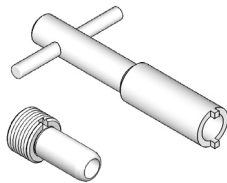


INDICE DELL' ATTACCO DIN 69893 - HSK "E"

INDEX OF DIN 69893 - HSK "E" SHANK

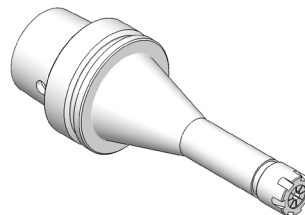
ADDUTTORI PER REFRIGERANTE COOLANT TUBES



Programma
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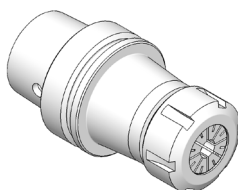
PORTAPINZA ER CON GHIERA MINI ER-DIN 6499 COLLET CHUCKS WITH MINI NUT



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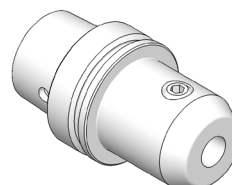
PORTAPINZA ER CON GHIERA STANDARD ER-DIN 6499 COLLET CHUCKS WITH STANDARD NUT



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completo
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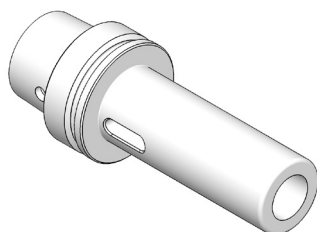
PORTAFRESE WELDON END MILL HOLDERS FOR DIN 1835-B SHANKS



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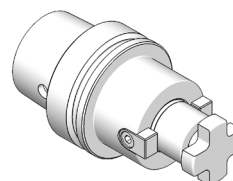
RIDUZIONI A CONO MORSE ADAPTERS TO MORSE TAPER



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a pag.

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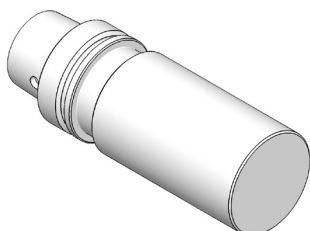
PORTAFRESE FISSI DIN 6357 FACE MILL HOLDERS



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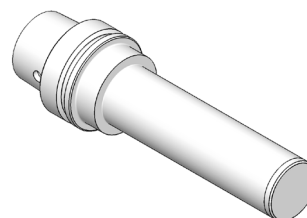
BARRE A STELO TENERO BLANK BARS



Programma
completo
a pag.

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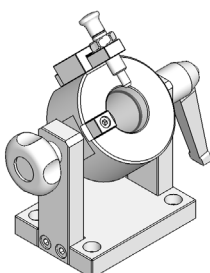
BARRE DI CONTROLLO TEST ARBORS



Programma
completo
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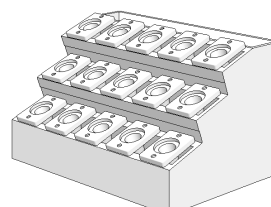
SUPPORTI DI MONTAGGIO TIGHTENING FIXTURES



Programma
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MAGAZZINI PORTACONI TOOL STORES

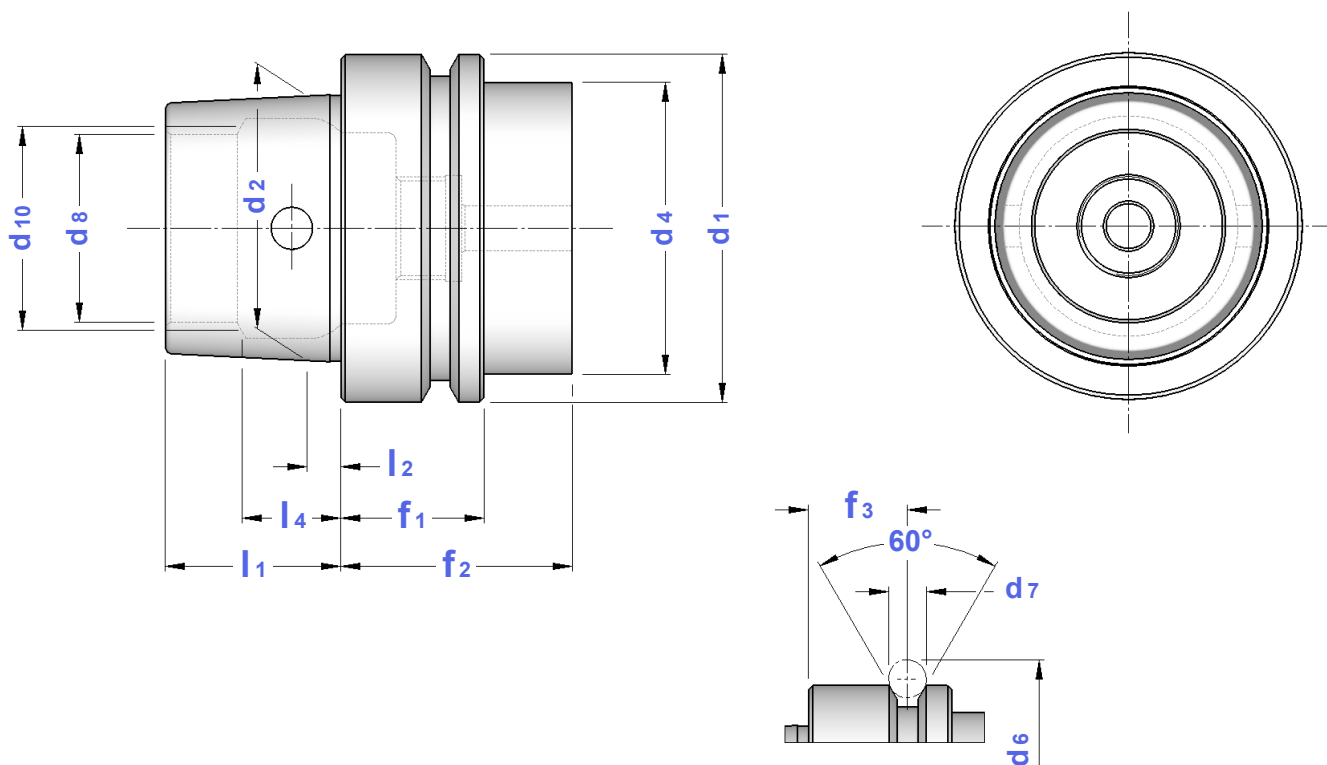


Programma
completo
a pag.

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CARATTERISTICHE TECNICHE DIN 69893 - HSK E

DIN 69893 - HSK E STANDARD FEATURES



CONO	d1	d2	d4	d6	d7	d8	d10	f1	f2	f3	l1	l2	l4	OR
HSK 40 E	40	30	34	45,0	4	21	23	20	35	16	20	4,0	11,42	6976
HSK 50 E	50	38	42	59,3	7	26	29	26	42	18	25	5,0	14,13	6977
HSK 63 E	63	48	53	72,3	7	34	37	26	42	18	32	6,3	18,13	6978

ADDUTTORI PER REFRIGERANTE

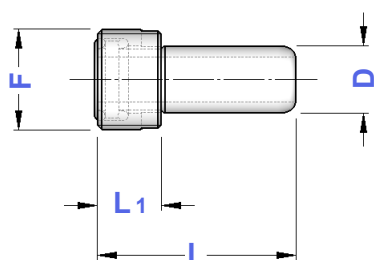
COOLANT TUBES



OR
O-RING



CHIAVE
WRENCH



TIPO	Art.	F	D	L	L1	OR	CHIAVE
HSK 32 E	0413	M 10 x 1	6	26,0	5,5	5668	0470
HSK 40 E	0414	M 12 x 1	8	29,3	7,5	5672	0471
HSK 50 E	0415	M 16 x 1	10	33,0	9,5	5673	0472
HSK 63 E	0416	M 18 x 1	12	36,6	11,5	5674	0473

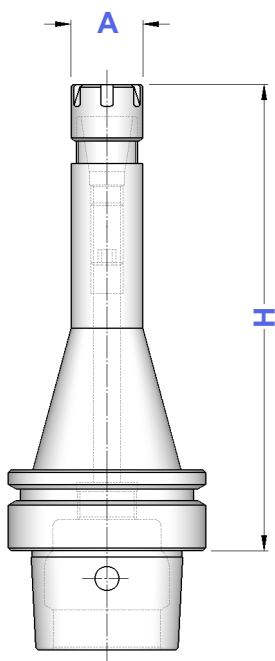
HSK E

PORTAPINZA ER - GHIERA MINI

ER - DIN 6499 COLLET CHUCKS WITH MINI NUT

Balanced G 2,5

20.000 rpm



TIPO	Art.	A	CAPACITA'			
HSK 40 E - ER 16 GM/H 70	6500	22	1 ÷ 10	1229	5719	0364
HSK 40 E - ER 16 GM/H 120	6502					
HSK 40 E - ER 25 GM/H 80	6508	35	1 ÷ 16	1231	5721	0996
HSK 40 E - ER 25 GM/H 120	6510					
HSK 50 E - ER 16 GM/H 80	6512	22	1 ÷ 10	1229	5719	0364
HSK 50 E - ER 16 GM/H 100	6513					
HSK 50 E - ER 16 GM/H 150	6514					
HSK 50 E - ER 25 GM/H 150	6520	35	1 ÷ 16	1231	5721	0996
HSK 63 E - ER 16 GM/H 90	6521	22	1 ÷ 10	1229	5719	0364
HSK 63 E - ER 16 GM/H 160	6523					

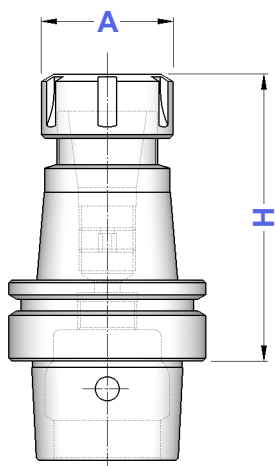
HSK E

PORTAPINZE ER - GHIERA STANDARD

ER - DIN 6499 COLLET CHUCKS WITH STANDARD NUT

Balanced G 2,5

20.000 rpm



TIPO	Art.	A	CAPACITA'			
HSK 50 E - ER 16/H 100	6533	32	1 ÷ 10	4993	3698	0364
HSK 50 E - ER 16/H 160	6534					
HSK 50 E - ER 20/H 100	6535	35	1 ÷ 13	4994	3699	0787
HSK 50 E - ER 20/H 160	6536					
HSK 50 E - ER 25/H 100	6537	42	1 ÷ 16	4995	3669	0996
HSK 50 E - ER 25/H 160	6538					
HSK 50 E - ER 32/H 100	6539	50	2 ÷ 20	4996	3670	0988
HSK 50 E - ER 32/H 160	6541					
HSK 50 E - ER 40/H 100	6542	63	3 ÷ 30	4997	3671	0821
HSK 63 E - ER 16/H 75	6528	32	1 ÷ 10	4993	3698	0364
HSK 63 E - ER 16/H 100	6530					
HSK 63 E - ER 16/H 160	6531					
HSK 63 E - ER 25/H 75	6543	42	1 ÷ 16	4995	3669	0996
HSK 63 E - ER 25/H 100	6544					
HSK 63 E - ER 25/H 160	6551					
HSK 63 E - ER 32/H 75	6545	50	2 ÷ 20	4996	3670	0988
HSK 63 E - ER 32/H 100	6546					
HSK 63 E - ER 32/H 160	6548					
HSK 63 E - ER 40/H 80	6550	63	3 ÷ 30	4997	3671	0821
HSK 63 E - ER 40/H 120	6552					
HSK 63 E - ER 40/H 160	6553					



Balanced G 2,5
20.000 rpm

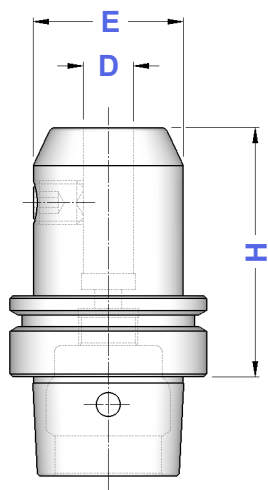


Figura 1

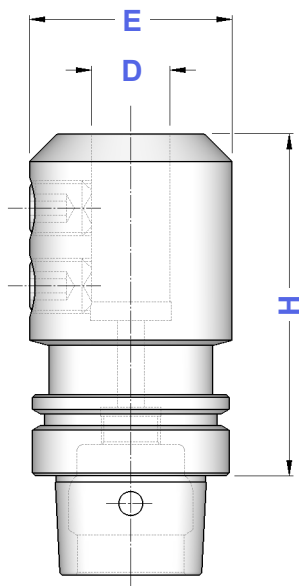


Figura 2

TIPO	Art.	D	H	E	Fig.	
HSK 50 E - WE 6 / H 65	6616	6	65	25	1	4970
HSK 50 E - WE 8 / H 65	6619	8	65	28	1	4971
HSK 50 E - WE 10 / H 65	6622	10	65	35	1	4972
HSK 50 E - WE 12 / H 80	6625	12	80	42	1	4973
HSK 50 E - WE 14 / H 80	6628	14	80	44	1	4973
HSK 50 E - WE 16 / H 80	6631	16	80	48	1	4974
HSK 50 E - WE 18 / H 80	6634	18	80	50	1	4974
HSK 50 E - WE 20 / H 80	6637	20	80	52	1	4975
HSK 50 E - WE 25 / H 105	6640	25	105	65	2	4976
HSK 63 E - WE 6 / H 65	6643	6	65	25	1	4970
HSK 63 E - WE 8 / H 65	6646	8	65	28	1	4971
HSK 63 E - WE 10 / H 70	6649	10	70	35	1	4972
HSK 63 E - WE 12 / H 80	6652	12	80	42	1	4973
HSK 63 E - WE 14 / H 80	6655	14	80	44	1	4973
HSK 63 E - WE 16 / H 80	6658	16	80	48	1	4974
HSK 63 E - WE 18 / H 80	6661	18	80	50	1	4974
HSK 63 E - WE 20 / H 80	6664	20	80	52	1	4975
HSK 63 E - WE 25 / H 105	6667	25	105	65	2	4976
HSK 63 E - WE 32 / H 110	6670	32	110	72	2	4977

**Dove trovare questi Articoli
nel Catalogo Generale**

*Where to find those Items
on General Catalogue*



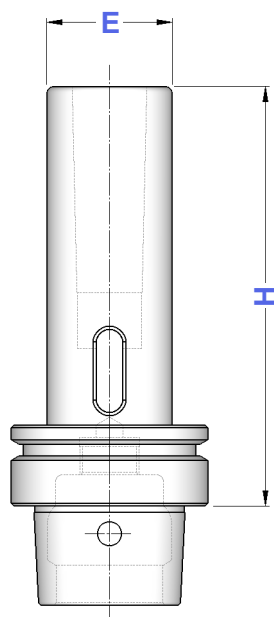
Grani di bloccaggio - pag. 197
Locking screws - page 197

HSK E

RIDUZIONI A CONO MORSE PER PUNTE

MORSE TAPER ADAPTERS FOR TWIST DRILLS DIN 228 FORM B SHANK

Balanced G 6,3
8.000 rpm



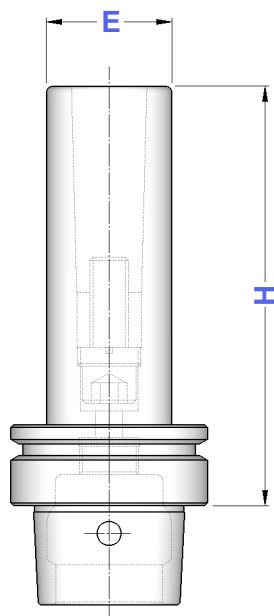
TIPO	Art.	CM	H	E
HSK 50 E - CM 1 PUNTE	6802	1	100	25
HSK 50 E - CM 2 PUNTE	6803	2	120	32
HSK 50 E - CM 3 PUNTE	6804	3	140	40
HSK 63 E - CM 1 PUNTE	6805	1	100	25
HSK 63 E - CM 2 PUNTE	6806	2	120	32
HSK 63 E - CM 3 PUNTE	6807	3	140	40
HSK 63 E - CM 4 PUNTE	6808	4	165	48

HSK E

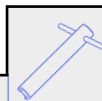
RIDUZIONI A CONO MORSE PER FRESE

MORSE TAPER ADAPTERS FOR MILLING CUTTERS DIN 228 FORM A SHANK

Balanced G 6,3
8.000 rpm



TIPO	Art.	CM	H	E	
HSK 50 E - CM 1 FRESE	6817	1	105	25	—
HSK 50 E - CM 2 FRESE	6818	2	120	32	4569
HSK 50 E - CM 3 FRESE	6819	3	140	40	4570
HSK 63 E - CM 1 FRESE	6820	1	100	25	—
HSK 63 E - CM 2 FRESE	6821	2	125	32	4569
HSK 63 E - CM 3 FRESE	6822	3	145	40	4570
HSK 63 E - CM 4 FRESE	6823	4	165	48	4571

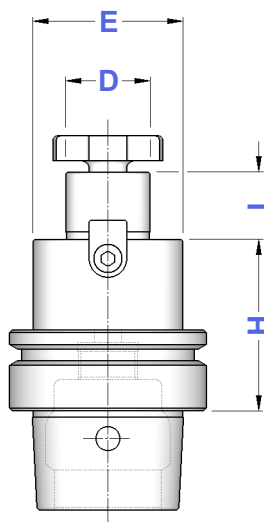


HSK E

PORTAFRESE FISSI DIN 6357 FACE MILL HOLDERS

Balanced G 6,3

15.000 rpm



TIPO	Art.	D	L	E		
HSK 40 E - D. 16 FISSO/ H 45	6850	16	17	38	4985	4562
HSK 40 E - D. 22 FISSO/ H 50	6851	22	19	48	4986	4563
HSK 40 E - D. 27 FISSO/ H 55	6852	27	21	58	4987	4564
HSK 50 E - D. 16 FISSO/ H 50	6853	16	17	38	4985	4562
HSK 50 E - D. 22 FISSO/ H 60	6855	22	19	48	4986	4563
HSK 50 E - D. 27 FISSO/ H 60	6857	27	21	58	4987	4564
HSK 50 E - D. 32 FISSO/ H 60	6859	32	24	66	4988	4565
HSK 50 E - D. 40 FISSO/ H 70	6860	40	27	80	4989	4566
HSK 63 E - D. 16 FISSO/ H 50	6861	16	17	38	4985	4562
HSK 63 E - D. 16 FISSO/ H 100	6862					
HSK 63 E - D. 22 FISSO/ H 50	6863	22	19	48	4986	4563
HSK 63 E - D. 22 FISSO/ H 100	6864					
HSK 63 E - D. 27 FISSO/ H 55	6865	27	21	58	4987	4564
HSK 63 E - D. 27 FISSO/ H 100	6866					
HSK 63 E - D. 32 FISSO/ H 60	6867	32	24	66	4988	4565
HSK 63 E - D. 32 FISSO/ H 100	6868					
HSK 63 E - D. 40 FISSO/ H 65	6869	40	27	80	4989	4566
HSK 63 E - D. 40 FISSO/ H 100	6870					

Dove trovare questi Articoli nel Catalogo Generale

Where to find those Items
on General Catalogue



Viti testa a croce - pag. 194

Cross head screws - page 194



Chiavi per testa a croce - pag. 194

Wrenches for cross head - page 194



Tasselli - pag. 195

Dowels - page 195

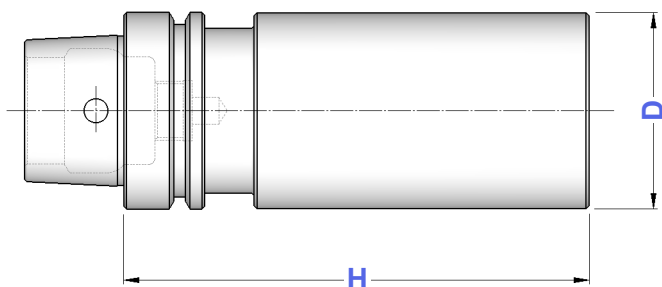


Viti tassello - pag. 198

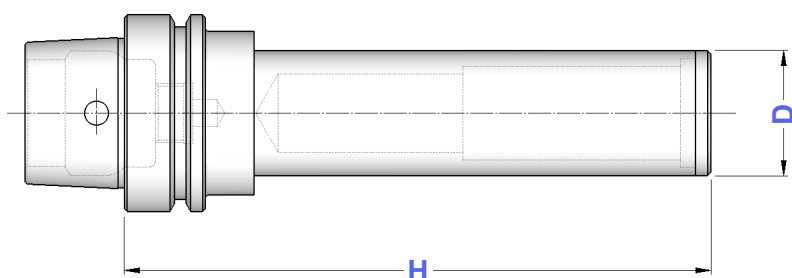
Dowel screws - page 198

**HSK
E****BARRE A STELO TENERO**
BLANK BARS**HSK**

TIPO	Art.	H	D
HSK 50 E - D. 63	6946	200	63
HSK 63 E - D. 63	6947	200	63

**HSK
E****BARRE DI CONTROLLO**
TEST ARBORS

TIPO	Art.	H	D
HSK 40 E - D. 32 SC	6940	300	32
HSK 50 E - D. 40 SC	6941	300	40
HSK 63 E - D. 40 SC	6942	390	40

**Tolleranze della barra**

- Rettilinearità = 0,003
- Rotondità in rotazione = 0,003
- Cilindricità = 0,003

Bars tolerance

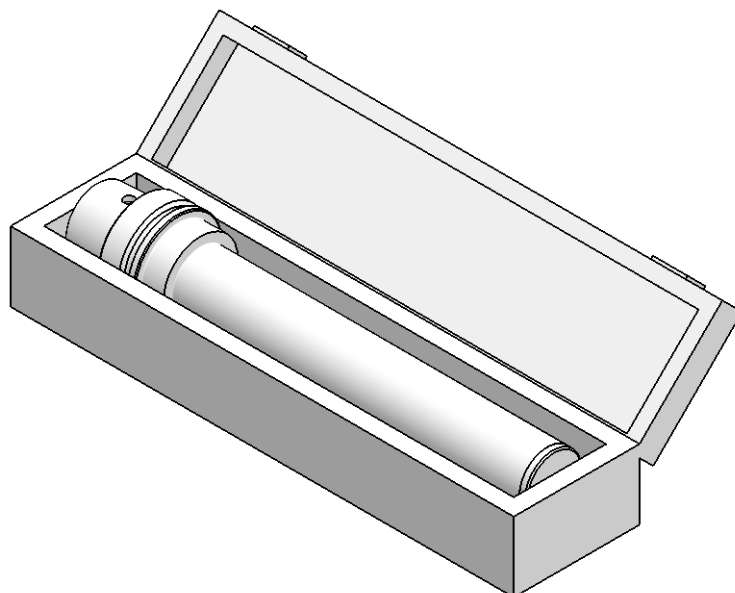
- Straightness = 0,003
- Runout accuracy = 0,003
- Cylindricity = 0,003

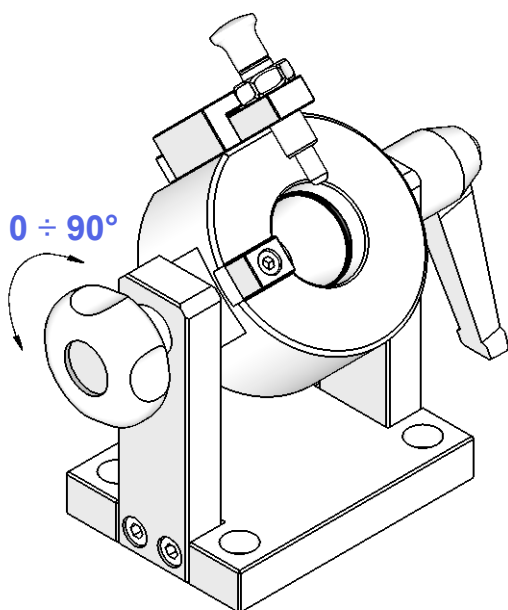
Dati costruttivi

- Costruite in acciaio da cementazione certificato
- Cementate con profondità 0,4 - 0,5 mm
- Temprate, rinvenute, brunate
- Durezza HRC 58 $\pm$ 2, resistenza 800-1000 N/mm²
- Finitura di rettifica esterna
- Collaudate 100% con strumenti di misura certificati

Constructive Features

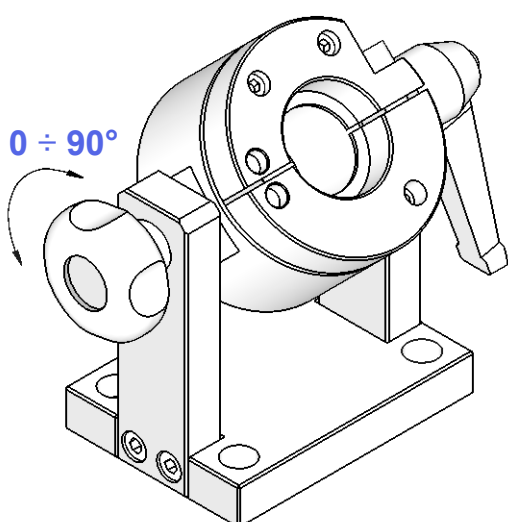
- Manufactured with casehardening steel
- Casehardened with depth 0,4 - 0,5 mm
- Hardened, tempered, black oxidized
- Hardness HRC 58 $\pm$ 2, strength 800-1000 N/mm²
- External grinding finish
- Tested 100% with certified measuring instruments





ISO DIN 2080 - DIN 69871 - BT ISO SHANKS

TIPO	Art.	L x P x H			
SMU - CONO 30	4438	135 x 100 x 155	1031	1032	1033
SMU - CONO 40	4439				
SMU - CONO 45	4440				
SMU - CONO 50	4441				



HSK DIN 69893 (A+C - B+D - E - F) HSK DIN 69893 SHANKS

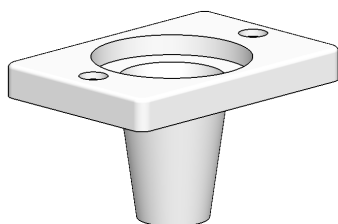
TIPO	Art.	L x P x H		
SMU - HSK 25	4598	135 x 100 x 175	1032	1033
SMU - HSK 32	4599			
SMU - HSK 40	4600			
SMU - HSK 50	4601			
SMU - HSK 63	4602			
SMU - HSK 80	4603	135 x 100 x 205		
SMU - HSK 100	4604			

POLYGON-SHANK (ISO 26623-1) - KM POLYGON and KM SHANKS

TIPO	Art.	L x P x H		
SMU - KM 25	4598	135 x 100 x 175	1032	1033
SMU - KM 32 - PSC 32	4599			
SMU - KM 40 - PSC 40	4600			
SMU - KM 50 - PSC 50	4601			
SMU - KM 63 - PSC 63	4602			
SMU - KM 80 - PSC 80	4603	135 x 100 x 205		
SMU - KM 100 - PSC 100	4604			

SUPPORTI

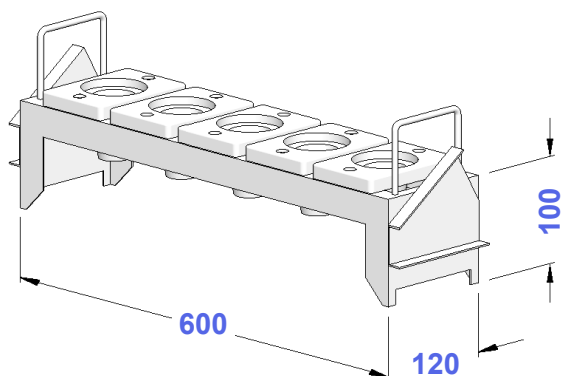
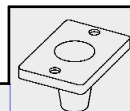
BOCCOLE PLASTIC BUSHES



TIPO	Art.	
BOCCOLA ISO 30	4416	0033
BOCCOLA ISO 40	4417	0033
BOCCOLA ISO 45	4418	0033
BOCCOLA ISO 50	4419	0033
BOCCOLA HSK 50 - KM 50 - PSC 50	4430	0033
BOCCOLA HSK 63 - KM 63 - PSC 63	4431	0033
BOCCOLA HSK100 - KM 100 - PSC 100	5543	0033
BOCCOLA CM 4	4400	0033
BOCCOLA CM 5	4418	0033
BOCCOLA Ø 32 - VDI 30	5531	0033
BOCCOLA Ø 40 - VDI 40	5532	0033
BOCCOLA Ø 50 - VDI 50	5533	0033

SUPPORTI

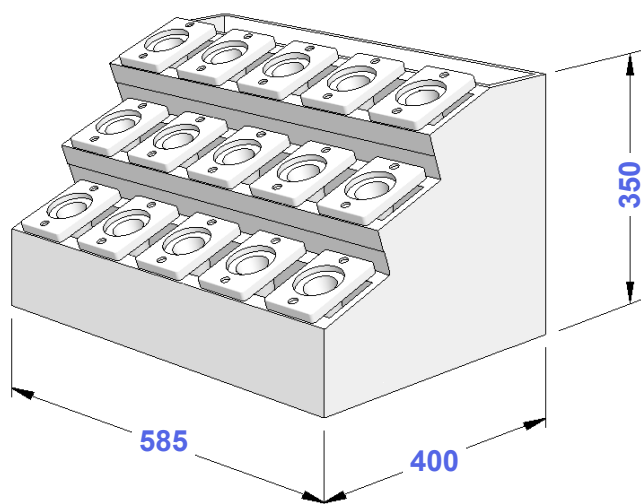
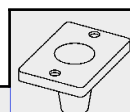
UNITA' DA BANCO BENCH UNITIES



TIPO	Art.	N° SEDI	
UNITA' ISO 30	4404	6	4416
UNITA' ISO 40	4405	6	4417
UNITA' ISO 45	4330	6	4418
UNITA' ISO 50	4406	5	4419
UNITA' HSK 50 - KM 50 - PSC 50	4428	6	4430
UNITA' HSK 63 - KM 63 - PSC 63	4429	6	4431
UNITA' HSK100 - KM 100 - PSC 100	4794	5	5543
UNITA' CM 4	4329	6	4400
UNITA' CM 5	4330	6	4418
UNITA' Ø 32 - VDI 30	5369	6	5531
UNITA' Ø 40 - VDI 40	5370	6	5532
UNITA' Ø 50 - VDI 50	5371	5	5533

SUPPORTI

MAGAZZINI PORTACONI TOOLS STORES



TIPO	Art.	N° SEDI	
MAG. ISO 30	3700	15	4416
MAG. ISO 40	3701	15	4417
MAG. ISO 45	3702	15	4418
MAG. ISO 50	3703	12	4419
MAG. HSK 50 - KM 50 - PSC 50	3750	15	4430
MAG. HSK 63 - KM 63 - PSC 63	3751	15	4431
MAG. HSK100 - KM 100 - PSC 100	3875	12	5543
MAG. CM 4	3696	15	4400
MAG. CM 5	3702	15	4418
MAG. Ø 32 - VDI 30	3705	15	5531
MAG. Ø 40 - VDI 40	3706	15	5532
MAG. Ø 50 - VDI 50	5557	12	5533