30	10	50	68	28	60	51	22	5006-289
E2-30x12	30	12	50	68	28	60	51	22	5006-290
E2-30x16	30	16	55	68	28	60	51	22	5006-291
E2-30x20	30	20	58	68	28	60	51	22	5006-292
E2-30x25	30	25	62	68	28	60	51	22	5006-293
E2-30x32	30	32	68	68	28	75	61	-	5006-294
E2-40x10	40	10	50	83	32.5	75	61	22	5006-295
E2-40x12	40	12	50	83	32.5	75	61	22	5006-296
E2-40x16	40	16	56	83	32.5	75	61	22	5006-297
E2-40x20	40	20	56	83	32.5	75	61	22	5006-298
E2-40x25	40	25	62	83	32.5	75	61	22	5006-299
E2-40x32	40	32	72	83	32.5	75	61	22	5006-300
E2-40x40	40	40	83	83	32.5	85	76	-	5006-301
E2-50x10	50	10	50	98	35	90	76	30	5006-302
E2-50x12	50	12	56	98	35	90	76	30	5006-303
E2-50x16	50	16	56	98	35	90	76	30	5006-304
E2-50x20	50	20	62	98	35	90	76	30	5006-305
E2-50x25	50	25	72	98	35	90	76	30	5006-306
E2-50x32	50	32	72	98	35	90	76	30	5006-307
E2-50x40	50	40	80	98	35	90	76	30	5006-308
E2-50x50	50	50	90	98	35	95	86	30	5006-309
E2-60x10	60	10	68	123	42.5	90	76	35	5006-310
E2-60x12	60	12	68	123	42.5	90	76	35	5006-311
E2-60x16	60	16	68	123	42.5	90	76	35	5006-312
E2-60x20	60	20	68	123	42.5	90	76	35	5006-313
E2-60x25	60	25	68	123	42.5	90	76	35	5006-314
E2-60x32	60	32	68	123	42.5	90	76	35	5006-315
E2-60x40	60	40	98	123	42.5	90	76	35	5006-316
E2-60x50	60	50	98	123	42.5	95	86	35	5006-317



# Static Holders

E2-X2 TYPE

DIN 69880



- External, internal coolant supply

## DIMENSIONS

ORDER NO.	D DIN 69880	D1	L1	L2	L3	L4	CODE NO.
E2-30-2X25-35	30	25	65	60	35	56.5	5006-318
E2-40-2X40-65	40	40	85	80	65	91.5	5006-319



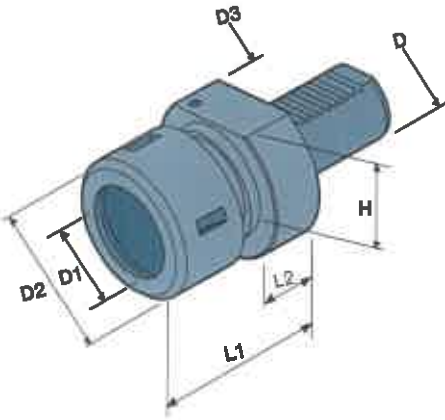
E3 E4 TYPE

※ ORDER MADE, NOT REFUNDABLE.

DIN 69880

## E3

- For Collet DIN 6388
- External Coolant Supply

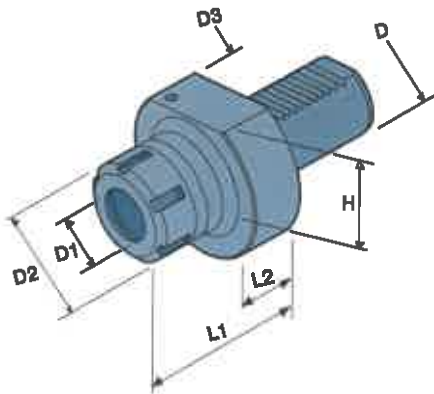


### DIMENSIONS

ORDER NO.	D	D1	D2	D3	H	L1	L2	CODE NO.
E3-30-OZ25	30	2-25	60	68	28	75	22	5006-320
E3-40-OZ25	40	2-25	60	83	32.5	75	22	5006-321
E3-40-OZ32	40	4-32	78	83	32.5	90	22	5006-322
E3-50-OZ25	50	2-25	60	98	35	75	30	5006-323
E3-50-OZ32	50	4-32	78	98	35	90	30	5006-324

## E4

- External Coolant Supply
- For Collet DIN 6499



### DIMENSIONS

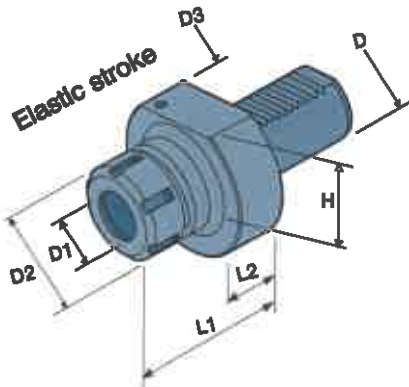
ORDER NO.	D	D1	D2	D3	H	L1	L2	CODE NO.
E4-20-ER25	20	1-16	42	50	-	50	18	5006-325
E4-30-ER25	30	1-16	42	68	28	53	22	5006-326
E4-30-ER32	30	2-20	50	68	28	57	22	5006-327
E4-40-ER32	40	2-20	50	83	32.5	62	22	5006-328
E4-40-ER40	40	3-26	63	83	32.5	75	22	5006-329
E4-50-ER40	50	3-26	63	98	35	75	30	5006-330
E4-60-ER40	60	3-26	63	123	42.5	75	30	5006-331
E4-60-ER50	60	10-34	78	123	42.5	75	30	5006-332

TAPPER, CHUCK TYPE

DIN 69880

## TAPPER

- External Coolant Supply
- For Collet DIN 6499

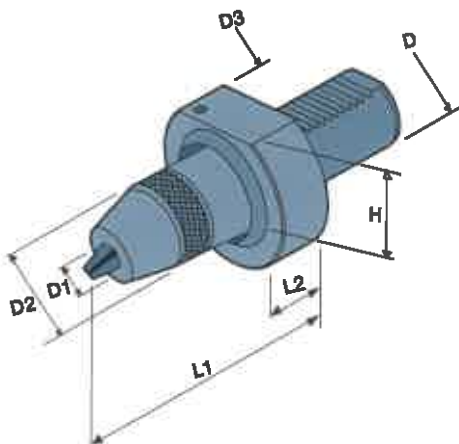


### DIMENSIONS

ORDER NO.	D	D1	D2	D3	H	L1	L2	CODE NO.
TAP-20-ER20	20	1-13	34	50	-	60	18	5006-333
TAP-30-ER25	30	1-16	42	68	28	68	22	5006-334
TAP-40-ER25	40	1-16	42	83	32.5	73	22	5006-335
TAP-50-ER32	50	2-20	50	98	35	83	30	5006-336
TAP-60-ER32	60	2-20	50	123	42.5	85	30	5006-337

## KEYLESS DRILL CHUCK

- External Coolant Supply



### DIMENSIONS

ORDER NO.	D	D1	D2	D3	H	L1	L2	CODE NO.
CHUCK-30-13	30	1-13	51	68	28	85	22	5006-338
CHUCK-40-13	40	1-13	51	83	32.5	85	22	5006-339
CHUCK-40-16	40	3-16	58	83	32.5	90	22	5006-340
CHUCK-50-13	50	1-13	51	98	35	85	30	5006-341
CHUCK-50-16	50	3-16	58	98	35	90	30	5006-342

VDI

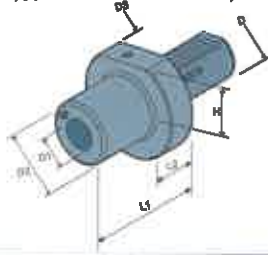


# Static Holders



F TYPE

※ ORDER MADE, NOT REFUNDABLE. DIN 69880



- Tool holders with morse taper according DIN 228
- External Coolant Supply

## DIMENSIONS

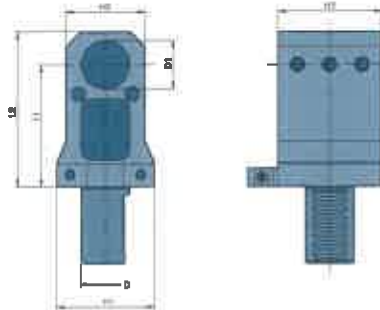
ORDER NO.	D	D1	D2	D3	H	L1	L2	CODE NO.
F20-MT1	20	MT1	-	50	-	23	-	5006-343
F30-MT1	30	MT1	52	68	28	27	22	5006-344
F30-MT2	30	MT2	58	68	28	43	22	5006-345
F30-MT3	30	MT3	64	68	28	66	22	5006-346
F40-MT2	40	MT2	66	83	32.5	43	22	5006-347
F40-MT3	40	MT3	72	83	32.5	58	22	5006-348
F40-MT4	40	MT4	72	83	32.5	78	22	5006-349
F50-MT2	50	MT2	55	98	35	36	30	5006-350
F50-MT3	50	MT3	60	98	35	44	30	5006-351
F50-MT4	50	MT4	70	98	35	71	30	5006-352
F60-MT3	60	MT3	58	123	42.5	36	30	5006-353
F60-MT4	60	MT4	68	123	42.5	50	30	5006-354



# Axial Static Holders

T1 TYPE

DIN 69880



- External, internal coolant supply

## DIMENSIONS

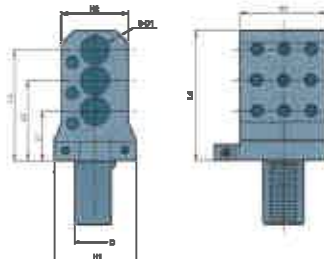
ORDER NO.	D	D1	H1	H2	H3	L1	L2	CODE NO.
T1-30-32-65	30	32	65	52	62	65	90	5006-355
T1-30-32-85	30	32	65	52	62	85	108	5006-356
T1-30-32-100	30	32	65	52	62	100	123	5006-357
T1-30-32-120	30	32	65	52	62	120	143	5006-358
T1-40-32-85	40	32	80	65	85	85	112	5006-359
T1-40-40-85	40	40	80	65	85	85	112	5006-360
T1-40-40-100	40	40	80	65	85	100	127	5006-361



# Axial Static Holders

T1-X3 TYPE

DIN 69880



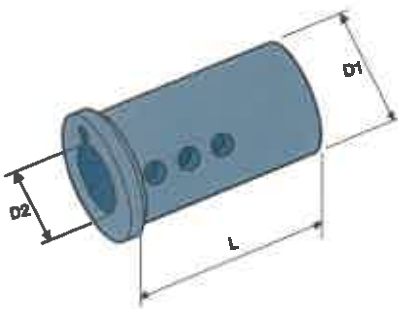
- External coolant supply

## DIMENSIONS

ORDER NO.	D	D1	H1	H2	H3	L1	L2	L3	L4	CODE NO.
T1-30-3X25	30	25	65	65	62	42	85	128	148	5006-362

## RS-W

- External Coolant Supply
- For Boring Bar Holder

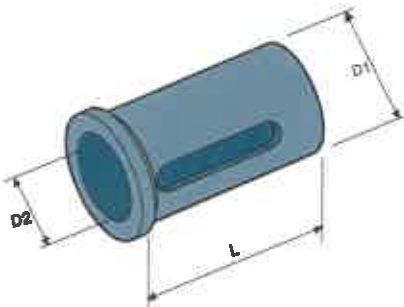


### DIMENSIONS

D1	L	ORDER NO. D2	CODE NO.
20	45	E20-6	5006-369
		E20-8	5006-370
		E20-10	5006-371
25	55	E25-6	5006-372
		E25-8	5006-373
		E25-10	5006-374
32	60	E25-12	5006-375
		E32-6	5006-376
		E32-8	5006-377
40	75	E32-10	5006-378
		E32-12	5006-379
		E40-6	5006-381
50	85	E40-8	5006-382
		E40-10	5006-383
		E40-12	5006-384
		E50-8	5006-388
		E50-10	5006-389
		E50-12	5006-390
		E50-16	5006-391
		E50-20	5006-392
		E50-25	5006-393

## RS

- For Boring Bar Holder



### DIMENSIONS

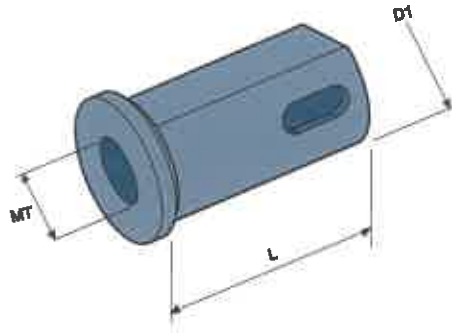
D1	L	ORDER NO. D2	CODE NO.
20	50	E20-12-K	5006-399
		E20-16-K	5006-400
25	50	E25-16-K	5006-401A
		E25-20-K	5006-401
32	60	E32-16-K	5006-402A
		E32-20-K	5006-402B
		E32-25-K	5006-402
40	75	E40-16-K	5006-403A
		E40-20-K	5006-403B
		E40-25-K	5006-403C
		E40-32-K	5006-403
50	85	E50-32-K	5006-404A
		E50-40-K	5006-404

VDI



# Reducing Sleeves

RS-MT, TE TYPE ✖ ORDER MADE, NOT REFUNDABLE.

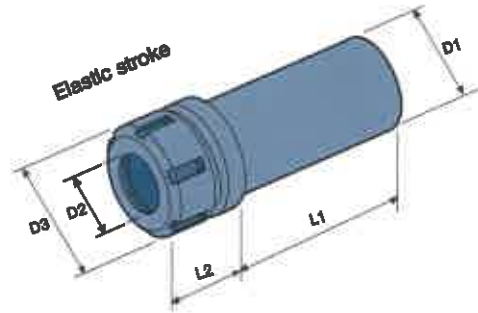


**RS-MT**

- Tool holders with morse taper according to DIN 228

## DIMENSIONS

D1	L	MT				ORDER NO.
		1	2	3	4	
32	60	E32-MT1	E32-MT2	E32-MT3		CODE NO.
		5006-410	5006-411	5006-412		
40	70	E40-MT1	E40-MT2	E40-MT3	E40-MT4	ORDER NO.
		5006-414	5006-415	5006-416	5006-417	CODE NO.
50	85	E50-MT1	E50-MT2	E50-MT3	E50-MT4	ORDER NO.
		5006-418	5006-419	5006-420	5006-421	CODE NO.



**TE**

- Auto taper with cylindric shaft
- To be used for collet DIN 6499

## DIMENSIONS

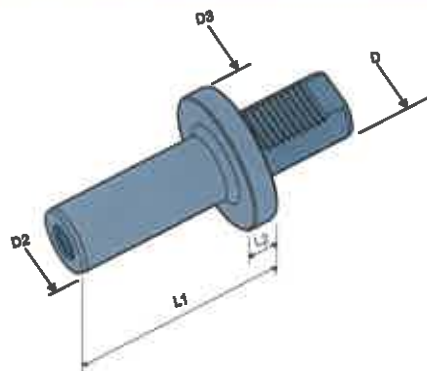
ORDER NO.	D1	D2	D3	L1	L2	CODE NO.
TE25-ER16	25	1-10	M3-M12	ER16 32	70.5	5006-430
TE32-ER20	32	2-13	M3-M16	ER20 35	65	5006-431
TE40-ER25	40	2-16	M4-M20	ER25 42	75	5006-432
TE50-ER32	50	3-20	M6-M24	ER32 50	85	5006-433



# Test Mandrel

TB1 TYPE

DIN 69880



## DIMENSIONS

ORDER NO.	D DIN 69880	D2	D3	L1	L2	CODE NO.
TB1-30	30	30	68	115	15	5006-434
TB1-40	40	40	83	115	15	5006-435
TB1-50	50	50	98	115	15	5006-436



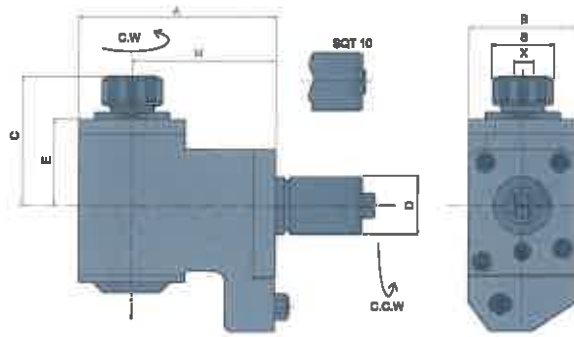
# H Type Milling & Drilling Head



MAZAK SUPER QUICK TURN TYPE

FOR 1ST SPINDLE

NEW



- External coolant supply
- Collet is not included
- To be used for collet DIN 6499

## DIMENSIONS

ORDER NO.	Machine Type	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	M	CODE NO.
SQT 10-HMD25	SQT10M-12D 15M-16D SQT200M-16D 250M-16D	40	1-16 ER25	42	5000	137	75	90	60	100	5006-440
SQT 15/18-HMD25	SQT15M-12D 18M-12D SQT200M-12D 250M-12D	40	1-16 ER25	42	5000	167	80	90	60	130	5006-441
SQT 15/18-HMD32			2-20 ER32	50	5000	167	80	92	60	130	5006-442

## H Type Tapping Head

DIMENSIONS ※ ORDER MADE, NOT REFUNDABLE.

ORDER NO.	Machine Type	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	M	CODE NO.
SQT 10-HT16	SQT10M-12D 15M-16D SQT200M-16D 250M-16D	40	1-10 ER16	30	3000	137	75	106	60	100	5006-443
SQT 15/18-HT20	SQT15M-12D 18M-12D SQT200M-12D 250M-12D	40	1-13 ER20	35	3000	167	80	108	60	130	5006-444

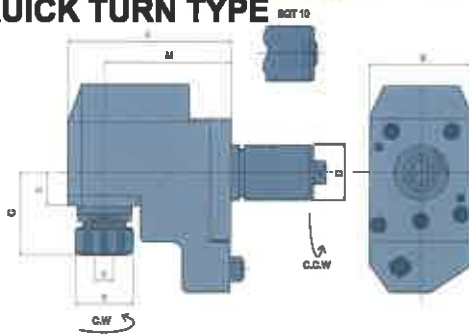


# H Type Back Milling & Drilling Head

MAZAK SUPER QUICK TURN TYPE

FOR 2ND SPINDLE

NEW



- External coolant supply
- Collet is not included
- To be used for collet DIN 6499

## DIMENSIONS

ORDER NO.	Machine Type	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	M	CODE NO.
SQT 10-HBMD25	SQT10M-12D 15M-16D SQT200M-16D 250M-16D	40	1-16 ER25	42	5000	119	75	78	24.5	92	5006-450
SQT 15/18-HBMD25	SQT15M-12D 18M-12D SQT200M-12D 250M-12D	40	1-16 ER25	42	5000	162	80	80	22.5	125	5006-451
SQT 15/18-HBMD32			2-20 ER32	50	5000	162	80	58	22.5	125	5006-452
SQT 15/18-HBMD32-1			2-20 ER32	50	5000	162	80	82.5	22.5	125	5006-453

## H Type Tapping Head

## DIMENSIONS

ORDER NO.	Machine Type	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	M	CODE NO.
SQT 10-HBT16	SQT10M-12D 15M-16D SQT200M-16D 250M-16D	40	1-10 ER16	30	3000	119	75	66	24.5	92	5006-454
SQT 15/18-HBT20	SQT15M-12D 18M-12D SQT200M-12D 250M-12D	40	1-13 ER20	30	3000	162	80	65	22.5	125	5006-455

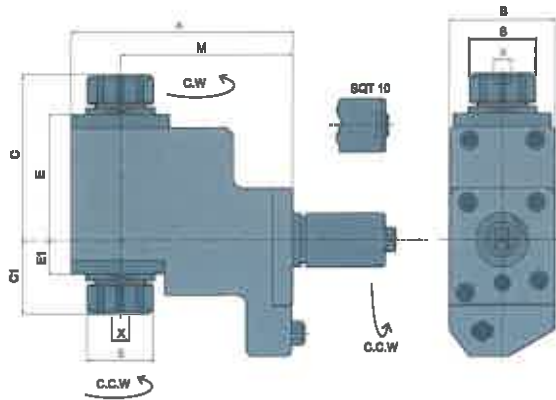


# H Type Milling & Drilling Head



MAZAK SUPER QUICK TURN TYPE FOR 1ST AND 2ND SPINDLE

NEW



- External coolant supply
- Collet is not included
- To be used for collet DIN 6499

## DIMENSIONS

ORDER NO.	Machine Type	D	X Capacity	S	Maximum R.P.M.	A	B	C	C1	E	E1	M	CODE NO.
SQT 10-HMD2025	SQT10M-12D 15M-16D SQT200M-16D 250M-16D	40	1st-ER25 2nd-ER20	42 35	4000	130	75	103	77.5	37	16	100	5006-456
SQT 15/18-HMD232	SQT15M-12D 18M-12D SQT200M-12D 250M-12D	40	2-20 ER32	42	4000	167	80	119	50	89	19	130	5006-457

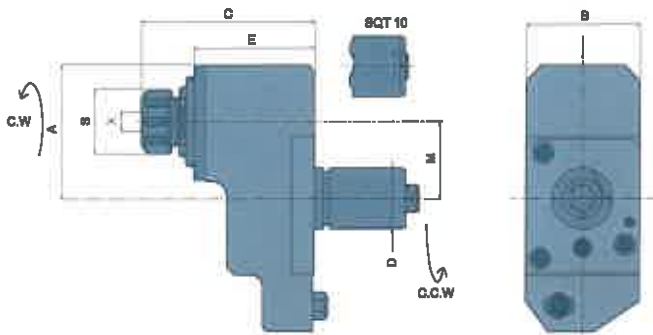


# V Type Milling & Drilling Head

MAZAK SUPER QUICK TURN TYPE

※ ORDER MADE, NOT REFUNDABLE. OFFSET

NEW



- External coolant supply
- Collet is not included
- To be used for collet DIN 6499

## DIMENSIONS

※ 1:2 Speed boost

ORDER NO.	Machine Type	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	M	CODE NO.
SQT 10-VMD25	SQT10M-12D 15M-16D SQT200M-16D 250M-16D	40	1-16 ER25	42	5000	88	75	113	79	50	5006-460
SQT 15/18-VMD25F	SQT15M-12D 18M-12D SQT200M-12D 250M-12D	40	1-16 ER25	42	5000	89	80	116	81.5	50	5006-461
SQT 15/18-VMD25F-1			1-16 ER25	42	(1:2) 7000	89	75	116	84	50	※ 5006-462
SQT 15/18-VMD32			2-20 ER32	50	5000	89	80	122	81.5	50	5006-463

# V Type Tapping Head

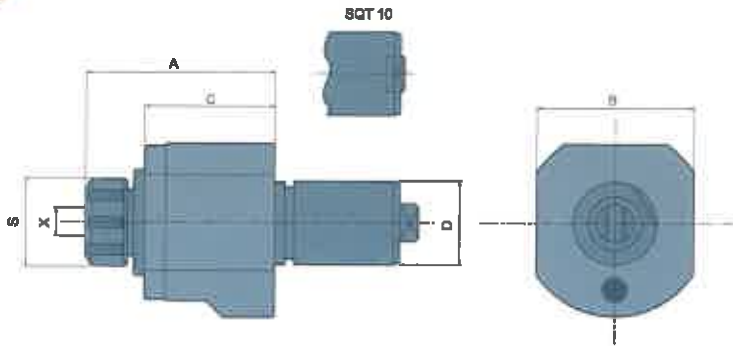
## DIMENSIONS

ORDER NO.	Machine Type	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	M	CODE NO.
SQT 10-VT16F	SQT10M-12D 15M-16D SQT200M-16D 250M-16D	40	1-10 ER16	30	4000	88	75	118	79	50	5006-464
SQT 15/18-VT20F	SQT15M-12D 18M-12D SQT200M-12D 250M-12D	40	1-13 ER20	30	4000	89	80	120	81.5	50	5006-465

# V Type Milling & Drilling Head

MAZAK SUPER QUICK TURN TYPE DA-SERIES

**NEW**



- External coolant supply
- Collet is not included
- To be used for collet DIN 6499

## DIMENSIONS

ORDER NO.	Machine Type	D	X Capacity	S	Maximum R.P.M.	A	B	C	CODE NO.
SQT 10-VMD25DA	SQT10M-12D 15M-16D SQT200M-16D 250M-16D	40	1-16 ER25	42	6000	91	75	59	5006-466
SQT 15/18-VMD32DA	SQT15M-12D 18M-12D SQT200M-12D 250M-12D	40	2-20 ER32	50	6000	117	80	80	5006-467

## V Type Tapping Head

※ ORDER MADE, NOT REFUNDABLE.

## DIMENSIONS

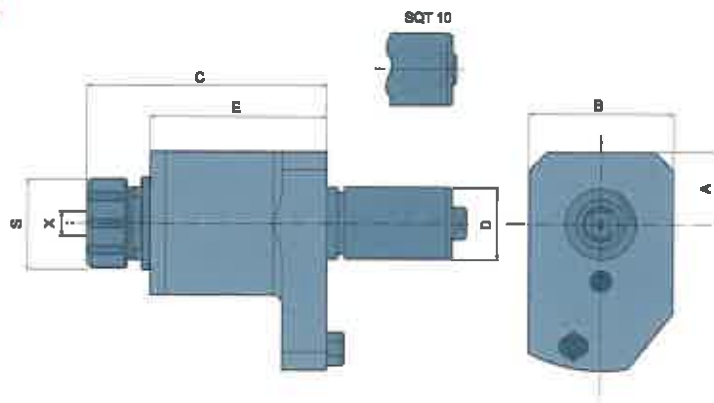
ORDER NO.	Machine Type	D	X Capacity	S	Maximum R.P.M.	A	B	C	CODE NO.
SQT 10-VT16DA	SQT10M-12D 15M-16D SQT200M-16D 250M-16D	40	1-10 ER16	30	4000	97	75	59	5006-468
SQT 15/18-VT20DA	SQT15M-12D 18M-12D SQT200M-12D 250M-12D	40	1-13 ER20	35	4000	120	80	80	5006-469

# V Type Milling & Drilling Head

MAZAK SUPER QUICK TURN TYPE

DA-SERIES, LONG

**NEW**



- External coolant supply
- Collet is not included
- To be used for collet DIN 6499

## DIMENSIONS

ORDER NO.	Machine Type	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	CODE NO.
SQT 15/18-VMD32L	SQT15M-12D 18M-12D SQT200M-12D 250M-12D	40	2-20 ER32	50	6000	40	80	117	82.5	5006-470
						40	80	133.5	98.5	5006-471



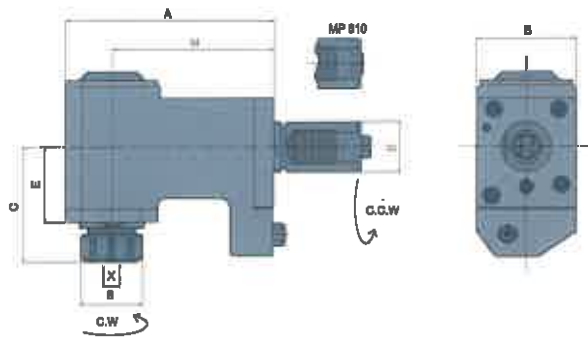
# V Type Milling & Drilling Head



MAZAK MULTIPLEX TYPE

※ORDER MADE, NOT REFUNDABLE.

NEW



- External coolant supply
- Collet is not included
- To be used for collet DIN 6499

## DIMENSIONS

※ 1:2 Speed boost

ORDER NO.	Machine Type	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	M	CODE NO.
MP 610-HMD25	MP410N-12D 415N-12D MP610-12D 6200-16D	40	1-16 ER25	42	5000	152	75	90	60	115	5006-476
MP 620-HMD25	MP420N-12D 620N-12D MP620-12D 6200-16D	40	1-16 ER25	42	5000	167	80	90	60	130	5006-476
MP 620-HMD32			2-20 ER32	50	5000	167	80	92	60	130	5006-477
MP 620-HMD32-2			2-20 ER32	50	(1:2) 7000	169	80	101	65.5	130	※ 5006-478

## H Type Tapping Head

## DIMENSIONS

ORDER NO.	Machine Type	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	M	CODE NO.
MP 610-HT16	MP410N-12D 415N-12D MP610-12D 6200-16D	40	1-10 ER16	30	3000	152	75	106	60	115	5006-479
MP 620-HT20	MP420N-12D 620N-12D MP620-12D 6200-16D	40	1-13 ER20	30	3000	167	80	108	60	130	5006-480

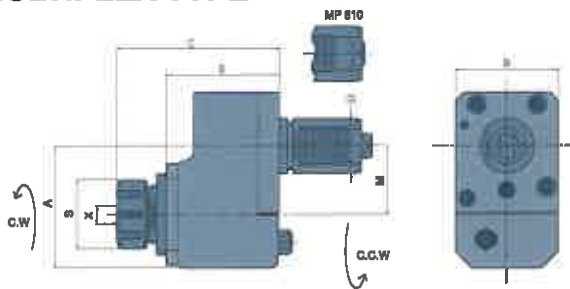


# V Type Milling & Drilling Head

MAZAK MULTIPLEX TYPE

OFFSET

NEW



- ◆ External coolant supply
- Collet is not included
- To be used for collet DIN 6499

## DIMENSIONS

ORDER NO.	Machine Type	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	M	CODE NO.
MP 610-VMD25F	MP410N-12D 415N-12D MP610-12D 6200-16D	40	1-16 ER25	42	5000	89	75	118	82.5	50	5006-481
MP 620-VMD16F	MP420N-12D 620N-12D MP620-12D 6200-16D	40	1-16 ER25	42	5000	89	80	116	81.5	50	5006-482
MP 620-VMD32F			2-20 ER32	50	5000	89	80	118	81.5	50	5006-483

## V Type Tapping Head

## DIMENSIONS

ORDER NO.	Machine Type	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	M	CODE NO.
MP 610-VT16F	MP410N-12D 415N-12D MP610-12D 6200-16D	40	1-10 ER16	30	4000	89	75	123	82.5	50	5006-484
MP 620-VT20F	MP420N-12D 620N-12D MP620-12D 6200-16D	40	1-13 ER20	35	4000	89	80	126	81.5	50	5006-485





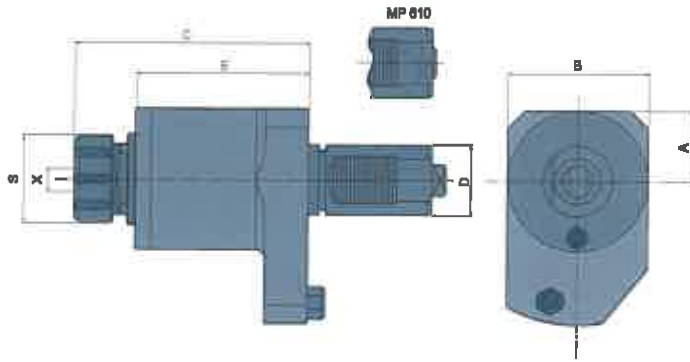
# V Type Milling & Drilling Head



MAZAK MULTIPLEX TYPE

DA-SERIES

NEW



- External coolant supply
- Collet is not included
- To be used for collet DIN 6499

## DIMENSIONS

ORDER NO.	Machine Type	D	X Capacity	S	Maximum R.P.M.	A	B	C	E	CODE NO.
MP 610-VMD25DA	MP410N-12D 415N-12D MP610-12D 6200-16D	40	1-16 ER25	42	6000	40	75	105	74	5006-486
MP 620-VMD25DA	MP420N-12D 620N-12D MP620-12D 6200-16D	40	1-16 ER25	42	6000	40	80	105	74	5006-487
MP 620-VMD32DA			2-20 ER32	50	6000	40	80	107	74	5006-488

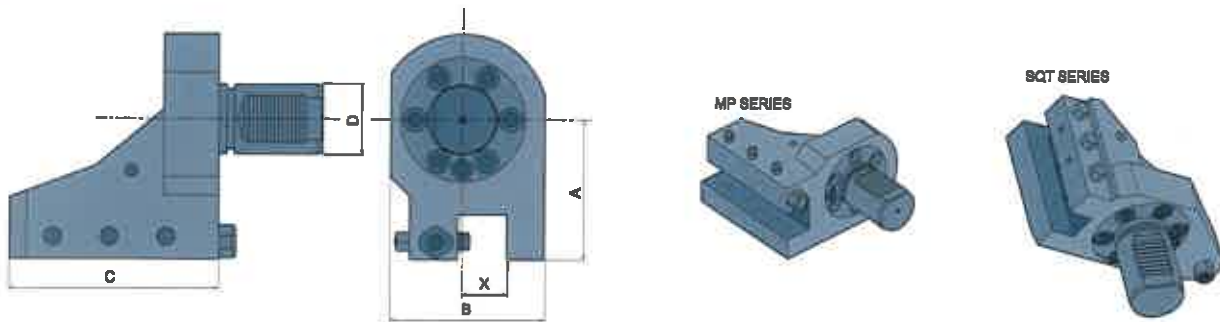


# Forward Turning Holder - RH

MAZAK SUPER QUICK TURN & MULTIPLEX TYPE

※ORDER MADE, NOT REFUNDABLE.

NEW



## DIMENSIONS

ORDER NO.	Machine Type	D	X	A	B	C	CODE NO.	
SQT 10M/15AM-FTRH-M	SQT-10M/15AM	40	mm	20	66	76	100	5006-490
SQT 10M/15AM-FTRH-I			Inch	0.75"	2.6"	3"	3.937"	5006-491
SQT 15M/18M-FTRH-M	SQT-15M/18M	40	mm	25	78	84	120	5006-492
SQT 15M/18M-FTRH-I			Inch	1"	3.071"	3.307"	4.724"	5006-493
MP 610N/615N-FTRH-M	MP-610N/615N	40	mm	20	85	76	100	5006-496
MP 410N/415N-FTRH-I	MP-410N/415N		Inch	0.75"	3.347"	3"	3.937"	5006-497
MP 620N/625N-FTRH-M	MP-620N/625N	40	mm	25	83	84	120	5006-498
MP 420N-FTRH-I	MP-420N		Inch	1"	3.268"	3.307"	4.724"	5006-499

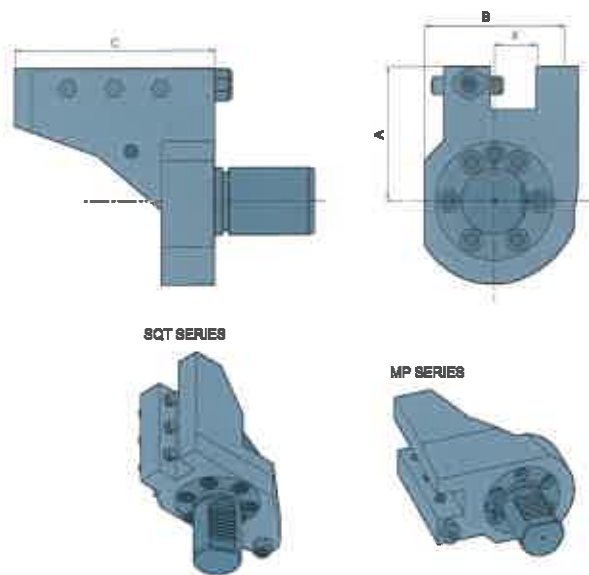


# Reverse Turning Holder - LH



MAZAK SUPER QUICK TURN & MULTIPLEX TYPE ※ORDER MADE, NOT REFUNDABLE.

NEW



## DIMENSIONS

ORDER NO.	Machine Type	D		X	A	B	C	CODE NO.
SQT 10M/15AM-RTLH-M	SQT-10M/15AM	40	mm	20	66	76	100	5006-502
SQT 10M/15AM-RTLH-I			inch	0.75"	2.6"	3"	3.937"	5006-503
SQT 15M/18M-RTLH-M	SQT-15M/18M	40	mm	25	78	84	120	5006-504
SQT 15M/18M-RTLH-I			inch	1"	3.071"	3.307"	4.724"	5006-505
SQT 28M/30M-RTLH-M	SQT-28M/30M	50	mm	25	-			5006-506
SQT 28M/30M-RTLH-I			inch	1"	-			5006-507
MP 610N/615N-RTLH-M	MP-610N/615N	40	mm	20	85	76	100	5006-508
MP 410N/415N-RTLH-I			inch	0.75"	3.347"	3"	3.937"	5006-509
MP 620N/625N-RTLH-M	MP-620N/625N	40	mm	25	83	84	120	5006-510
MP 420N-RTLH-I			inch	1"	3.268"	3.307"	4.724"	5006-511

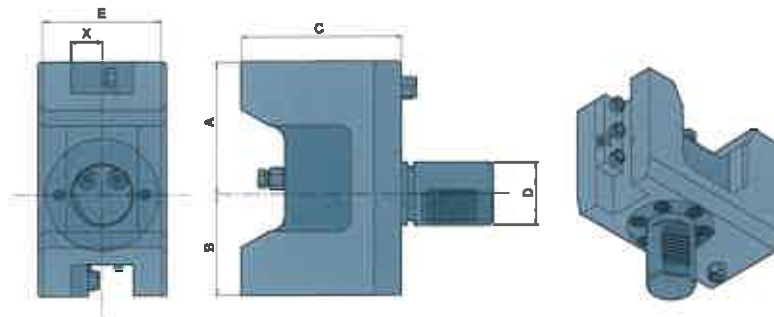
※ ON REQUEST



# Double Turning Holder

MAZAK SUPER QUICK TURN TYPE

NEW



## DIMENSIONS

ORDER NO.	Machine Type	D		X	A	B	C	E	CODE NO.
SQT 10M/15AM-DT-M	SQT-10M/15AM	40	mm	20	85	65	103	76	5006-514
SQT 10M/15AM-DT-I			inch	0.75"	3.347"	2.559"	4.055"	2.992"	5006-515
SQT 15M/18M-DT-M	SQT-15M/18M	40	mm	25	88	78	136	84	5006-516
SQT 15M/18M-DT-I			inch	1"	3.465"	3.071"	5.354"	3.307"	5006-517



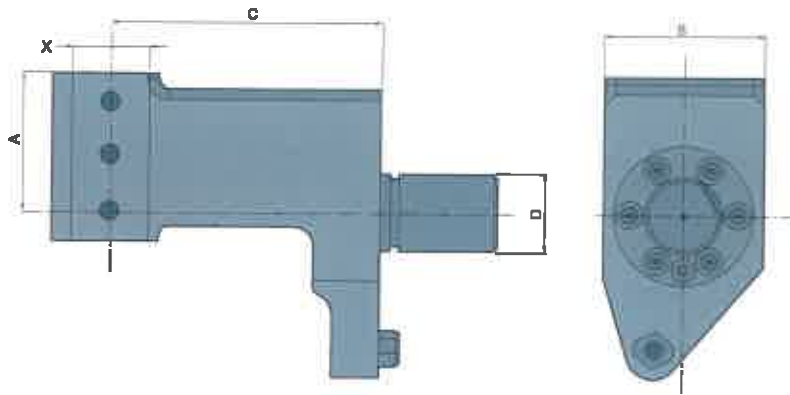
# Boring Bar Holder

MAZAK SUPER QUICK TURN TYPE



※ORDER MADE, NOT REFUNDABLE.

NEW



## DIMENSIONS

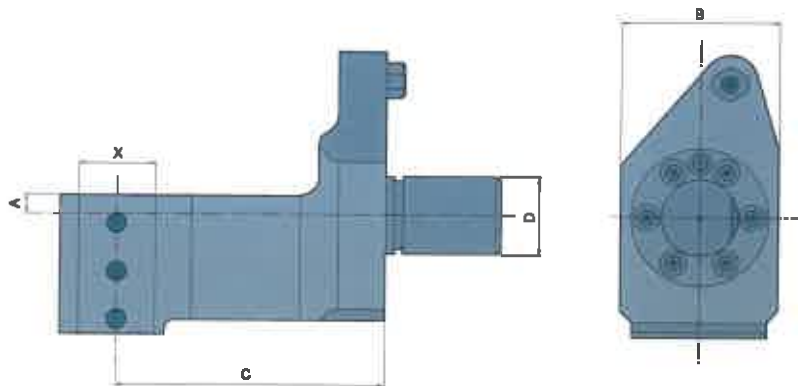
ORDER NO.	Machine Type	D		X	A	B	C	CODE NO.
SQT 10M/15AM-B-M	SQT-10M/15AM	40	mm	32	56	76	110	5006-520
SQT 10M/15AM-B-I			Inch	1.25"	2.205"	2.992"	4.331"	5006-521
SQT 15M/18M-B-M	SQT-15M/18M	40	mm	40	71	82	140	5006-522
SQT 15M/18M-B-I			Inch	1.5"	2.795"	3.228"	5.512"	5006-523
SQT 28M/30M-B-M	SQT-28M/30M	50	mm	50	65	90	175	5006-524
SQT 28M/30AM-B-I			Inch	2"	2.559"	3.543"	6.890"	5006-525



# Boring Bar Holder

MAZAK MULTIPLEX TYPE

NEW



## DIMENSIONS

ORDER NO.	Machine Type	D		X	A	B	C	CODE NO.
MP-610N-B-A	MP-610N	40	mm	25	5	76	120	5006-526
MP-610N-B-B			Inch	1"	0.197"	2.997"	4.724"	5006-527
MP-610N-B-C			mm	32	10	76	120	5006-528
MP-610N-B-D			Inch	1.25"	0.394"	2.997"	4.724"	5006-529
MP-615N-B-A	MP-615N	40	mm	25	10	76	130	5006-530
MP-615N-B-B			Inch	1"	0.394"	2.997"	5.118"	5006-531
MP-615N-B-C			mm	32	10	76	130	5006-532
MP-615N-B-D			Inch	1.25"	0.394"	2.997"	5.118"	5006-533
MP-620N-B-A	MP-620N	40	mm	25	5	82	140	5006-534
MP-620N-B-B			Inch	1"	0.197"	3.228"	5.512"	5006-535
MP-620N-B-C			mm	40	10	82	140	5006-536
MP-620N-B-D			Inch	1.5"	0.394"	3.228"	5.512"	5006-537



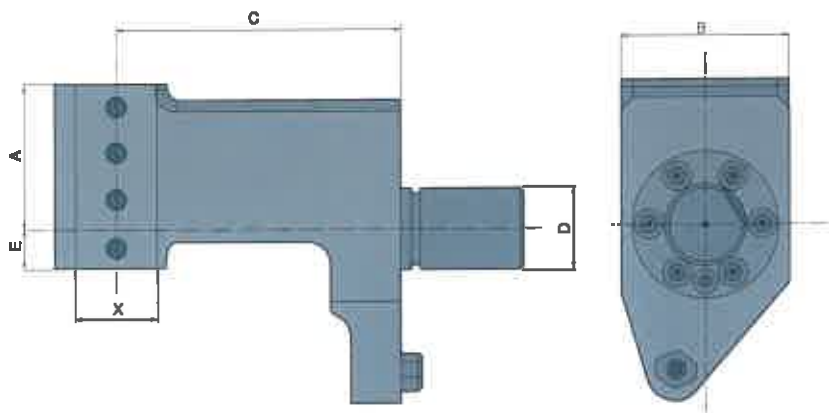
# Double Boring Bar Holder



MAZAK SUPER QUICK TURN TYPE

※ORDER MADE, NOT REFUNDABLE.

NEW



## DIMENSIONS

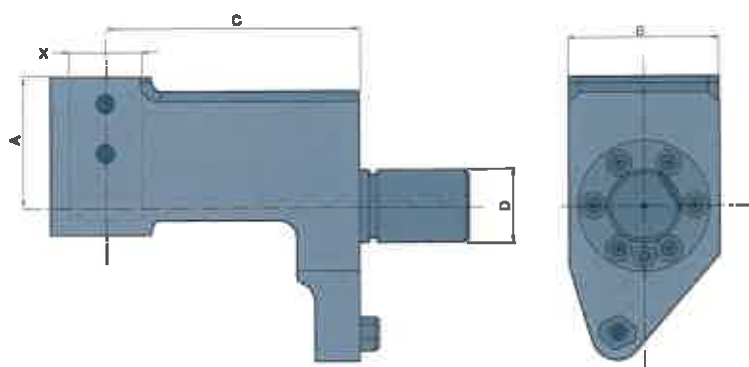
ORDER NO.	Machine Type	D		X	A	B	C	E	CODE NO.
SQT 10M/15AM-DB-M	SQT-10M/15AM	40	mm	20	60	76	110	10	5006-540
SQT 10M/15AM-DB-I			inch	0.75"	2.362"	3"	4.331"	0.394"	5006-541
SQT 15M/18M-DB-M	SQT-15M/18M	40	mm	25	85	84	140	15	5006-542
SQT 15M/18M-DB-I			inch	1"	3.346"	3.307"	5.512"	0.591"	5006-543
SQT 28M/30M-DB-M	SQT-28M/30M	50	mm	32	75	90	180	35	5006-544
SQT 28M/30M-DB-I			inch	1.25"	2.953"	3.543"	7.087"	1.378"	5006-545



# U Drill Holder

MAZAK SUPER QUICK TURN TYPE

NEW



● External, internal coolant supply

## DIMENSIONS

ORDER NO.	Machine Type	D		X	A	B	C	CODE NO.
SQT 10M/15AM-UD-M	SQT-10M/15AM	40	mm	32	48	76	110	5006-550
SQT 10M/15AM-UD-I			inch	-	1.890"	2.992"	4.331"	5006-551
SQT 15M/18M-UD-M	SQT-15M/18M	40	mm	40	63	82	140	5006-552
SQT 15M/18M-UD-I			inch	-	2.480"	3.228"	5.512"	5006-553



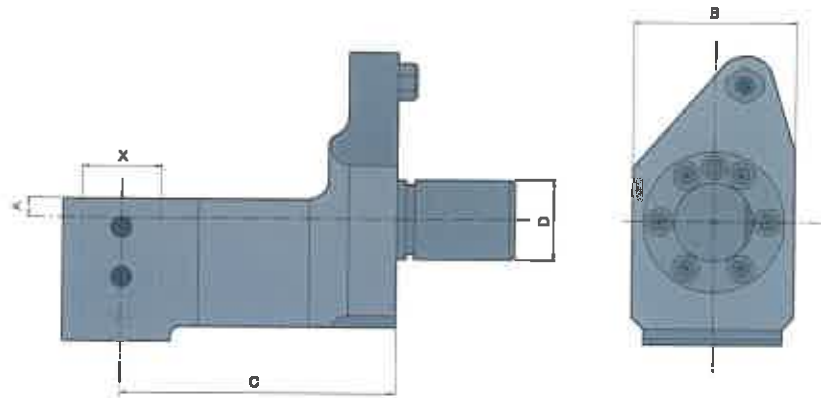
# U Drill Holder

MAZAK MULTIPLEX TYPE



※ORDER MADE, NOT REFUNDABLE.

NEW



● External, internal coolant supply

## DIMENSIONS

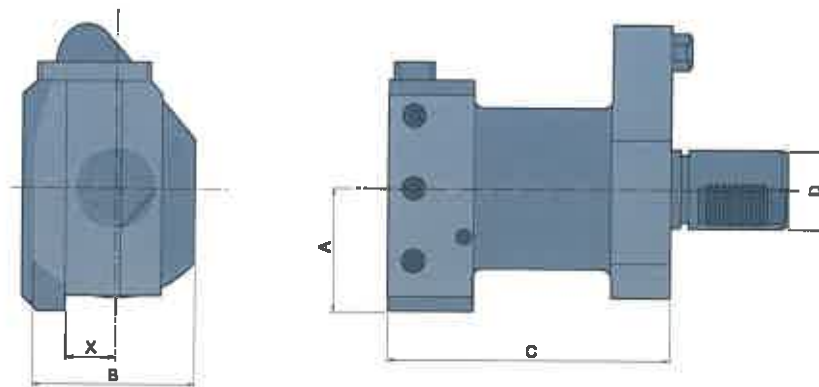
ORDER NO.	Machine Type	D		X	A	B	C	CODE NO.
MP-610-UD-M	MP-610	40	mm	25	10	76	120	5006-560
MP-610-UD-I			inch	-	0.394"	2.992"	4.724"	5006-561
MP-620-UD-M	MP-620	40	mm	40	10	82	140	5006-562
MP-620-UD-I			inch	-	0.394"	3.228"	5.512"	5006-563



# Facing Holder - RH

MAZAK SUPER QUICK TURN & MULTIPLEX TYPE

NEW

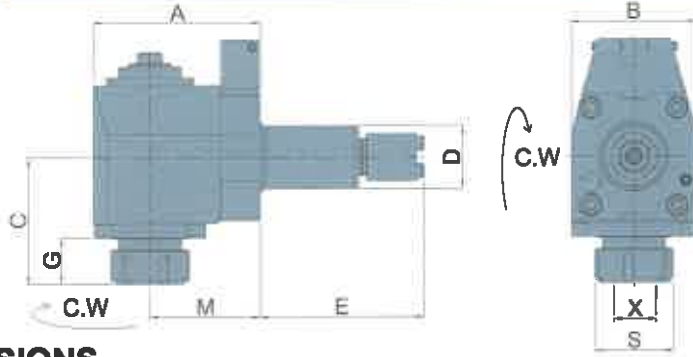


## DIMENSIONS

ORDER NO.	Machine Type	D		X	A	B	C	CODE NO.
SQT 10M/15AM-FRH-M	SQT-10M/15AM	40	mm	20	65	76	110	5006-570
SQT 10M/15AM-FRH-I			inch	0.75"	2.559"	2.992"	4.331"	5006-571
SQT 15M/18M-FRH-M	SQT-15M/18M	40	mm	25	60	82	143	5006-572
SQT 15M/18M-FRH-I			inch	1"	2.362"	3.228"	5.630"	5006-573
SQT 28M/30M-FRH-M	SQT-28M/30M	50	mm	25	57	90	163	5006-574
SQT 28M/30M-FRH-I			inch	1"	2.244"	3.543"	6.417"	5006-575
MP 610N/615N-FRH-M	MP-610N/615N	40	mm	20	65	76	110	5006-576
MP 410N/415N-FRH-I	MP-410N/415N		inch	0.75"	2.559"	2.992"	4.331"	5006-577
MP 620N/625N-FRH-M	MP-620N/625N	40	mm	25	55	82	143	5006-578
MP 420N-FRH-I	MP-420N		inch	1"	2.165"	3.228"	5.630"	5006-579

# Radial Drilling And Milling Heads **VERTEX**

TYPE HAAS

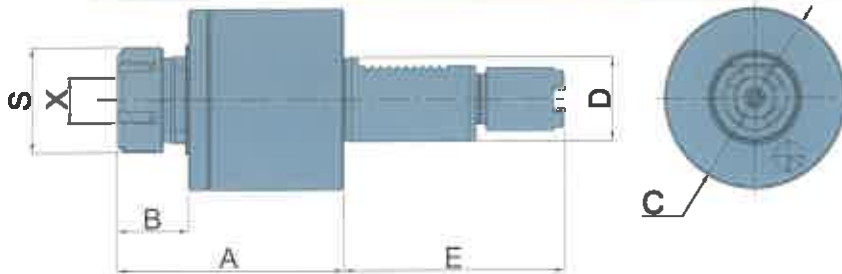


- 1.External coolant supply
- 2.To be used for collet DIN 6499
- 3.Collet is not included

## DIMENSIONS

ORDER NO.	D	X capacity	S	Maximum R.P.M.	A	B	C	G	M	E	MODELS	CODE NO.
VDI-40-FL40-32-104	40	2-20 ER32	50	4000	106	80	76.5	27.5	70	104.85	SL-20/TL-15	5006-600
117.55										SL-30/TL-25 SL-40	5006-601	
130.25										SL-40	5006-602	

# Axial Milling And Drilling Heads



- ※ORDER MADE, NOT REFUNDABLE.
- 1.External coolant supply
  - 2.To be used for collet DIN 6499
  - 3.Collet is not included

## DIMENSIONS

ORDER NO.	D	X capacity	S	Maximum R.P.M.	A	B	C	E	MODELS	CODE NO.
VDI-40-DA40-32104	40	2-20 ER32	50	6000	108	34	86	104.85	SL-20/TL-15	5006-610
117.55								SL-30/TL-25	5006-611	
130.25								SL-40	5006-612	

# Reducing Sleeves

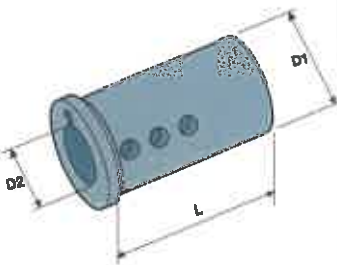
RS-W, RS TYPE

## DIMENSIONS

D1	L	ORDER NO. D2	CODE NO.
20	45	E20-6	5006-369
		E20-8	5006-370
		E20-10	5006-371
25	55	E25-6	5006-372
		E25-8	5006-373
		E25-10	5006-374
		E25-12	5006-375
32	60	E32-6	5006-376
		E32-8	5006-377
		E32-10	5006-378
		E32-12	5006-379
40	75	E40-6	5006-381
		E40-8	5006-382
		E40-10	5006-383
		E40-12	5006-384
50	85	E50-8	5006-388
		E50-10	5006-389
		E50-12	5006-390
		E50-16	5006-391
		E50-20	5006-392
		E50-25	5006-393

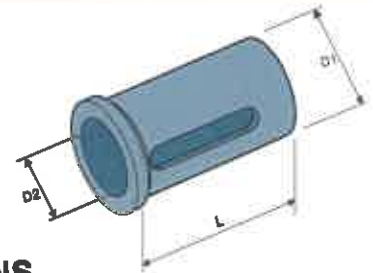
**RS-W**

- External Coolant Supply
- For Boring Bar Holder



**RS**

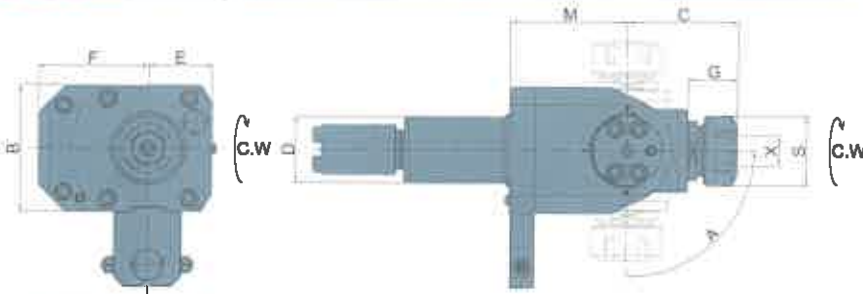
- For Boring Bar Holder



## DIMENSIONS

D1	L	ORDER NO. D2	CODE NO.
20	50	E20-12-K	5006-399
		E20-16-K	5006-400
25	50	E25-16-K	5006-401A
		E25-20-K	5006-401
32	60	E32-16-K	5006-402A
		E32-20-K	5006-402B
		E32-25-K	5006-402
40	75	E40-16-K	5006-403A
		E40-20-K	5006-403B
		E40-25-K	5006-403C
		E40-32-K	5006-403
50	85	E50-32-K	5006-404A
		E50-40-K	5006-404

## TYPE HAAS



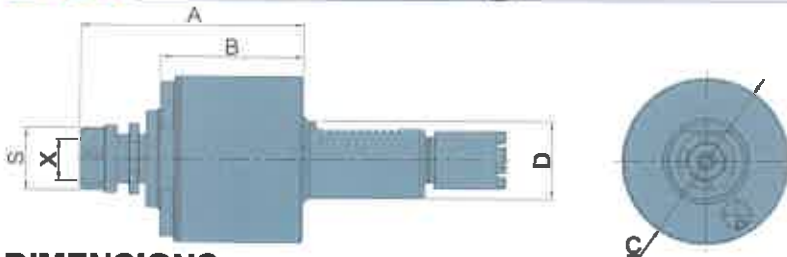
- 1.External coolant supply
- 2.To be used for collet DIN 6499
- 3.Collet is not included

### DIMENSIONS

ORDER NO.	D DIN 69880	X capacity	Maximum R.P.M.	S	A	B	C	E	F	G	M	CODE NO.
VDI-40-DA40-25B-117	40	2-16 ER25	4000	42	±90°	76	65	65	38	29	70	5006-621
VDI-40-DA40-32B-117		2-20 ER32		50								5006-622

# Axial Drilling And Milling Heads

※ORDER MADE, NOT REFUNDABLE.



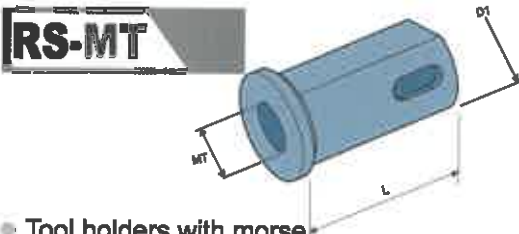
- 1.External coolant and intermediate rings supply
- 2.To be used for cutter arbor according to DIN 6358

### DIMENSIONS

ORDER NO.	D DIN 69880	X capacity	Maximum R.P.M.	S	I	A	B	C	CODE NO.
VDI-40-TDA40-20-104.85	40	1-13 ER40	3000	35	1:01	114.5	73.5	86	5006-631

# Reducing Sleeves

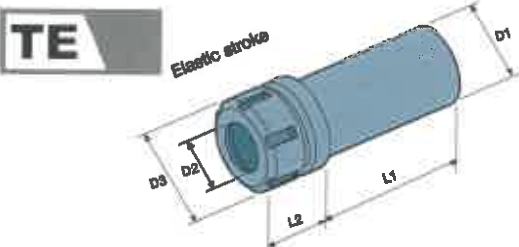
RS-W, RS TYPE



- Tool holders with morse taper according to DIN 228

### DIMENSIONS

D1	L	MT				ORDER NO.
		1	2	3	4	
32	60	E32-MT1	E32-MT2	E32-MT3		ORDER NO.
		5006-410	5006-411	5006-412		CODE NO.
40	70	E40-MT1	E40-MT2	E40-MT3	E40-MT4	ORDER NO.
		5006-414	5006-415	5006-416	5006-417	CODE NO.
50	85	E50-MT1	E50-MT2	E50-MT3	E50-MT4	ORDER NO.
		5006-418	5006-419	5006-420	5006-421	CODE NO.



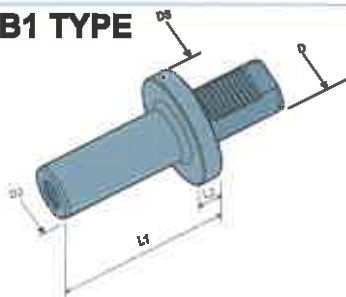
- Auto taper with cylindric shaft
- To be used for collet DIN 6499

### DIMENSIONS

ORDER NO.	D1	D2	D3	L1	L2	CODE NO.	
TE25-ER16	25	1-10	M3-M12	ER16 32	70.5	30	5006-430
TE32-ER20	32	2-13	M3-M16	ER20 35	65	40	5006-431
TE40-ER25	40	2-16	M4-M20	ER25 42	75	43	5006-432
TE50-ER32	50	3-20	M6-M24	ER32 50	85	48	5006-433

# Test Mandrel

TB1 TYPE



DIN 69880

### DIMENSIONS

ORDER NO.	D DIN 69880	D2	D3	L1	L2	CODE NO.
TB1-30	30	30	68	115	15	5006-434
TB1-40	40	40	83	115	15	5006-435
TB1-50	50	50	98	115	15	5006-436

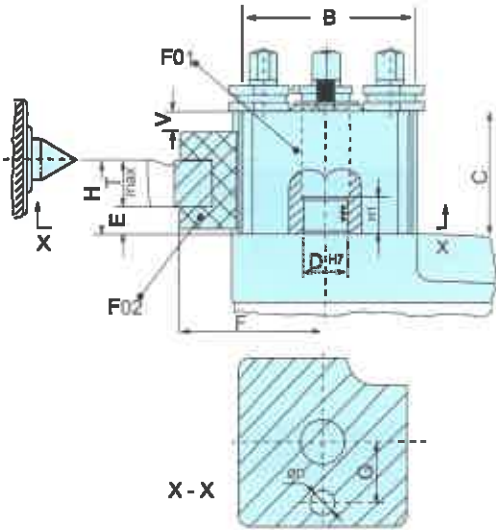


**NEW**



### Italian Style


- The main block is assembled with cast-hardened steel, secured rigidly by the latch carriage machine steel bolt.
- The main block has 4 slide openings for inserting the proper tool-holder; these can be securely fastened by a simple and safe eccentric device, which also adjusts the height for each tool holder.
- The tool shank is securely held by 4 hardened screws. The simplicity and fast tool changing increase the production of lathe turning.
- No chatter or vibrations.
- This style is interchangeable with Rapidue and STM.



### Complete set includes:

- 1 pieces Tool post
- 3 pieces of turning holders
- 1 piece of Round shanks
- Standard spanners

### MAIN BODY DIMENSIONS

ORDER NO.	Lathe swing	B	D <sup>H7</sup>	H		C	E	T <sub>max</sub>	F	V <sub>max</sub>	Ø <sub>max</sub>	Morse NO.	ØD	G	H1		
				Min	Max												
VTP-M	180-250	57.7	18	24	34	45	8	16	56	10	14	1	7	27	18	70	
VTP-AR-AP	250-300	64.5	18	25	41	56	9	16	63	16	16	1	8	30	16	80	
VTP-A	250-350	82.0	24	32	42	60	12	20	75	10	18	2	10	35	20	100	
VTP-BR-BP	300-380	91.6	28	38	53	75	13	25	90	17	20	3	10	40	20	115	
VTP-B	350-500	100.0	30	47	65	85	15	32	100	15	24	3	12	48.2	25	127	
VTP-C	500-650	115.3	38	51	72	94	19	32	108	24	26	4	14	58.2	26	145	

### SET TYPE

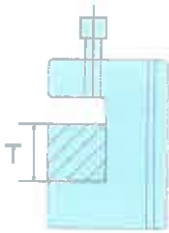
ORDER NO.	5-PIECE SETS EACH SET INCLUDES	G.W. kgs	CODE NO.
VTP-M	1 x F01-M, 3 x F02-M AND 1 x F03-M	3.1	5006-890
VTP-AR-AP	1 x F01-AR-AP, 3 x F02-AR-AP AND 1 x F03-AR-AP	4.5	5006-891
VTP-A	1 x F01-A, 3 x F02-A AND 1 x F03-A	9.3	5006-892
VTP-BR-BP	1 x F01-BR-BP, 3 x F02-BR-BP AND 1 x F03-BR-BP	13.2	5006-893
VTP-B	1 x F01-B, 3 x F02-B AND 1 x F03-B	17.5	5006-894
VTP-C	1 x F01-C, 3 x F02-C AND 1 x F03-C	23.0	5006-895



### Tool Post



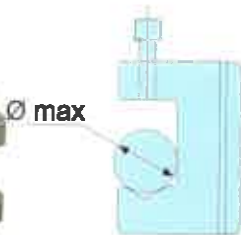
ORDER NO.	Centre Height (mm)	Lathe Swing (mm)	CODE NO.
VTP-F01-M	120	240	5006-900
VTP-F01-AR-AP	140	280	5006-901
VTP-F01-A	170	340	5006-902
VTP-F01-BR-BP	200	400	5006-903
VTP-F01-B	230	460	5006-904
VTP-F01-C	280	560	5006-905



● Turning Holders

### Turning Holder

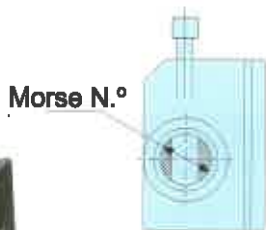
ORDER NO.	Centre Height (mm)	Max. Square & Rectangular Tool (mm)	CODE NO.
VTP-F02-M	120	16	5006-906
VTP-F02-AR-AP	140	16	5006-907
VTP-F02-A	170	20	5006-908
VTP-F02-BR-BP	200	25	5006-909
VTP-F02-B	230	32	5006-910
VTP-F02-C	280	32	5006-911



● Round Shanks

### Round Shanks

ORDER NO.	Centre Height (mm)	Max. Holding Dia (mm)	CODE NO.
VTP-F03-M	120	14	5006-912
VTP-F03-AR-AP	140	16	5006-913
VTP-F03-A	170	18	5006-914
VTP-F03-BR-BP	200	20	5006-915
VTP-F03-B	230	24	5006-916
VTP-F03-C	280	26	5006-917



● Morse Holder

### Morse Holder

ORDER NO.	Centre Height (mm)	Morse Taper Hole	CODE NO.
VTP-F04-M	120	MT No. 1	5006-918
VTP-F04-AR-AP	140	MT No. 2	5006-919
VTP-F04-A	170	MT No. 2	5006-920
VTP-F04-BR-BP	200	MT No. 3	5006-921
VTP-F04-B	230	MT No. 3	5006-922
VTP-F04-C	280	MT No. 4	5006-923

TOOL POST



# Quick Change Tool Post & Holders-40

## Positioning European Style



**NEW**



### European Style

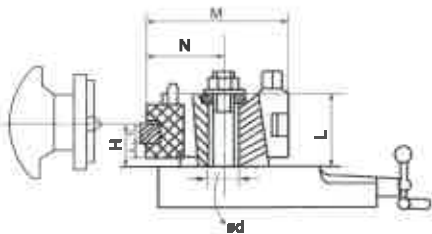
Tool post and tool holders are precisely grounded with 40 tool-bit positions. Easy to operate and can be fitted with many different tool-holders. Locking and loosening of any tool-holders are performed by a simple eccentric clamping. The simplicity and fast tool changing increases the lathe turning production. A height adjustment for tool bits is controlled by a knurled head-screw, without the need for packing plates or shims. This style is interchangeable with Hasse.

### Complete set includes:

- 1 Pieces Tool post
- 3 pieces Turning & Facing Holder-"D"
- 1 piece Boring Bar Holder-"B"

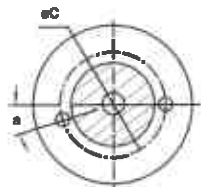
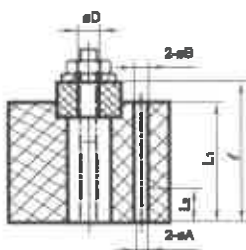
ORDER NO.	5-PIECE SETS EACH SET INCLUDES (5 pcs/set)	G.W. kgs	CODE NO.
VTP-V-A0	1 x tool post F40-0(A0), 2 x F40-010(A0D12x50) and 1 x F40-020(A0B12x50) and 1 x F40-040(A0A2.7x10x50)	1.5	5006-955A
VTP-V-A1	1 x tool post F40-1(A1), 2 x F40-111(A1D16x75) and 1 x F40-140(A1A2.7x10x75) and 1 x F40-121(A1B16x80)	4.0	5006-956A
VTP-V-E5	1 x tool post F40-2(B5), 2 x F40-211(E5D20x100) and 1 x F40-220(E5B30x100) and 1 x F40-240(E5A2.7x10x100)	8.0	5006-957A
VTP-B2	1 x tool post F40-3(B2), 3 x F40-311(B2D25x120) and 1 x F40-320(B2B32x130)	12.3	5006-958
VTP-C3	1 x tool post F40-4(C3), 3 x F40-411(C3D32x150) and 1 x F40-422(C3B40x160)	24.3	5006-959

### Set Style For Lathe



ORDER NO.	VTP-F40-0	VTP-F40-1	VTP-F40-2	VTP-F40-3	VTP-F40-4
	D12	D16 D20	D20 D25	D25 D32	D32 D40 D45
Driving Power (kw)	1.2	2	4.5	7	13
Lathe Swing (mm)	120-220	150-300	200-400	300-500	400-700
H min. (mm)	18.5	25.5 29.5	32 37	38 46	47.5 55.5 61
H max. (mm)	26.5	36.5 40.5	49 52	58 57	87.5 91.5 91
y (mm)	6.5	9.5	12	13 14	15.5 15.5 16
h (mm)	12	16 20	20 25	25 32	32 40 45
M (mm)	6.8	104	132	150	192 201 202
L (mm)	37	55	68	76	107
N (mm)	34	52	66	73	93 102 103
ød (mm)	13	20	20	32	40

### 40 Position Tool Post Body



ORDER NO.	ØD	L2	L1	∠	ØA	ØB	ØC	α
VTP-F40-0	6	-	30	37	-	-	-	-
VTP-F40-1	10	12	45	55.3	5.6	6.8	42	18°
VTP-F40-2	10	14	57	67.3	5.6	6.8	49	15°
VTP-F40-3	14	20	65	75	6.9	9	64	30°
VTP-F40-4	24.5	10	95	107	9.5	11	88	18°

### 40 Position Tool Post



ORDER NO.	Lathe swing (mm)	For Style NO.	Height of cutting edge range (mm)	CODE NO.
VTP-F40-0	120-220	VTP-A0	D12/18.5~26.5	5006-930
VTP-F40-1	150-300	VTP-A1	D16/25.5~36.5 or D20/29.5~40.5	5006-931
VTP-F40-2	200-400	VTP-E5	D20/32~49 or D25/37~52	5006-932
VTP-F40-3	300-500	VTP-B2	D25/38~58 or D32/46~57	5006-933
VTP-F40-4	400-700	VTP-C3	D32/47.5~87.5 or D40/55.5~91.5 or D45/61~91	5006-934



# Quick Change Tool Post & Holders-40

## Positioning European Style



**NEW**

### Turning & Facing Holder



ORDER NO.	Series NO.	Max. Height (mm)	Max. Length (mm)	CODE NO.
VTP-F40-010	A0D	12	50	5006-935
VTP-F40-111	A1D	16	75	5006-936
VTP-F40-112	A1D	16	80	5006-937
VTP-F40-113	A1D	16	90	5006-938
VTP-F40-114	A1D	20	75	5006-939
VTP-F40-110	A1D	20	80	5006-940
VTP-F40-115	A1D	20	90	5006-941
VTP-F40-211	E5D	20	100	5006-942
VTP-F40-212	E5D	25	100	5006-943
VTP-F40-311	B2D	25	120	5006-944
VTP-F40-312	B2D	25	140	5006-945
VTP-F40-313	B2D	32	120	5006-946
VTP-F40-314	B2D	32	140	5006-947
VTP-F40-411	C3D	32	150	5006-948
VTP-F40-412	C3D	32	170	5006-949
VTP-F40-413	C3D	40	150	5006-950
VTP-F40-414	C3D	40	170	5006-951
VTP-F40-415	C3D	45	170	5006-952

### Boring Bar Holder



ORDER NO.	Series NO.	Max. Dia (mm)	Length (mm)	CODE NO.
VTP-F40-020	A0B	12	50	5006-960
VTP-F40-121	A1B	16	80	5006-961
VTP-F40-120	A1B	18	80	5006-962
VTP-F40-122	A1B	20	90	5006-963
VTP-F40-220	E5B	30	100	5006-964
VTP-F40-320	B2B	32	130	5006-965
VTP-F40-421	C3B	32	160	5006-966
VTP-F40-422	C3B	40	160	5006-967

### Drilling & Boring Bar Holder



ORDER NO.	Series NO.	Max. Dia (mm)	Length (mm)	CODE NO.
VTP-F40-030	A0S	15	50	5006-968
VTP-F40-130	A1S	30	80	5006-969
VTP-F40-131	A1S	20	90	5006-970
VTP-F40-231	E5S	30	100	5006-971
VTP-F40-232	E5S	40	100	5006-972
VTP-F40-330	B2S	40	120	5006-973
VTP-F40-431	C3S	40	150	5006-974
VTP-F40-432	C3S	50	150	5006-975

### Cut-Off Tool Holder



ORDER NO.	Series NO.	Blade- TxW	Length (mm)	CODE NO.
VTP-F40-040	A0A	2.7 x 10	50	5006-976
VTP-F40-140	A1A	2.7 x 10	75	5006-977
VTP-F40-240	E5A	2.7 x 10	100	5006-978
VTP-F40-340	B2A	4 x 16	120	5006-979
VTP-F40-440	C3A	5 x 18.5	150	5006-980

### Morse Taper Bushing



ORDER NO.	Series NO.	Diameter (mm)	Length (mm)	Morse Taper	CODE NO.
VTP-F40-151	A1L	30	80	NO.1	5006-981
VTP-F40-152	A1L	30	90	NO.2	5006-982
VTP-F40-251	E5L	30	96	NO.2	5006-983
VTP-F40-252	E5L	40	114	NO.3	5006-984
VTP-F40-350	E5L	40	120	NO.2	5006-985
VTP-F40-351	E5L	40	120	NO.3	5006-986
VTP-F40-451	C3L	40	140	NO.3	5006-987
VTP-F40-452	C3L	40	150	NO.4	5006-988
VTP-F40-453	C3L	50	150	NO.4	5006-989

TOOL POST



# Quick Change Tool Post American Type



**NEW**

- For conventional lathe.
- The height of the post unit can be adjusted to desire position & center line.
- Can choose set type or separated holders.
- Harden & precise positions.



PISTON TYPE SETS VTP-□□□□P TYPE  
BODY WITH 6 PCS HOLDER

## PISTON STYLE TOOL POST SETS

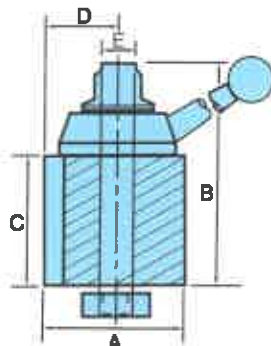
ORDER NO.	LATHE SWING	6-PIECE SETS EACH SET INCLUDES (6PCS/SET)	N. W. KGS	CODE NO.
VTP-0012P	12"	1 xF50-100, 1 xF50-101, 1 xF50-102 1 xF50-104, 1 xF50-107, 1 xF50-110 EACH 1PCS	5.5	5006-1101
VTP-1015P	10"-15"	1 xF50-200, 1 xF50-201, 1 xF50-202 1 xF50-204, 1 xF50-207, 1 xF50-210 EACH 1PCS	8	5006-1102
VTP-1318P	13"-18"	1 xF50-300, 1 xF50-301, 1 xF50-302 1 xF50-304, 1 xF50-307, 1 xF50-310 EACH 1PCS	11.5	5006-1103
VTP-1420P	14"-20"	1 xF50-400 1 xF50-401, 1 xF50-402 1 xF50-404, 1 xF50-407, 1 xF50-410 EACH 1PCS	21	5006-1104



WEDGE TYPE SETS VTP-□□□□W TYPE  
BODY WITH 6 PCS HOLDER

## WEDGE STYLE TOOL POST SETS

ORDER NO.	LATHE SWING	6-PIECE SETS EACH SET INCLUDES (6PCS/SET)	N. W. KGS	CODE NO.
VTP-0012W	12"	1 xF50-111, 1 xF50-101, 1 xF50-102 1 xF50-104, 1 xF50-107, 1 xF50-110 EACH 1PCS	5.5	5006-1121
VTP-1015W	10"-15"	1 xF50-222, 1 xF50-201, 1 xF50-202 1 xF50-204, 1 xF50-207, 1 xF50-210 EACH 1PCS	8.0	5006-1122
VTP-1318W	13"-18"	1 xF50-333, 1 xF50-301, 1 xF50-302 1 xF50-304, 1 xF50-307, 1 xF50-310 EACH 1PCS	12.8	5006-1123
VTP-1420W	14"-20"	1 xF50-444, 1 xF50-401, 1 xF50-402 1 xF50-404, 1 xF50-407, 1 xF50-410 EACH 1PCS	21.0	5006-1124
VTP-1748W	17"-48"	1 xF50-555 1 xF50-501, 1 xF50-502 1 xF50-504, 1 xF50-507, 1 xF50-510 EACH 1PCS	40.0	5006-1125



## QUICK CHANGE TOOL POST PISTON STYLE-ACCESSORIES

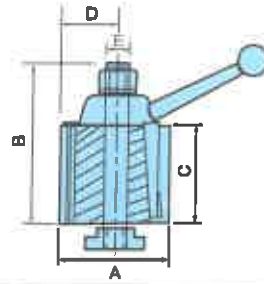
ORDER NO.	SWING FOR LATHE		A		B		C		D		E	CODE NO.
	INCH	MERTIC	INCH	MERTIC	INCH	MERTIC	INCH	MERTIC	INCH	MERTIC		
VTP-F50-1	12	304	2 1/2	63.5	3 3/4	95.25	2 1/4	57.15	1 7/16	38.512	M14X1.5	5006-1131
VTP-F50-2	10-15	255-380	3	76.2	4 3/8	111.125	2 3/4	69.85	1 5/8	41.275	M16X1.5	5006-1132
VTP-F50-3	13-18	330-455	3 3/8	85.725	4 7/8	123.825	3	76.2	1 7/8	47.625	M20X2	5006-1133
VTP-F50-4	14-20	355-505	4	101.6	6	152.4	3 5/8	92.075	2 1/8	53.975	M20X2	5006-1134



# Quick Change Tool Post American Type

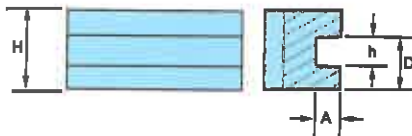


**NEW**



## QUICK CHANGE TOOL POST WEDGE STYLE

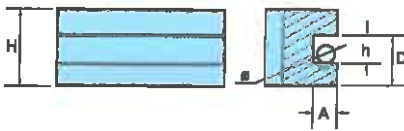
ORDER NO.	SWING FOR LATHE		A		B		C		D		E	CODE NO.
	INCH	MERTIC	INCH	MERTIC	INCH	MERTIC	INCH	MERTIC	INCH	MERTIC		
VTP-F50-11	12	304	2 1/2	63.5	3 3/4	95.25	2 1/4	57.15	1 3/8	34.925	M14X1.5	5006-1141
VTP-F50-22	10-15	255-350	3	76.2	4 3/8	111.125	2 3/4	69.85	1 9/16	39.68	M16X1.5	5006-1142
VTP-F50-33	13-18	330-455	3 1/2	88.9	4 7/8	123.83	3	76.2	1 29/32	48.42	M20X2	5006-1143
VTP-F50-44	14-20	355-505	4	101.6	6	152.4	3 5/8	92.075	2 1/8	53.975	M22X2	5006-1144
VTP-F50-55	17-48	435-1215	5	127	7 3/8	187.32	4 5/8	117.47	2 11/16	68.26	M24X2	5006-1145



## TURNING AND FACING HOLDER

ORDER NO.	A		D		H		h		CODE NO.
	INCH	MERTIC	INCH	MERTIC	INCH	MERTIC	INCH	MERTIC	
VTP-F50-101	7/16	11.11	15/16	23.81	1 1/2	38.1	1/2	12.7	5006-1151
VTP-F50-201	1/2	12.7	1 1/8	28.57	1 3/4	44.45	5/8	15.87	5006-1152
VTP-F50-301	5/8	15.87	1 7/16	36.51	2 1/8	53.97	3/4	19.05	5006-1153
VTP-F50-401	3/4	19.05	1 11/16	42.86	2 1/2	63.5	1	25.4	5006-1154
VTP-F50-501	1	25.4	3 3/16	55.56	3 1/8	79.37	1 1/4	31.75	5006-1155

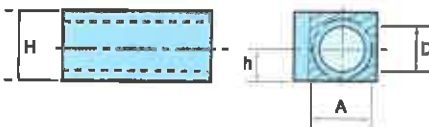
Suitable for any size smaller than max. Height h.



## BORING, TURNING AND FACING HOLDER

ORDER NO.	A		D		H		h		Ø		CODE NO.
	INCH	MERTIC	INCH	MERTIC	INCH	MERTIC	INCH	MERTIC	INCH	MERTIC	
VTP-F50-102	7/16	11.11	15/16	23.81	1 1/2	38.1	1/2	12.7	7/16	11.11	5006-1161
VTP-F50-202	1/2	12.7	1 1/8	28.57	1 3/4	44.45	5/8	15.87	1/2	12.7	5006-1162
VTP-F50-302	5/8	15.87	1 7/16	36.51	2 1/8	53.97	3/4	19.05	5/8	15.87	5006-1163
VTP-F50-402	3/4	19.05	1 11/16	42.86	2 1/2	63.5	1	25.4	3/4	19.05	5006-1164
VTP-F50-502	1	25.4	3 3/16	55.56	3 1/8	79.37	1 1/4	31.75	1 1/8	28.57	5006-1165

Suitable for square and round shank & boring bars.



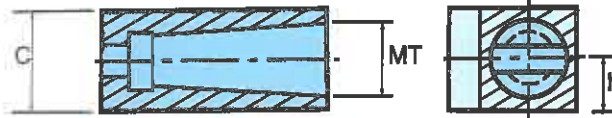
Split bushing suitable for small boring bars & drill.

## HEAVY DUTY BORING BAR HOLDER

ORDER NO.	A		D		H		h		CODE NO.
	INCH	MERTIC	INCH	MERTIC	INCH	MERTIC	INCH	MERTIC	
VTP-F50-104	3/4	19.05	5/8	15.87	1 1/2	38.1	3/4	19.05	5006-1171
VTP-F50-204	1	25.4	3/4	19.05	1 3/4	44.45	7/8	22.22	5006-1172
VTP-F50-304	1	25.4	3/4	19.05	2	50.8	1	25.4	5006-1173
VTP-F50-404	1 1/4	31.75	1	25.4	2 1/2	63.5	1 1/4	31.75	5006-1174
VTP-F50-504	1 1/2	38.1	1 1/4	31.75	3 1/8	79.37	1 9/16	39.68	5006-1175
VTP-F50-141	1	25.4	3/4	19.05	1 3/4	44.45	7/8	22.22	5006-1176
VTP-F50-241	1 1/4	31.75	1	25.4	2	50.8	1	25.4	5006-1177
VTP-F50-341	1 1/4	31.75	1	25.4	2 1/4	57.15	1 1/8	28.57	5006-1178
VTP-F50-441	1 1/2	31.75	1 1/4	25.4	2 3/4	57.15	1 3/8	28.75	5006-1179



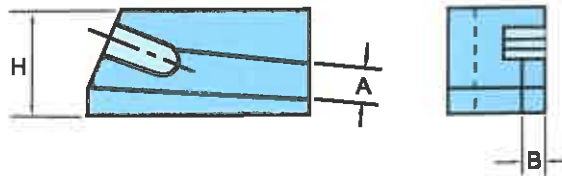
# Quick Change Tool Post American Type



## MORSE TAPER HOLDER FOR DRILLING

ORDER NO.	C		h		M.T	CODE NO.
	INCH	MERTIC	INCH	MERTIC		
VTP-F50-105	1 1/2	38.1	3/4	19.5	2	5006-1191
VTP-F50-205	1 3/4	44.45	7/8	22.225	2	5006-1192
VTP-F50-305	2	50.8	1	25.4	3	5006-1193
VTP-F50-405	2 1/2	63.5	1 1/4	31.75	3	5006-1194
VTP-F50-153	1 1/2	38.1	3/4	19.05	3	5006-1195
VTP-F50-253	1 3/4	44.45	7/8	22.22	3	5006-1196
VTP-F50-353	2 1/8	53.97	1 1/16	26.98	4	5006-1197
VTP-F50-453	2 3/8	60.32	1 3/16	30.16	4	5006-1198

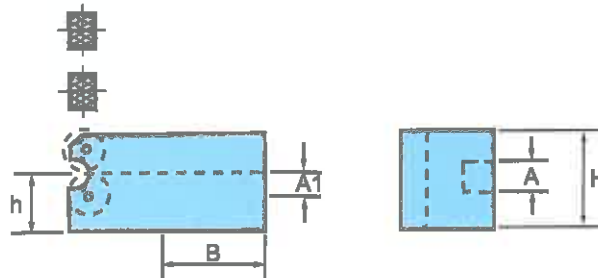
Allows to install a dead center serve as a tail stock.  
Suitable for drilling & boring & reaming.



## UNIVERSAL PARTING BLADE TOOL HOLDER

ORDER NO.	A		B		H		CODE NO.
	INCH	MERTIC	INCH	MERTIC	INCH	MERTIC	
VTP-F50-107	1/2	12.7	3/16	4.76	1 1/2	38.1	5006-1211
VTP-F50-207	11/16	17.46	3/16	4.76	1 3/4	44.45	5006-1212
VTP-F50-307	3/4	19.05	3/16	4.76	2	50.8	5006-1213
VTP-F50-407	7/8	22.23	1/4	6.35	2 1/2	63.5	5006-1214
VTP-F50-507	1 3/16	30.16	1/4	6.35	2 3/4	69.85	5006-1215

Suitable for cutting tool.



## KNURLING, TURNING & FACING HOLDER

ORDER NO.	A		A1		B		H		h		CODE NO.
	INCH	MERTIC	INCH	MERTIC	INCH	MERTIC	INCH	MERTIC	INCH	MERTIC	
VTP-F50-110	1/2	12.7	3/8	9.53	2 1/2	63.5	1 9/16	39.68	7/8	22.22	5006-1221
VTP-F50-210	5/8	15.87	1/2	12.7	2 5/8	66.67	1 3/4	44.45	1	25.4	5006-1222
VTP-F50-310	3/4	19.05	1/2	12.7	3 1/8	79.37	2	50.8	1 3/16	30.16	5006-1223
VTP-F50-410	1	25.4	3/4	19.05	3 3/4	95.25	2 1/2	63.5	1 7/16	36.51	5006-1224
VTP-F50-510	1 1/4	31.75	1	25.4	4 1/2	114.3	3 1/8	79.37	1 7/8	47.62	5006-1225

Suitable for knurling, facing & boring.