

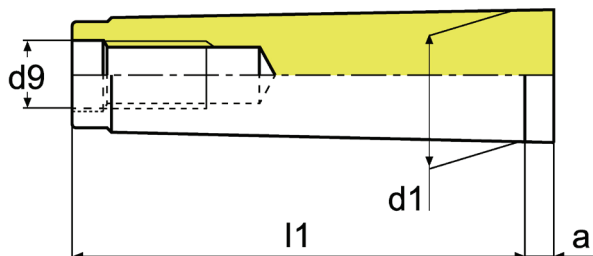


# **CONO MORSE DIN/228-A/B**

**PROGRAMA**

3

						
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PAG. 22	PAG. 22	PAG. 23	PAG. 23	PAG. 24	PAG. 24	



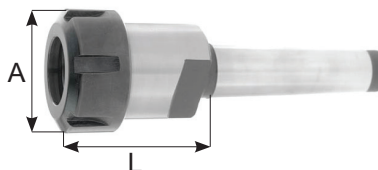
Morse	d1	a	d9 (1)	l1
<b>CM1</b>	12.065	3.5	M 6	53.5
<b>CM2</b>	17.780	5	M10	64
<b>CM3</b>	23.825	5	M12	81
<b>CM4</b>	31.267	6.5	M16	102.5
<b>CM5</b>	44.399	6.5	M20	129.5



**DIN/228-A**

Porta pinzas cono morse STANDARD  
Collet chucks cono morse STANDARD

**TUERCA STANDARD**



\*Compatible con tuercas hexagonales

REFERENCIA	CAP	L	A
CM1L25ER11 *	1 ÷ 7	25	19
CM1L40ER16 *	1 ÷ 10	40	28
CM2L42ER16 *		42	
CM2L50ER20 *	1 ÷ 14	50	34
CM2L54ER25	1 ÷ 20	54	42
CM3L53ER25		53	
CM4L56ER25		56	
CM2L59ER32	2 ÷ 22	59	50
CM3L70ER32		70	
CM4L60ER32		60	
CM5L50ER32		50	
CM3L80ER40	3 ÷ 30	80	63
CM4L81ER40		81	
CM5L82ER40		82	
CM4L96ER50	6 ÷ 34	96	78
CM5L91ER50		91	

Estuche porta pinzas cono morse  
Straight shank collet chuck kit

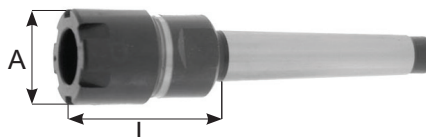


REFERENCIA	PINZAS	LLAVE	PORTA PINZAS
BCM2L54ER25	Ø2 a Ø16 x 1mm (15 unidades)	CH25S	CM2L54ER25
BCM3L53ER25			CM3L53ER25
BCM2L59ER32	Ø3 ÷ Ø20 x 1mm (18 unidades)	CH32S	CM2L59ER32
BCM3L70ER32			CM3L70ER32
BCM4L60ER32			CM4L60ER32
BCM3L80ER40	Ø4 ÷ Ø26 x 1mm (23 unidades)	CH40S	CM3L80ER40
BCM4L81ER40			CM4L81ER40

**DIN/228-A**

Porta pinzas con morse tuerca MINI  
Collet chucks con morse MINI

**TUERCA MINI**



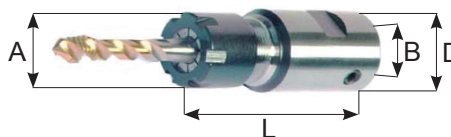
Compatible con tuerca mini hexagonal

REFERENCIA	CAP	L	A
CM1L25ER11M	1 ÷ 7	25	16
CM1L40ER16M	1 ÷ 10	40	22
CM2L42ER16M		42	
CM3L43ER16M		43	
CM2L50ER20M	1 ÷ 14	50	28
CM3L47ER20M		47	
CM2L54ER25M	1 ÷ 20	54	35
CM3L58ER25M		58	

**DIN/238**

Porta pinzas DIN238 tuerca MINI  
Collet chucks DIN238 with MINI nut

**TUERCA MINI**



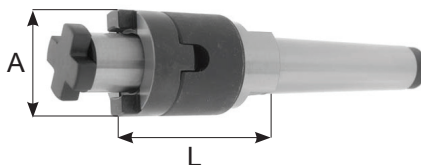
REFERENCIA	L	A	D	B
B12L63ER11M	63	16	25	12.06
B12L55ER16M	55	22	25	12.06
B16L85ER16M	85	22	25	15.73
B12L67ER20M	67	28	25	12.06
B16L80ER20M	80	28	25	15.73
B18L74ER20M	74	28	28	17.78

ERI Tooling Systems

## PORTA FRESAS

DIN/228A

Porta fresas combinado cono morse  
Combi shell end mill holders



REFERENCIA	L	A
CM3L48D16C	48	16
CM3L48D22C	48	22
CM3L48D27C	48	27
CM3L63D32C	63	32
CM4L55D16C	55	16
CM4L55D22C	55	22
CM4L55D27C	55	27
CM4L55D32C	55	32
CM5L75D22C	75	22
CM5L75D27C	75	27
CM5L75D32C	75	32
CM5L75D40C	75	40

ERI Tooling Systems

## PORTA BROCAS DIN/238

DIN/238

Porta brocas gran apriete de Alta Precisión DIN/238  
High precision keyless drill chucks DIN/238



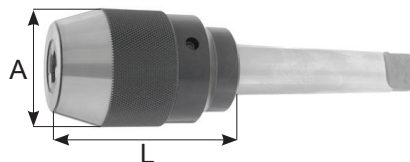
± 0.05 mm  
Precisión



REFERENCIA	CAP	B
DCK8.B10SP	1 ÷ 8	10
DCK10.B10SP	1 ÷ 10	
DCK8.B12SP	1 ÷ 8	12
DCK10.B12SP	1 ÷ 10	
DCK13.B12SP	1 ÷ 13	16
DCK10.B16SP	1 ÷ 10	
DCK13.B16SP	1 ÷ 13	18
DCK16.B16SP	3 ÷ 16	
DCK16.B18SP	3 ÷ 16	

**DIN/228-B**

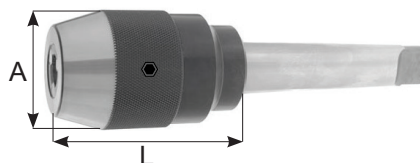
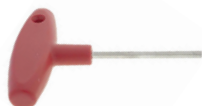
**Porta brocas integral llave gancho - Rotacion Derecha**  
*Integrated drill chucks - Right Spin*



REFERENCIA	CAP	L	A
CM2L86DCK13	1 ÷ 13	86	50
CM3L86DCK13		86	
CM4L87DCK13		87	
CM3L90DCK16	3 ÷ 16	90	57
CM4L91DCK16		91	

**DIN/228-B**

**Porta brocas gran apriete integral llave hexagonal**  
**Rotacion Derecha e Izquierda**  
*Integrated drill chucks - Right and Left Spin key Exagonal*



REFERENCIA	CAP	L	A
CM2L87DCU13	1 ÷ 13	87	50
CM3L87DCU13		87	
CM4L88DCU13		88	
CM3L92DCU16	3 ÷ 16	92	56
CM4L94DCU16		94	

**Tetón para cono morse**  
*Removable tangs for morse taper*



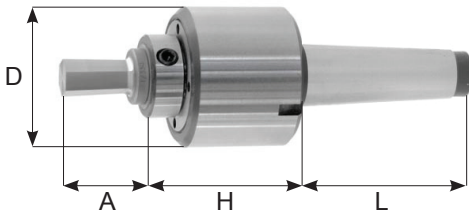
REFERENCIA	MORSE	METRICA (M)
TAG1M6	1	M6
TAG2M10	2	M10
TAG3M12	3	M12
TAG4M16	4	M16
TAG5M20	5	M20

ERI Tooling Systems

## PORTA BROCHAS CONO MORSE

DIN/228-B

Porta brochas cono morse  
Rotating broach toolholder



BCH



REFERENCIA	D	H	L	A	*BCH
CM2L69BCH8	32	38	69	18	8
CM2L69BCH12	44	46	69	25	12
CM3L85BCH16	58	76	85	40	16
CM4L109BCH16	58	76	109	40	16

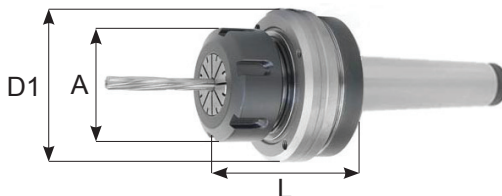
ERI Tooling Systems

## PORTA ESCARIADOR FLOTANTE

DIN/228-A

Porta escariador flotante cono morse ER - DIN 6499  
Floating reamer holders with ER - DIN 6499

± 1 mm  
± 1.5 mm  
Flotación



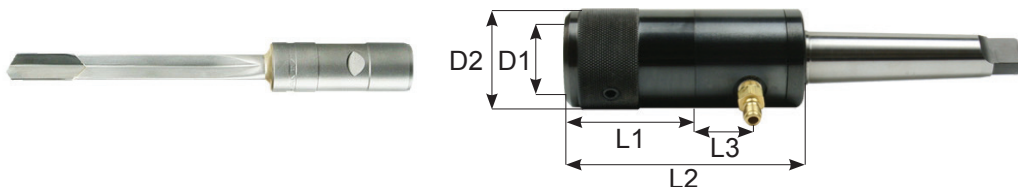
Coolant

REFERENCIA	CM	PINZA	CAP	FLOT	A	L	D1
CM2L40RM11R	2	ER11	1 ÷ 7	± 1 mm	22	40	42
CM3L40RM11R	3						
CM2L44RM16R	2	ER16	1 ÷ 10	± 1 mm	28	44	42
CM3L44RM16R	3						
CM2L50RM20R	2	ER20	1 ÷ 14	± 1 mm	34	50	50
CM3L50RM20R	3						
CM2L53RM25R	2	ER25	1 ÷ 20	± 1 mm	42	53	57
CM3L53RM25R	3						
CM3L58RM32R	3	ER32	2 ÷ 22	± 1.5 mm	50	58	69
CM4L58RM32R	4						
CM3L64RM40R	3	ER40	3 ÷ 30	± 1.5 mm	63	64	79
CM4L64RM40R	4						



**DIN/228-B**

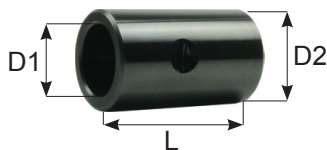
Dispositivo rotativo con morse de Lubricación Central  
*Rotating oil-feed holders*  
**Distribuidor Rotativo con morse**



REFERENCIA	CM	D1	L1	L2	D2	L3
EVT516/1	1	16	40	89	32	24
EVT525/2	2	25	50	113	46	31
EVT525/3	3	25	50	113	46	31
EVT535/4	4	35	60	123	58	28

**Casquillo Reductor**  
*Reduction sleeves*

**Condiciones de Trabajo**  
*Using coolant*

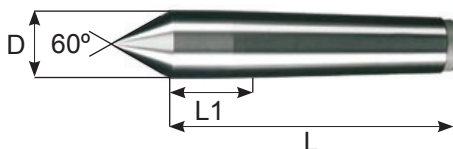


REFERENCIA	FAM	D1	D2	L
EVT25/16	15	16	25	50
EVT25/20		20	25	50
EVT35/25		25	35	60

Ø	PRESION	RPM
16	Hasta 4 BAR	6740
	Max 17 BAR	2000
25	Hasta 5 BAR	4600
	Max 17 BAR	1350
35	Hasta 5 BAR	2700
	Max 17 BAR	850

Punto cono morse de Acero  
*Steel type morse taper shank tailstocks*

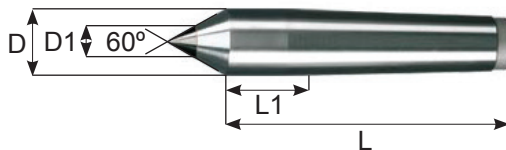
**60°**



REFERENCIA	D	L1	L
CM1L80D12A	12	26	80
CM2L100D18A	18	36	100
CM3L125D24A	24	44	125
CM4L160D32A	32	57	160
CM5L200D45A	45	70	200

Punto cono morse punta de Metal Duro  
Morse taper shank tailstock with solid carbide

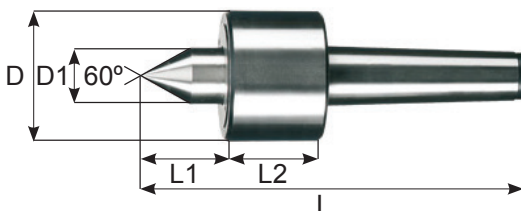
**60°**



REFERENCIA	D1	D	L1	L
CM1L80D12W	7	12	26	80
CM2L100D18W	7	18	36	100
CM3L125D24W	11	24	44	125
CM4L160D32W	14	32	57	160
CM5L200D45W	18	45	70	200

Punto rotativo cono morse - Tipo Standard  
Morse taper shank rotary tailstocks - Type Standard

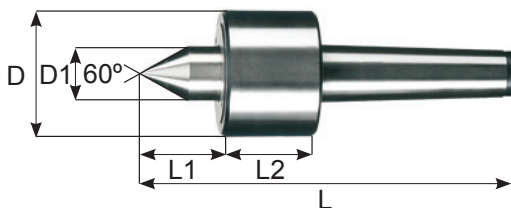
**60°**



REFERENCIA	D	D1	L1	L2	L	Rpm max	Kg. Max
CM1L114D10RS	36	15	17	43	114	7000	100
CM2L129D18RS	45	20	24	41	129	7000	200
CM3L160D23RS	60	25	31	48	160	5000	500
CM4L205D25RS	70	32	41	61	205	3800	800
CM5L258D38RS	90	40	50	78	258	3000	2000

Punto rotativo cono morse - Tipo A - Doble Esfera  
Morse taper shank rotary tailstocks - Type A - Double spheres

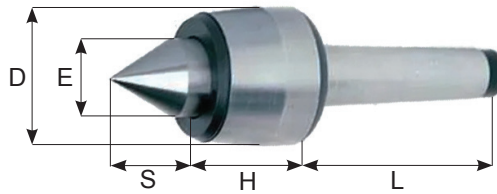
**60°**



REFERENCIA	D	D1	L1	L2	L	Rpm max	Kg. Max
CM2L126D18RD	32	15	20	42	144	6000	200
CM3L144D23RD	34	15	20	43	175	6000	400
CM4L178D25RD	43	20	26	50	205	6000	800
CM5L234D38RD	58	30	39	66	267	4000	1200

**DIN/228-B**

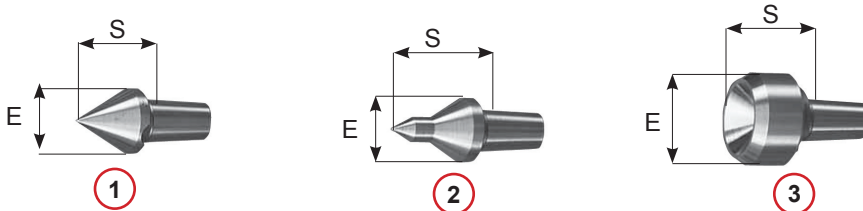
**Punto Rotativo Cono morse**  
*Revolving Tailstock Cono morse*



*Nota: El punto Rotativo cono morse incluye la (Figura.1 E14S16.60°)*  
*Note: The rotary cono morse point includes the (Figure.1 E14S16.60°)*

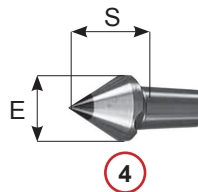
REFERENCIA	D	E	H	L	S
CM2L69D14F	32	14	44	69	16

**Recambios para Punto Rotativo cono morse**  
*Interchangeable insert cono morse*



REFERENCIA	E	S	G	F	S	FIG
E14S16.60°	14	16	-	-	60°	1
E14S22.90°	14	22	-	-	90°	1
E14S22.60°	14	22	7	-	60°	2
E14S26.60°	14	26	8	-	60°	2
E20S12.60°	20	12	12	10	60°	3

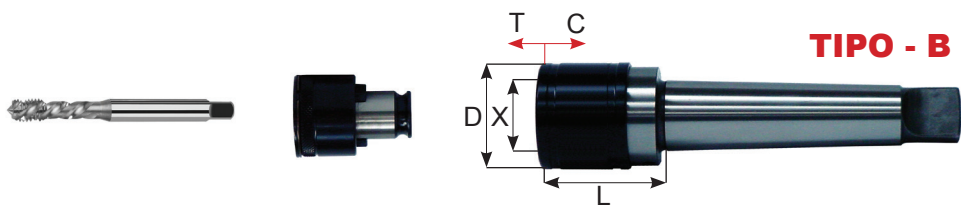
**Recambios para Punto Rotativo Cono morse con punta de metal duro**  
*Interchangeable cono morse insert with hard metal*



REFERENCIA	E	S	G	F	S	FIG
E14S16.60°HM	14	16	6	-	60°	4

**DIN/228-B**

**Roscador Cono Morse con compresión y tracción**  
*Quick change tapping chucks Traccion / Compression*



REFERENCIA	CAP	CM	X	D	L	C	T
CM2B-THTC1-L47 CM3B-THTC1-L47	M 3 ÷ M12	CM2 CM3	19	36	47	7.5	7.5
CM3B-THTC2-L71 CM4B-THTC2-L72	M 8 ÷ M20	CM3 CM4	31	53	71 72	12.5	12.5
CM4B-THTC3-L105 CM5B-THTC3-L105	M14 ÷ M33	CM4 CM5	48	78	105	20	20
CM5B-THTC4-L117	M22 ÷ M48	CM5	60	96	117	22.5	22.5

**DIN/228-A** (On request)

**LINEA  
TRANSFER**

**Roscador rígido Cono Morse**  
*Quick change tapping chucks Rigid*

**DIN/228-B**

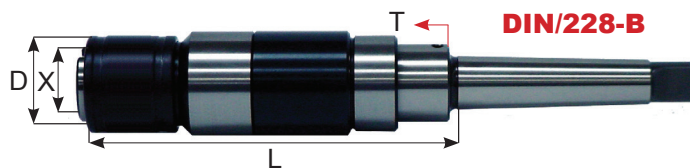


REFERENCIA	CAP	CM	X	D	L
CM1B-TLR0-L39 CM2B-TLR0-L40	M 1 ÷ M10	CM1 CM2	13	23	39 40
CM1B-TLR1-L43 CM2B-TLR1-L44 CM3B-TLR1-L44	M 3 ÷ M12	CM1 CM2 CM3	19	32	43 44 44
CM2B-TLR2-L61 CM3B-TLR2-L61 CM4B-TLR2-L62	M 8 ÷ M20	CM2 CM3 CM4	31	50	61 61 62
CM3B-TLR3-L90 CM4B-TLR3-L91	M14 ÷ M33	CM3 CM4	48	72	90 91
CM4B-TLR4-L110 CM5B-TLR4-L109	M22 ÷ M48	CM4 CM5	60	95	110 109

**Rosgador rígido Cono Morse con compensación Axial en tracción**  
*Quick change tapping chucks with length compensation Axial in Tracción*

3

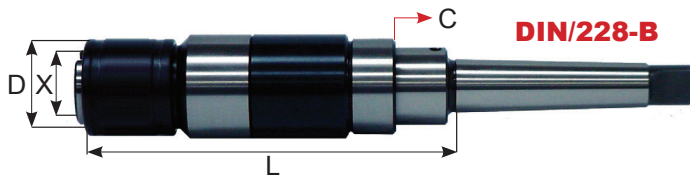
**LINEA  
TRANSFER**



REFERENCIA	CAP	CM	X	D	L	T
CM1B-TLT0-30	M 1 ÷ M10	CM1	13	23	91	30
CM2B-TLT0-30		CM2			92	30
CM1B-TLT1-40		CM1			113	40
CM2B-TLT1-40	M 3 ÷ M12	CM2	19	35	114	40
CM3B-TLT1-40		CM3			114	40
CM2B-TLT2-40		CM2			138	40
CM3B-TLT2-40	M 8 ÷ M20	CM3	31	50	138	40
CM4B-TLT2-40		CM4			139	40
CM3B-TLT3-30		CM3			184	40
CM4B-TLT3-40	M14 ÷ M33	CM4	48	72	185	40
CM4B-TLT4-60		CM4			229	60
CM5B-TLT4-60	M22 ÷ M48	CM5	60	95	230	60

**Rosgador rígido Cono Morse con compensación Axial en compresión**  
*Quick change tapping chucks with length compensation Axial in Compression*

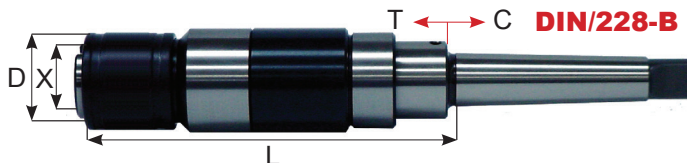
**LINEA  
TRANSFER**



REFERENCIA	CAP	CM	X	D	L	C
CM1B-TLC0-20	M 1 ÷ M10	CM1	13	23	101	20
CM1B-TLC0-30		CM1			121	30
CM2B-TLC0-20		CM2			102	20
CM2B-TLC0-30		CM2			122	30
CM1B-TLC1-30	M 3 ÷ M12	CM1	19	35	133	30
CM1B-TLC1-40		CM1			153	40
CM2B-TLC1-30		CM2			134	30
CM2B-TLC1-40		CM2			154	40
CM3B-TLC1-30		CM3			134	30
CM3B-TLC1-40		CM3			154	40
CM2B-TLC2-30	M 8 ÷ M20	CM2	31	50	151	30
CM2B-TLC2-40		CM2			171	40
CM3B-TLC2-30		CM3			151	30
CM3B-TLC2-40		CM3			171	40
CM4B-TLC2-30		CM4			166	30
CM4B-TLC2-40		CM4			186	40
CM3B-TLC3-30	M14 ÷ M33	CM3	48	72	197	30
CM3B-TLC3-40		CM3			217	40
CM4B-TLC3-30		CM4			197	30
CM4B-TLC3-40		CM4			217	40
CM4B-TLC4-60	M22 ÷ M48	CM4	60	95	289	60
CM5B-TLC4-60		CM5			290	60

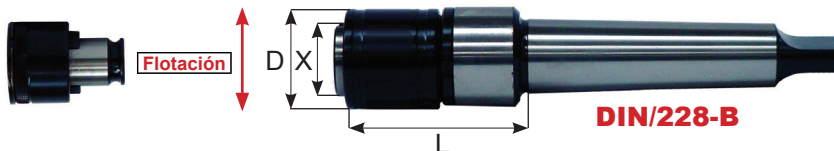
**Roscador rígido Cono Morse con compensación Axial / compresión y tracción**  
*Quick change tapping chucks with compesation Axial Tracción/Compression*

3



REFERENCIA	CAP	CM	X	D	L	C	T
CM1B-TLTC0-20/10	M 1 ÷ M10	CM1	13	23	111	20	10
CM1B-TLTC0-15/15		CM1			106	15	15
CM2B-TLTC0-20/10		CM2			112	20	10
CM2B-TLTC0-15/15		CM2			107	15	15
CM1B-TLTC1-30/10	M 3 ÷ M12	CM1	19	35	143	30	10
CM1B-TLTC1-20/20		CM1			133	20	20
CM2B-TLTC1-30/10		CM2			144	30	30
CM2B-TLTC1-20/20		CM2			134	20	20
CM3B-TLTC1-30/10	M 8 ÷ M20	CM3	31	50	144	30	10
CM3B-TLTC1-20/20		CM3			134	20	20
CM2B-TLTC2-30/10		CM2			168	30	10
CM2B-TLTC2-20/20		CM2			158	20	20
CM3B-TLTC2-30/10	M 14 ÷ M33	CM3	48	72	168	30	10
CM3B-TLTC2-20/20		CM3			158	20	20
CM4B-TLTC3-30/10		CM4			169	30	10
CM4B-TLTC3-20/20		CM4			159	20	20
CM3B-TLTC3-30/10	M25 ÷ M48	CM3	60	95	214	30	10
CM3B-TLTC3-20/20		CM3			204	20	20
CM4B-TLTC3-30/10		CM4			215	30	10
CM4B-TLTC3-20/20		CM4			205	20	20
CM4B-TLTC4-40/20	M25 ÷ M48	CM4	60	95	269	40	20
CM4B-TLTC4-30/30		CM4			259	30	30
CM5B-TLTC4-40/20		CM5			270	40	20
CM5B-TLTC4-30/30		CM5			260	30	30

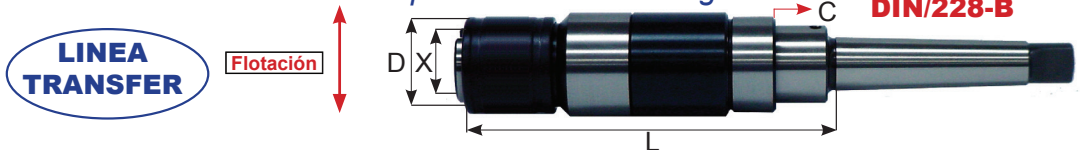
**Roscador rígido Cono Morse y flotación Radial**  
*Quick change tapping chucks / Radial floating - Rigid*



REFERENCIA	CAP	CM	X	D	FLOT	L
CM1B-TLRP0-L59	M 1 ÷ M10	CM1	13	23	0.75	59
CM2B-TLRP0-L60		CM2			0.25	60
CM1B-TLRP1-L64	M 3 ÷ M12	CM1	19	32	0.5	64
CM2B-TLRP1-L65		CM2				65
CM3B-TLRP1-L65	M 8 ÷ M20	CM3	31	50	1.0	65
CM2B-TLRP2-L91		CM2				91
CM3B-TLRP2-L91		CM3				91
CM4B-TLRP2-L92		CM4				92
CM3B-TLRP3-L131	M14 ÷ M33	CM3	48	72	1.5	131
CM4B-TLRP3-L132		CM4				132
CM5B-TLRP3-L133	M22 ÷ M48	CM5	60	95	2.0	133
CM4B-TLRP4-L161		CM4				161
CM5B-TLRP4-L162		CM5				162

**Rosgador rígido Cono Morse con compensación Axial en compresión y Flotación Radial**  
*Quick change tapping chucks with length compensation in Compression and Floating Radial*

3



REFERENCIA	CAP	CM	X	D	FLOT	C
CM1B-TLCP0-20	M 1 ÷ M10	CM1	13	23	0.25	20
CM1B-TLCP0-30		CM1				30
CM2B-TLCP0-20	M 3 ÷ M12	CM2	19	35	0.50	20
CM2B-TLCP0-30		CM2				30
CM1B-TLCP1-30	M 3 ÷ M12	CM1	19	35	0.50	30
CM1B-TLCP1-40		CM1				40
CM2B-TLCP1-30	M 3 ÷ M12	CM2	19	35	0.50	30
CM2B-TLCP1-40		CM2				40
CM3B-TLCP1-30	M 8 ÷ M20	CM3	31	50	1.00	30
CM3B-TLCP1-40		CM3				40
CM2B-TLCP2-30	M 8 ÷ M20	CM2	31	50	1.00	30
CM2B-TLCP2-40		CM2				40
CM3B-TLCP2-30	M 8 ÷ M20	CM3	31	50	1.00	30
CM3B-TLCP2-40		CM3				40
CM4B-TLCP2-30	M 14 ÷ M33	CM4	48	72	1.50	30
CM4B-TLCP2-40		CM4				40
CM3B-TLCP3-30	M 14 ÷ M33	CM3	48	72	1.50	30
CM3B-TLCP3-40		CM3				40
CM4B-TLCP3-30	M 14 ÷ M33	CM4	48	72	1.50	30
CM4B-TLCP3-40		CM4				40
CM4B-TLCP4-60	M 22 ÷ M48	CM4	60	95	2.00	60
CM5B-TLCP4-60		CM5				60

**Rosgador rígido Cono Morse con compensación Axial en tracción y flotación Radial**

*Quick change tapping chucks with length compensation in traction and Floating Radial*

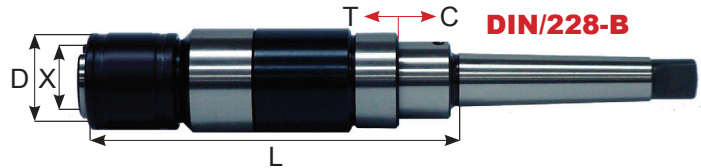


REFERENCIA	CAP	CM	X	D	FLOT	T
CM1B-TLTP0-30	M 1 ÷ M10	CM1	13	23	0.25	30
CM2B-TLTP0-30		CM2				30
CM1B-TLTP1-40	M 3 ÷ M12	CM1	19	35	0.50	40
CM2B-TLTP1-40		CM2				40
CM3B-TLTP1-40	M 8 ÷ M20	CM3	31	50	1.00	40
CM2B-TLTP2-40		CM2				40
CM3B-TLTP2-40	M 8 ÷ M20	CM3	31	50	1.00	40
CM4B-TLTP2-40		CM4				40
CM3B-TLTP3-30	M 14 ÷ M33	CM3	48	72	1.50	40
CM4B-TLTP3-40		CM4				40
CM4B-TLTP4-60	M 22 ÷ M48	CM4	60	95	2.00	60
CM5B-TLTP4-60		CM5				60

**Rosgador rígido Cono Morse con compensación Axial en compresión y tracción y flotación Radial**

*Quick change tapping chucks with length compensation in Traccion / Compression and Floating Radial*

3



REFERENCIA	CAP	CM	X	D	L	FLOT	C	T	
CM1B-TLTCP0-20/10	M 1 ÷ M10	CM1	13	23	111	0.25	20	10	
CM1B-TLTCP0-15/15		CM1			106				15
CM2B-TLTCP0-20/10		CM2			112				20
CM2B-TLTCP0-15/15		CM2			107				15
CM1B-TLTCP1-30/10	M 3 ÷ M12	CM1	19	35	143	0.50	30	10	
CM1B-TLTCP1-20/20		CM1			133				20
CM2B-TLTCP1-30/10		CM2			144				30
CM2B-TLTCP1-20/20		CM2			134				20
CM3B-TLTCP1-30/10	M 8 ÷ M20	CM3	31	50	144	1.00	30	10	
CM3B-TLTCP1-20/20		CM3			134				20
CM2B-TLTCP2-30/10		CM2			168				30
CM2B-TLTCP2-20/20		CM2			158				20
CM3B-TLTCP2-30/10	M14 ÷ M33	CM3	48	72	168	1.25	30	10	
CM3B-TLTCP2-20/20		CM3			158				20
CM4B-TLTCP2-30/10		CM4			169				30
CM4B-TLTCP2-20/20		CM4			159				20
CM3B-TLTCP3-30/10	M25 ÷ M48	CM3	60	95	214	2.00	40	20	
CM3B-TLTCP3-20/20		CM3			204				30
CM4B-TLTCP3-30/10		CM4			215				30
CM4B-TLTCP3-20/20		CM4			205				20
CM4B-TLTCP4-40/20		CM4			269		40	20	
CM4B-TLTCP4-30/30		CM4			259				30
CM5B-TLTCP4-40/20		CM5			270				40
CM5B-TLTCP4-30/30		CM5			260				30

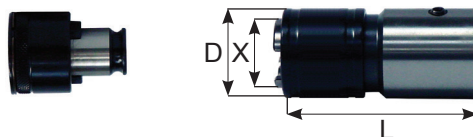




**Roscador rígido cono DIN/238**  
Quick change tapping chucks / Rigid

**LINEA TRANSFER**

**DIN/238**

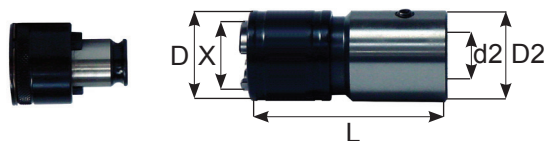


**B**  
Cónica

REFERENCIA	CAP	B	X	D	L
B10-TLR0-L51	M 1 ÷ M10	B10	13	23	51
B12-TLR0-L55		B12			55
B12-TLR1-L59	M 3 ÷ M12	B12	19	32	59
B16-TLR2-L84	M 8 ÷ M20	B16	31	50	84
B18-TLR2-L92		B18			92
B22-TLR3-L126		B22			126
B24-TLR3-L136	M14 ÷ M33	B24	48	72	136

**Roscador rígido**  
Quick change tapping chucks / Rigid

**LINEA TRANSFER**



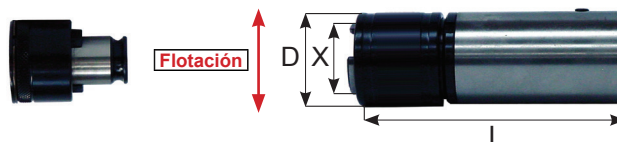
Conexión Cilíndrica

REFERENCIA	CAP	X	d2	D2	D	L
D16-TLR2-L86.5	M 8 ÷ M20	31	16	44.8	50	86.5
D25-TLR2-L103			25	44.8	50	103
D25-TLR3-L124.5	M14 ÷ M33	48	25	67.4	72	124.5
D35-TLR4-L139	M22 ÷ M48	60	35	84	92	139

**Roscador rígido cono DIN/238 con flotación Radial**  
Quick change tapping chucks / Radial floating - Rigid

**LINEA TRANSFER**

**DIN/238**



**B**  
Cónica

REFERENCIA	CAP	B	X	D	L	FLOT
B10-TLRP0-L72	M 1 ÷ M10	B10	13	23	72	0.25
B12-TLRP0-L76		B12			76	
B12-TLRP1-L79	M 3 ÷ M12	B12	19	32	79	
B16-TLRP1-L85		B16			85	
B18-TLRP1-L95		B18			95	
B16-TLRP2-L112	M 8 ÷ M20	B16	31	50	112	1
B18-TLRP2-L119		B18			119	
B22-TLRP2-L129		B22			129	
B22-TLRP3-L165	M14 ÷ M33	B22	48	72	165	1.5
B24-TLRP3-L175		B24			175	

**Rosgador rígido DIN/238 con compensación Axial en compresión**  
*Quick change tapping DIN/238 chucks with length compesation Axial in Compression*

3

**LINEA  
TRANSFER**  
**DIN/238**



**B**  
Cónica

REFERENCIA	CAP	B	X	D	L	C
B10-TLC0-20	M 1 ÷ M10	B10	13	23	117	20
B10-TLC0-30		B10			137	30
B12-TLC0-20		B12			121	20
B12-TLC0-30		B12			141	30
B12-TLC1-30	M 3 ÷ M12	B12	19	35	127	30
B12-TLC1-40		B12			147	40
B16-TLC1-30		B16			127	30
B16-TLC1-40		B16			147	40
B18-TLC1-30	M 8 ÷ M20	B18	31	50	142	30
B18-TLC1-40		B18			162	40
B16-TLC2-30		B16			151	30
B16-TLC2-40		B16			171	40
B18-TLC2-30	M 14 ÷ M33	B18	48	72	151	30
B18-TLC2-40		B18			171	40
B22-TLC2-30		B22			166	30
B22-TLC2-40		B22			186	40
B22-TLC3-30	M14 ÷ M33	B22	48	72	197	30
B22-TLC3-40		B22			217	40
B24-TLC3-30		B24			197	30
B24-TLC3-40		B24			217	40

**Rosgador rígido DIN/238 con compensación Axial en tracción**  
*Quick change tapping DIN/238 chucks with length compesation Axial in traccion*

**LINEA  
TRANSFER**  
**DIN/238**



**B**  
Cónica

REFERENCIA	CAP	B	X	D	L	T
B10-TLT0-30	M 1 ÷ M10	B10	13	23	107	30
B12-TLT0-30		B12			111	30
B16-TLT1-40	M 3 ÷ M12	B16	19	35	135	40
B18-TLT1-40		B18			148	40
B18-TLT2-40	M 8 ÷ M20	B18	31	50	168	40
B22-TLT2-40		B22			177	40
B22-TLT3-40	M14 ÷ M33	B22	48	72	221	40
B24-TLT3-40		B24			231	40

**Roscador rígido DIN/238 con compensación Axial en tracción y compresión**  
*Quick change tapping DIN/238 chucks with length compensation Axial in traction*

**LINEA TRANSFER**  
**DIN/238**

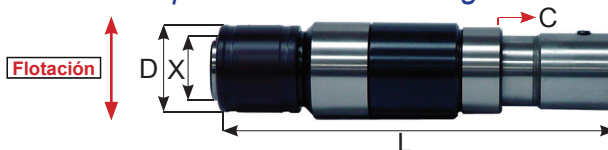


**B**  
 Cónica

REFERENCIA	CAP	B	X	D	L	C	T
B10-TLTC0-20/10	M 1 ÷ M10	B10	13	23	127	20	10
B10-TLTC0-15/15		B10			122	15	15
B12-TLTC0-20/10		B12			131	20	10
B12-TLTC0-15/15		B12			126	15	15
B16-TLTC1-30/10	M 3 ÷ M12	B16	19	35	165	30	10
B16-TLTC1-20/20		B16			155	20	20
B18-TLTC1-30/10		B18			178	30	10
B18-TLTC1-20/20		B18			168	20	20
B18-TLTC2-30/10	M 8 ÷ M20	B18	31	50	198	30	10
B18-TLTC2-20/20		B18			188	20	20
B22-TLTC2-30/10		B22			207	30	10
B22-TLTC2-20/20		B22			197	20	20
B22-TLTC3-30/10	M14 ÷ M33	B22	48	72	251	30	10
B22-TLTC3-20/20		B22			241	20	20
B24-TLTC3-30/10		B24			161	30	10
B24-TLTC3-20/20		B24			251	20	20

**Roscador rígido con compensación Axial en compresión y flotación Radial**  
*Quick change tapping chucks with length compensation in Compression and Floating Radial*

**LINEA TRANSFER**  
**DIN/238**



**B**  
 Cónica

REFERENCIA	CAP	B	X	D	L	FLOT	C
B10-TLCP0-20	M 1 ÷ M10	B10	13	23	139	0.25	20
B10-TLCP0-20		B10			159		30
B12-TLCP0-30		B12			143		20
B12-TLCP0-30		B12			163		30
B12-TLCP1-30	M 3 ÷ M12	B12	19	35	142	0.50	30
B12-TLCP1-40		B12			162		40
B16-TLCP1-30		B16			142		30
B16-TLCP1-40		B16			162		40
B18-TLCP1-30	M 8 ÷ M20	B16	31	50	157	1.00	30
B18-TLCP1-40		B18			162		40
B16-TLCP2-30		B16			176		30
B16-TLCP2-40		B16			196		40
B18-TLCP2-30	M 14 ÷ M33	B18	48	72	176	1.50	30
B18-TLCP2-40		B18			196		40
B22-TLCP2-30		B22			212		30
B22-TLCP2-40		B22			232		40
B22-TLCP3-30	M14 ÷ M33	B22	48	72	252	1.50	40
B22-TLCP3-40		B22			232		30
B24-TLCP3-30		B24			252		40
B24-TLCP3-40		B24			252		40

**Roscador rígido DIN/238 con compensación Axial en tracción y flotación Radial**

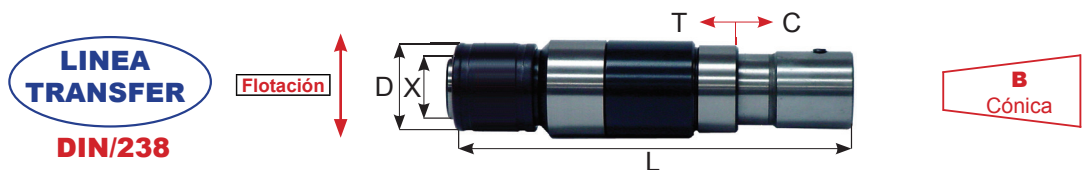
*Quick change tapping chucks with length compensation in Traccion and Floating Radial*



REFERENCIA	CAP	B	X	D	L	FLOT	T
B10-TLTP0-30	M 1 ÷ M10	B10	13	23	129	0.25	30
B12-TLTP0-30		B12			133		30
B16-TLTP1-40	M 3 ÷ M12	B16	19	35	150	0.50	40
B18-TLTP1-40		B18			163		40
B18-TLTP2-40	M 8 ÷ M20	B18	31	50	194	1.00	40
B22-TLTP2-40		B22			203		40
B22-TLTP3-40	M14 ÷ M33	B22	48	72	256	1.50	40
B24-TLTP3-40		B24			266		40

**Roscador rígido DIN/238 con compensación Axial en compresión / tracción y flotación Radial**

*Quick change tapping chucks with length compensation in Compression / Traccion and Floating Radial*



REFERENCIA	CAP	B	X	D	L	FLOT	C	T
B10-TLTCP0-20/10	M 1 ÷ M10	B10	13	23	149	0.25	20	10
B10-TLTCP0-15/15		B10			144		15	15
B12-TLTCP0-20/10		B12			153		20	10
B12-TLTCP0-15/15		B12			148		15	15
B16-TLTCP1-30/10	M 3 ÷ M12	B16	19	35	180	0.50	30	10
B16-TLTCP1-20/20		B16			170		20	20
B18-TLTCP1-30/10		B18			193		30	10
B18-TLTCP1-20/20	M 8 ÷ M20	B18	31	50	183	1.00	20	20
B18-TLTCP2-30/10		B18			224		30	10
B18-TLTCP2-20/20		B18			214		20	20
B22-TLTCP2-30/10		B22			233		30	10
B22-TLTCP2-20/20	M14 ÷ M33	B22	48	72	223	1.50	20	20
B22-TLTCP3-30/10		B22			286		30	10
B22-TLTCP3-20/20		B22			276		20	20
B24-TLTCP3-30/10		B24			296		30	10
B24-TLTCP3-20/20	B24	286	20	20				

**Roscador automático con Inversión de Giro**  
*Tapping attachments with automatic reversal*



REFERENCIA	M	X	CM
HRF-2	M3 - M12	19	CM3
HRF-4	M14 - M30	48	CM4

**Kit Roscador automático con Inversión de Giro**  
*Kit Tapping attachments with automatic reversal*



**REFERENCIA**

**KIT HRF2 (M3-M12)**  
 7 - SES-1 + REDUCTOR

**Roscador automático con Inversión de Giro SERIE ECONOMICA**  
*Tapping attachments with automatic reversal ECONOMIC SERIES*



REFERENCIA	M	X	CM
TCNF-1	M3 - M12	19	CM2

**DIN/6329**

Cono pinza para broca  
*Mt collets for twist drills*



REFERENCIA	DESCRIPCIÓN	CAP	D	L
CM0BROCA	CM0 - BROCA	1.5 ÷ 5.5	9.0	59.5
CM1BROCA	CM1 - BROCA	1.5 ÷ 10.0	12.2	65.5
CM2BROCA	CM2 - BROCA	3.0 ÷ 15.0	18.0	80.0
CM3BROCA	CM3 - BROCA	8.0 ÷ 20.0	24.0	99.0
CM4BROCA	CM4 - BROCA	12.0 ÷ 25.0	31.5	124.0
CM5BROCA	CM5 - BROCA	20.0 ÷ 36.0	44.5	156.2

**DIN/6328**

Cono pinza para macho  
*Mt collets for milling cutters*



REFERENCIA	DESCRIPCIÓN	CAP	D	L
CM0MACHO	CM0 - MACHO	2.5 ÷ 4.5	9.0	59.5
CM1MACHO	CM1 - MACHO	2.5 ÷ 10.0	12.2	65.5
CM2MACHO	CM2 - MACHO	4.5 ÷ 14.0	18.0	80.0
CM3MACHO	CM3 - MACHO	8.0 ÷ 18.0	24.0	99.0
CM4MACHO	CM4 - MACHO	12.0 ÷ 25.0	31.5	124.0
CM5MACHO	CM5 - MACHO	18.0 ÷ 36.0	44.5	156.2

**DIN/317**

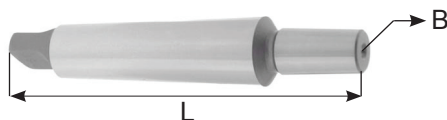
Cuña  
*Cone ejectors*



REFERENCIA	L	S
CUÑACM0	90	2
CUÑACM1	140	5
CUÑACM2	140	5
CUÑACM3	190	7
CUÑACM4	225	10
CUÑACM5	265	15

**DIN/238**

**Reductor cono morse DIN/238**  
*Morse taper adapters to DIN/238*



REFERENCIA	CM	B	L
CM1B10	1	10	83
CM1B12		12	89
CM1B16		16	99
CM1B18		18	99
CM2B10	2	10	105
CM2B12		12	106
CM2B16		16	112
CM2B18		18	119
CM2B22	3	22	130
CM3B12		12	125
CM3B16		16	134
CM3B18		18	140
CM3B22	4	22	147
CM4B12		12	152
CM4B16		16	156
CM4B18		18	164
CM4B22	5	22	176
CM4B24		24	186
CM5B16		16	190
CM5B18		18	204
CM5D22	5	22	213
CM5B24		24	221

**DIN/2185**

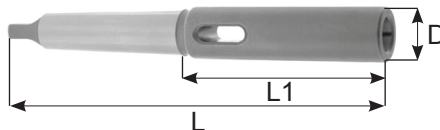
**Reductor a cono Morse - Morse**  
*Morse taper adapters*



REFERENCIA	CM Exterior	CM Interior	L
BR1-0	1	0	80
BR2-1	2	1	92
BR3-1	3	1	99
BR3-2		2	112
BR4-1	4	1	124
BR4-2		2	124
BR4-3		3	140
BR5-1	5	1	156
BR5-2		2	156
BR5-3		3	156
BR5-4		4	171
BR6-2	6	2	218
BR6-3		3	218
BR6-4		4	218
BR6-5		5	218

**DIN/2187**

**Reductor largo Cono Morse**  
*Extended morse taper adapters*



3

REFERENCIA	CM Exterior	CM Interior	L	Lt	D
BRL1-1	1	1	83	145	20
BRL1-2		2	98	160	30
BRL2-1	2	1	85	160	20
BRL2-2		2	100	175	30
BRL2-3		3	121	196	36
BRL3-1	3	1	81	175	20
BRL3-2		2	100	194	30
BRL3-3		3	121	215	36
BRL3-4		4	146	240	48
BRL4-1	4	1	82.5	200	20
BRL4-2		2	97.5	215	30
BRL4-3		3	122.5	240	36
BRL4-4		4	147.5	265	48
BRL4-5		5	182.5	300	63
BRL5-1	5	1	82.5	232	20
BRL5-2		2	97.5	247	30
BRL5-3		3	118.5	268	36
BRL5-4		4	150.5	300	48
BRL5-5		5	185.5	335	63
BRL6-3	6	3	120	330	36
BRL6-4		4	145	335	48
BRL6-5		5	180	390	63

**Cono limpiador Interno**  
*Spindle taper wipers*



REFERENCIA	MODELO
TCL1MT	CM1
TCL2MT	CM2
TCL3MT	CM3
TCL4MT	CM4
TCL5MT	CM5