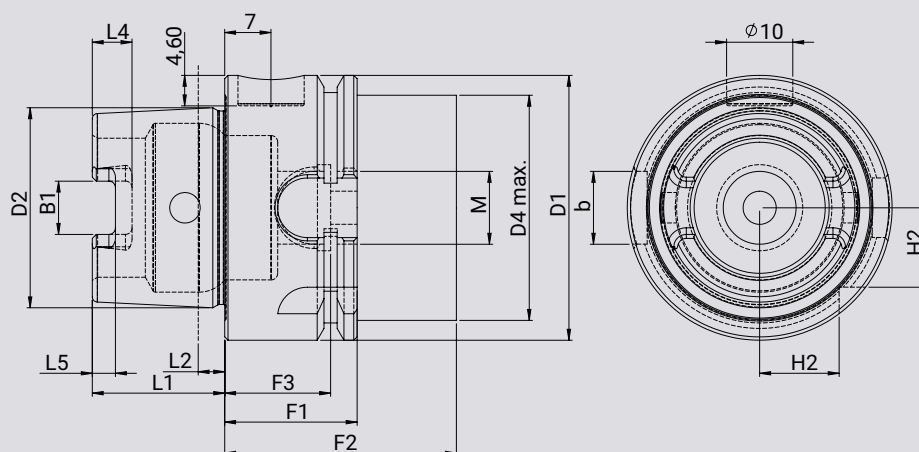


DIN 69893 HSK A





D1	D2	D4	L1	L2	L4	L5	M	F1	F2	F3	B1	b	H2
32	24	26	16	3,2	5,0	3,0	M10 x 1	20	35	16	7,05	9	9,5
40	30	34	20	4,0	6,0	3,5	M12 x 1	20	35	16	8,05	11	12,0
50	38	42	25	5,0	7,5	4,5	M16 x 1	26	42	18	10,54	14	15,5
63	48	53	32	6,3	10,0	6,0	M18 x 1	26	42	18	12,54	18	20,0
80	60	67	40	8,0	12,0	8,0	M20 x 1,5	26	42	18	16,04	20	25,0
100	75	85	50	10,0	15,0	10,0	M24 x 1,5	29	45	20	20,02	20	31,5

Tutti i mandrini portautensili PAGNONI TOOLS vengono prodotti secondo le normative DIN
 All PAGNONI TOOLS toolholders are manufactured according to DIN norms
 Alle PAGNONI TOOLS Aufnahme sind nach DIN Norm produziert
 Tous les mandrins porte-outils PAGNONI TOOLS sont produits suivant les specifications DIN

DATI TECNICI

PRE-BILANCIATI:

- Grado di equilibratura aggiuntiva indicato a fianco della tabella dimensionale
- Mandrini alte velocità: a richiesta classe massima di equilibratura G 2,5 30000

MATERIALI E TRATTAMENTI:

- Acciaio da cementazione legato
- Temprati-rinvenuti
- HRC 58 ± 2 – profondità di indurimento 0,4-0,5 mm
- Resistenza 800-1000 N/mm²
- Bruniti dopo trattamento termico
- Rettificati internamente e esternamente

TECHNISCHE DATEN

VORGEWUCHTET:

- Neben der Übersichtstabelle der Produkte wird die Wuchtgüte angegeben
- Hochgeschwindigkeits Werkzeughalter: Aus Wuchtgüte G2,5 30000 auf Anfrage

WERKSTOFF UND OBERFLÄCHENBEHANDLUNGEN:

- Legierter Einsatzstahl
- Gehärtet und angelassen
- Einsatzgehärtet HRC 58 ± 2 , Härtetiefe 0,4-0,5 mm
- Festigkeit 800-1000 N/mm²
- Brüniert nach wärmebehandlung
- Innen- und Außenschleifen

TECHNICAL FEATURES

PRE-BALANCED:

- Additional balancing grade beside dimensional table
- High-speed toolholders: balancing grade G 2,5 30000 on request

MATERIAL AND SURFACE TREATMENTS:

- Alloyed case-hardened steel
- Hardened-tempered
- Case hardened HRC 58 ± 2 - hardening depth 0,4-0,5 mm
- Strength 800-1000 N/mm²
- Black-finished after hardened
- Internal and external grinding

DONNE TECHNIQUES

PRÉ-ÉQUILIBRÉ:

- À côté du tableau de description et dimensions des produits il y a l'indication de la valeur d'équilibrage attentionnel
- Mandrins haute vitesse : sont équilibrés en classe G 2,5 à 30000 Tr/min-1 classe d'équilibrage maximale G 2,5 à 30000 Tr/min sur demande

MATÉRIAUX ET TRAITEMENTS:

- Acier de cémentation allié
- Temprés – Revenus
- Cémentation à HRC 58 ± 2 , profondeur de cémentation 0,4-0,5 mm
- Résistance 800-1000 N/mm²
- Bruni après traitement thermique
- Rectifié en interne et en externe



> PAG. 189



> PAG. 190



> PAG. 191



> PAG. 194



> PAG. 195



> PAG. 196



> PAG. 199



> PAG. 200



> PAG. 201



> PAG. 202



> PAG. 203



> PAG. 204



> PAG. 205



> PAG. 206



> PAG. 207



> PAG. 210



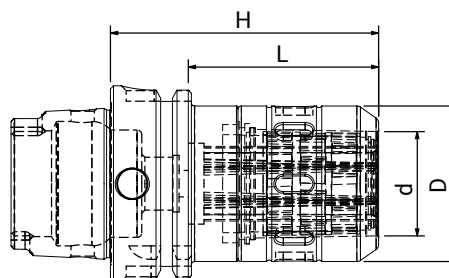
> PAG. 211



> PAG. 212



> PAG. 213

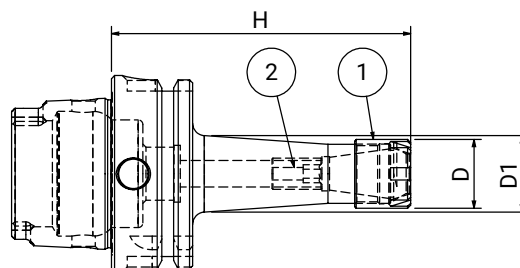


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65AFS112	HSK50/A	12	90	60	34	G6.3 12000
65AFS116	HSK50/A	16	90	60	42	G6.3 12000
65AFS120	HSK50/A	20	90	60	50	G6.3 12000
65AFS232	HSK50/A	32	110	80	63	G6.3 12000
66AFS112	HSK63/A	12	85	60	34	G6.3 12000
66AFS116	HSK63/A	16	85	60	42	G6.3 12000
66AFS120	HSK63/A	20	85	60	50	G6.3 12000
66AFS232	HSK63/A	32	110	84	63	G6.3 12000
66AFS332	HSK63/A	32	140	84	63	G6.3 12000
61AFS220	HSK100/A	20	105	60	50	G6.3 12000
61AFS320	HSK100/A	20	140	60	50	G6.3 12000
61AFS232	HSK100/A	32	115	80	63	G6.3 12000
61AFS332	HSK100/A	32	160	80	63	G6.3 12000

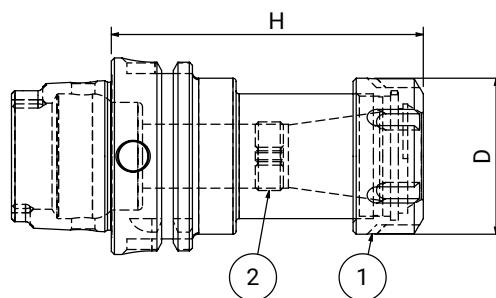
ACCESSORI | ACCESSORIES | ZUBEHÖR | ACCESSOIRES



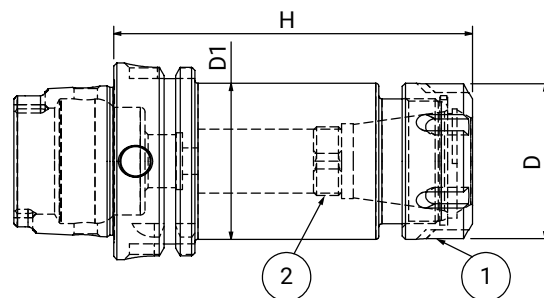
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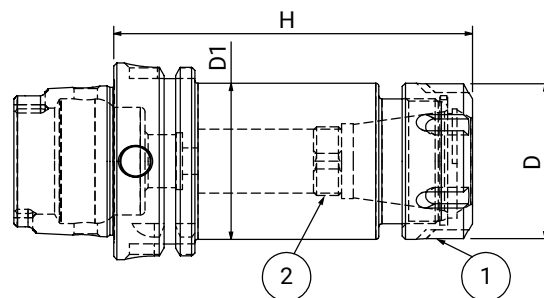
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65APM207	HSK50/A	ER11MINI	100	16	-	G6.3 15000	911GHRMN	100601004
65APM210	HSK50/A	ER16MINI	100	22	-	G6.3 15000	916GHRMN	101001601
65APM407	HSK50/A	ER11MINI	160	16	-	G6.3 15000	911GHRMN	100601004
65APM410	HSK50/A	ER16MINI	160	22	-	G6.3 15000	916GHRMN	101001601
66APM107	HSK63/A	ER11MINI	80	16	-	G6.3 15000	911GHRMN	100601004
66APM207	HSK63/A	ER11MINI	100	16	20	G6.3 15000	911GHRMN	100601004
66APM210	HSK63/A	ER16MINI	100	22	25	G6.3 15000	916GHRMN	101001601
66APM213	HSK63/A	ER20MINI	100	28	31	G6.3 15000	920GHRMN	101001601
66APM216	HSK63/A	ER25MINI	100	35	38	G6.3 15000	925GHRMN	101815801
66APM407	HSK63/A	ER11MINI	160	16	23	G6.3 15000	911GHRMN	100601004
66APM410	HSK63/A	ER16MINI	160	22	28	G6.3 15000	916GHRMN	101001601
66APM413	HSK63/A	ER20MINI	160	28	35	G6.3 15000	920GHRMN	101001601
66APM416	HSK63/A	ER25MINI	160	35	42	G6.3 15000	925GHRMN	101815801
61APM210	HSK100/A	ER16MINI	100	22	28	G6.3 15000	916GHRMN	101001601
61APM213	HSK100/A	ER20MINI	100	28	28	G6.3 15000	920GHRMN	101001601
61APM216	HSK100/A	ER25MINI	100	35	35	G6.3 15000	925GHRMN	101815801
61APM410	HSK100/A	ER16MINI	160	22	30	G6.3 15000	916GHRMN	101001601
61APM413	HSK100/A	ER20MINI	160	28	35	G6.3 15000	920GHRMN	101001601
61APM416	HSK100/A	ER25MINI	160	35	48	G6.3 15000	925GHRMN	101815801
61APM510	HSK100/A	ER16MINI	200	22	32	G6.3 15000	916GHRMN	101001601
61APM513	HSK100/A	ER20MINI	200	28	38	G6.3 15000	920GHRMN	101001601
61APM516	HSK100/A	ER25MINI	200	35	45	G6.3 15000	925GHRMN	101815801



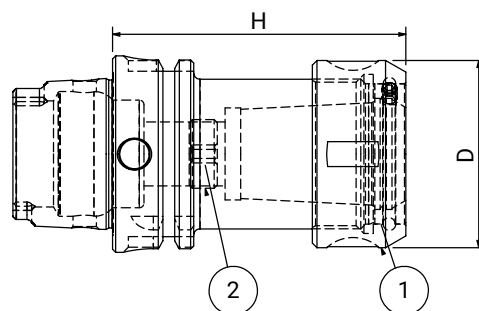
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65APP113	HSK50/A	ER20	70	35	G6.3 15000	920GHREQ	101001601
65APP116	HSK50/A	ER25	70	42	G6.3 15000	925GHREQ	101815801
65APP120	HSK50/A	ER32	70	50	G6.3 15000	932GHREQ	102215901
65APP126	HSK50/A	ER40	75	63	G6.3 15000	940GHREQ	103015901
65APP210	HSK50/A	ER16	100	32	G6.3 15000	916GHREQ	101001601
65APP213	HSK50/A	ER20	100	35	G6.3 15000	920GHREQ	101001601
65APP216	HSK50/A	ER25	100	42	G6.3 15000	925GHREQ	101815801
65APP220	HSK50/A	ER32	100	50	G6.3 15000	932GHREQ	102215901
65APP226	HSK50/A	ER40	100	63	G6.3 15000	940GHREQ	103015901
65APP410	HSK50/A	ER16	160	32	G6.3 15000	916GHREQ	101001601
65APP413	HSK50/A	ER20	160	35	G6.3 15000	920GHREQ	101001601
65APP416	HSK50/A	ER25	160	42	G6.3 15000	925GHREQ	101815801
65APP420	HSK50/A	ER32	160	50	G6.3 15000	932GHREQ	102215901
65APP426	HSK50/A	ER40	160	63	G6.3 15000	940GHREQ	103015901



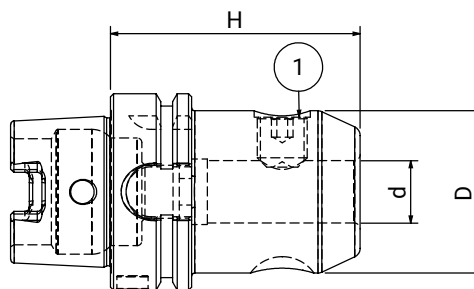
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66APP113	HSK63/A	ER20	75	35	-	G6.3 15000	920GHREQ	101001601
66APP116	HSK63/A	ER25	75	42	-	G6.3 15000	925GHREQ	101815801
66APP120	HSK63/A	ER32	75	50	-	G6.3 15000	932GHREQ	-
66APP126	HSK63/A	ER40	80	63	-	G6.3 15000	940GHREQ	-
66APP210	HSK63/A	ER16	100	32	-	G6.3 15000	916GHREQ	101001601
66APP213	HSK63/A	ER20	100	35	-	G6.3 15000	920GHREQ	101001601
66APP216	HSK63/A	ER25	100	42	-	G6.3 15000	925GHREQ	101815801
66APP220	HSK63/A	ER32	100	50	-	G6.3 15000	932GHREQ	102215901
66APP226	HSK63/A	ER40	100	63	-	G6.3 15000	940GHREQ	103015901
66APP310	HSK63/A	ER16	120	32	-	G6.3 15000	916GHREQ	101001601
66APP313	HSK63/A	ER20	120	35	-	G6.3 15000	920GHREQ	101001601
66APP316	HSK63/A	ER25	120	42	-	G6.3 15000	925GHREQ	101815801
66APP320	HSK63/A	ER32	120	50	-	G6.3 15000	932GHREQ	102215901
66APP326	HSK63/A	ER40	120	63	50	G6.3 15000	940GHREQ	103015901
66APP410	HSK63/A	ER16	160	32	38	G6.3 15000	916GHREQ	101001601
66APP413	HSK63/A	ER20	160	35	42	G6.3 15000	920GHREQ	101001601
66APP416	HSK63/A	ER25	160	42	48	G6.3 15000	925GHREQ	101815801
66APP420	HSK63/A	ER32	160	50	50	G6.3 15000	932GHREQ	102215901
66APP426	HSK63/A	ER40	160	63	50	G6.3 15000	940GHREQ	103015901
66APP510	HSK63/A	ER16	200	32	40	G6.3 15000	916GHREQ	101001601
66APP513	HSK63/A	ER20	200	35	44	G6.3 15000	920GHREQ	101001601
66APP516	HSK63/A	ER25	200	42	50	G6.3 15000	925GHREQ	101815801
66APP520	HSK63/A	ER32	200	50	50	G6.3 15000	932GHREQ	102215901
66APP526	HSK63/A	ER40	200	63	50	G6.3 15000	940GHREQ	103015901



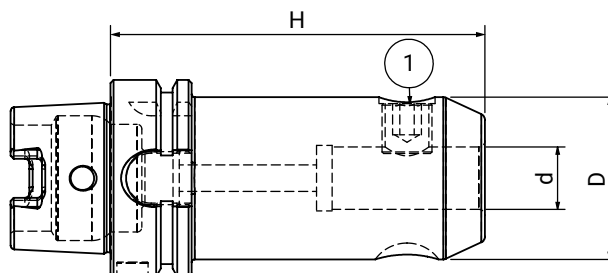
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61APP213	HSK100/A	ER20	100	35	35	G6.3 15000	920GHREQ	101001601
61APP216	HSK100/A	ER25	100	42	42	G6.3 15000	925GHREQ	101815801
61APP220	HSK100/A	ER32	100	50	50	G6.3 15000	932GHREQ	102215901
61APP226	HSK100/A	ER40	100	63	63	G6.3 15000	940GHREQ	103015901
61APP310	HSK100/A	ER16	120	32	37	G6.3 15000	916GHREQ	101001601
61APP313	HSK100/A	ER20	120	35	42	G6.3 15000	920GHREQ	101001601
61APP316	HSK100/A	ER25	120	42	42	G6.3 15000	925GHREQ	101815801
61APP320	HSK100/A	ER32	120	50	53	G6.3 15000	932GHREQ	102215901
61APP326	HSK100/A	ER40	120	63	63	G6.3 15000	940GHREQ	103015901
61APP410	HSK100/A	ER16	160	32	38	G6.3 15000	916GHREQ	101001601
61APP413	HSK100/A	ER20	160	35	42	G6.3 15000	920GHREQ	101001601
61APP416	HSK100/A	ER25	160	42	48	G6.3 15000	925GHREQ	101815801
61APP420	HSK100/A	ER32	160	50	50	G6.3 15000	932GHREQ	102215901
61APP426	HSK100/A	ER40	160	63	63	G6.3 15000	940GHREQ	103015901
61APP510	HSK100/A	ER16	200	32	40	G6.3 15000	916GHREQ	101001601
61APP513	HSK100/A	ER20	200	35	45	G6.3 15000	920GHREQ	101001601
61APP516	HSK100/A	ER25	200	42	48	G6.3 15000	925GHREQ	101815801
61APP520	HSK100/A	ER32	200	50	50	G6.3 15000	932GHREQ	102215901
61APP526	HSK100/A	ER40	200	63	63	G6.3 15000	940GHREQ	103015901



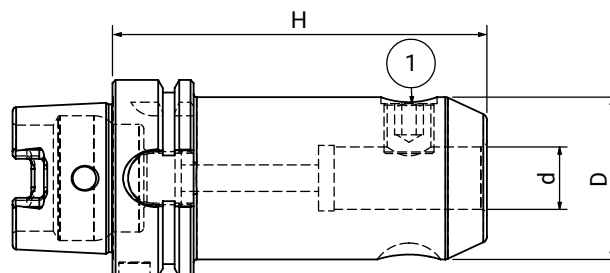
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65APO225	HSK50/A	EOC25	100	60	G6.3 15000	925GHROS	102215901
66APO216	HSK63/A	EOC16	100	43	G6.3 15000	916GHROS	101001601
66APO225	HSK63/A	EOC25	100	60	G6.3 15000	925GHROS	101001601
66APO232	HSK63/A	EOC32	120	72	G6.3 15000	932GHROS	101001601
66APO416	HSK63/A	EOC16	160	43	G6.3 15000	916GHROS	101815801
66APO425	HSK63/A	EOC25	160	60	G6.3 15000	925GHROS	102215901
66APO432	HSK63/A	EOC32	160	72	G6.3 15000	932GHROS	102215901
61APO216	HSK100/A	EOC16	110	43	G6.3 15000	916GHROS	101815801
61APO225	HSK100/A	EOC25	120	60	G6.3 15000	925GHROS	102215901
61APO232	HSK100/A	EOC32	130	72	G6.3 15000	932GHROS	102215901



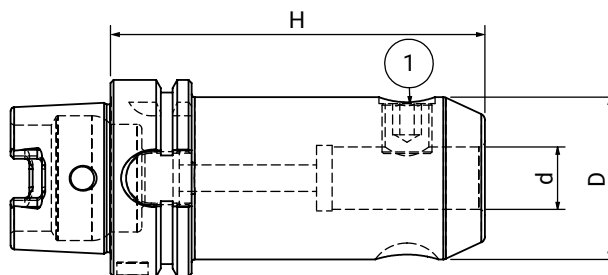
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65AWLD08	HSK50/A	8	65	28	G6.3 15000	1 x 100801002
65AWLD10	HSK50/A	10	65	35	G6.3 15000	1 x 101001202
65AWLD12	HSK50/A	12	80	42	G6.3 15000	1 x 101201602
65AWLD14	HSK50/A	14	80	44	G6.3 15000	1 x 101201602
65AWLD16	HSK50/A	16	80	48	G6.3 15000	1 x 101401602
65AWLD18	HSK50/A	18	80	50	G6.3 15000	1 x 101401602
65AWLD20	HSK50/A	20	80	52	G6.3 15000	1 x 101601602
65AWLD25	HSK50/A	25	105	65	G6.3 15000	2 x 101802002
65AWLD32	HSK50/A	32	120	72	G6.3 15000	2 x 102002002
66AWLD06	HSK63/A	6	65	25	G6.3 15000	1 x 100601002
66AWLD08	HSK63/A	8	65	28	G6.3 15000	1 x 100801002
66AWLD10	HSK63/A	10	65	35	G6.3 15000	1 x 101001202
66AWLD12	HSK63/A	12	80	42	G6.3 15000	1 x 101201602
66AWLD14	HSK63/A	14	80	44	G6.3 15000	1 x 101201602
66AWLD16	HSK63/A	16	80	48	G6.3 15000	1 x 101401602
66AWLD18	HSK63/A	18	80	50	G6.3 15000	1 x 101401602
66AWLD20	HSK63/A	20	80	52	G6.3 15000	1 x 101601602
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61AWLD06	HSK100/A	6	80	25	G6.3 15000	1 x 100601002
61AWLD08	HSK100/A	8	80	28	G6.3 15000	1 x 100801002
61AWLD10	HSK100/A	10	80	35	G6.3 15000	1 x 101001202
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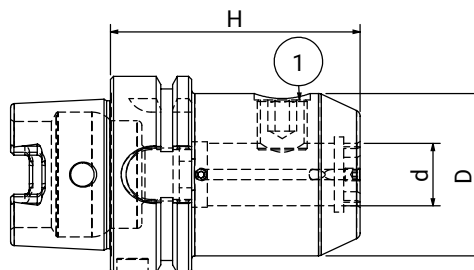
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65AWE210	HSK50/A	10	100	35	G6.3 15000	1 x 101001202
65AWE212	HSK50/A	12	100	42	G6.3 15000	1 x 101201602
65AWE214	HSK50/A	14	100	44	G6.3 15000	1 x 101201602
65AWE216	HSK50/A	16	100	48	G6.3 15000	1 x 101401602
65AWE218	HSK50/A	18	100	50	G6.3 15000	1 x 101401602
65AWE220	HSK50/A	20	100	52	G6.3 15000	1 x 101601602
65AWE406	HSK50/A	6	160	25	G6.3 15000	1 x 100601002
65AWE408	HSK50/A	8	160	28	G6.3 15000	1 x 100801002
65AWE410	HSK50/A	10	160	35	G6.3 15000	1 x 101001202
65AWE412	HSK50/A	12	160	42	G6.3 15000	1 x 101201602
65AWE414	HSK50/A	14	160	44	G6.3 15000	1 x 101201602
65AWE416	HSK50/A	16	160	48	G6.3 15000	1 x 101401602
65AWE418	HSK50/A	18	160	50	G6.3 15000	1 x 101401602
65AWE420	HSK50/A	20	160	52	G6.3 15000	1 x 101601602
65AWE425	HSK50/A	25	160	65	G6.3 15000	2 x 101802002



COD	CONO	d	H	D	BILANCIATURA	1 - GRANO
66AWE206	HSK63/A	6	100	25	G6.3 15000	1 x 100601002
66AWE208	HSK63/A	8	100	28	G6.3 15000	1 x 100801002
66AWE210	HSK63/A	10	100	35	G6.3 15000	1 x 101001202
66AWE212	HSK63/A	12	100	42	G6.3 15000	1 x 101201602
66AWE214	HSK63/A	14	100	44	G6.3 15000	1 x 101201602
66AWE216	HSK63/A	16	100	48	G6.3 15000	1 x 101401602
66AWE218	HSK63/A	18	100	50	G6.3 15000	1 x 101401602
66AWE220	HSK63/A	20	100	52	G6.3 15000	1 x 101601602
66AWE306	HSK63/A	6	120	25	G6.3 15000	1 x 100601002
66AWE308	HSK63/A	8	120	28	G6.3 15000	1 x 100801002
66AWE310	HSK63/A	10	120	35	G6.3 15000	1 x 101001202
66AWE312	HSK63/A	12	120	42	G6.3 15000	1 x 101201602
66AWE314	HSK63/A	14	120	44	G6.3 15000	1 x 101201602
66AWE316	HSK63/A	16	120	48	G6.3 15000	1 x 101401602
66AWE318	HSK63/A	18	120	50	G6.3 15000	1 x 101401602
66AWE320	HSK63/A	20	120	52	G6.3 15000	1 x 101601602
66AWE325	HSK63/A	25	120	65	G6.3 15000	2 x 101802002
66AWE332	HSK63/A	32	120	72	G6.3 15000	2 x 102002002
66AWE406	HSK63/A	6	160	25	G6.3 15000	1 x 100601002
66AWE408	HSK63/A	8	160	28	G6.3 15000	1 x 100801002
66AWE410	HSK63/A	10	160	35	G6.3 15000	1 x 101001202
66AWE412	HSK63/A	12	160	42	G6.3 15000	1 x 101201602
66AWE414	HSK63/A	14	160	44	G6.3 15000	1 x 101201602
66AWE416	HSK63/A	16	160	44	G6.3 15000	1 x 101401602
66AWE418	HSK63/A	18	160	50	G6.3 15000	1 x 101401602
66AWE420	HSK63/A	20	160	52	G6.3 15000	1 x 101601602
66AWE425	HSK63/A	25	160	63	G6.3 15000	2 x 101802002
66AWE432	HSK63/A	32	160	72	G6.3 15000	2 x 102002002

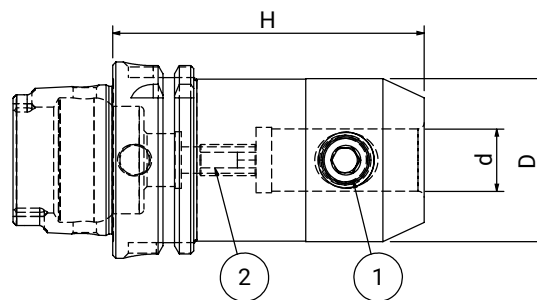


COD	CONO	d	H	D	BILANCIATURA	1 - GRANO
61AWE406	HSK100/A	6	160	25	G6.3 15000	1 x 100601002
61AWE408	HSK100/A	8	160	28	G6.3 15000	1 x 100801002
61AWE410	HSK100/A	10	160	35	G6.3 15000	1 x 101001202
61AWE412	HSK100/A	12	160	42	G6.3 15000	1 x 101201602
61AWE414	HSK100/A	14	160	44	G6.3 15000	1 x 101201602
61AWE416	HSK100/A	16	160	48	G6.3 15000	1 x 101401602
61AWE418	HSK100/A	18	160	50	G6.3 15000	1 x 101401602
61AWE420	HSK100/A	20	160	52	G6.3 15000	1 x 101601602
61AWE425	HSK100/A	25	160	65	G6.3 15000	2 x 101802002
61AWE432	HSK100/A	32	160	72	G6.3 15000	2 x 102002002
61AWE440	HSK100/A	40	160	80	G6.3 15000	2 x 102002002
61AWE506	HSK100/A	6	200	25	G6.3 15000	1 x 100601002
61AWE508	HSK100/A	8	200	28	G6.3 15000	1 x 100801002
61AWE510	HSK100/A	10	200	35	G6.3 15000	1 x 101001202
61AWE512	HSK100/A	12	200	42	G6.3 15000	1 x 101201602
61AWE514	HSK100/A	14	200	44	G6.3 15000	1 x 101201602
61AWE516	HSK100/A	16	200	48	G6.3 15000	1 x 101401602
61AWE518	HSK100/A	18	200	50	G6.3 15000	1 x 101401602
61AWE520	HSK100/A	20	200	52	G6.3 15000	1 x 101601602
61AWE525	HSK100/A	25	200	65	G6.3 15000	2 x 101802002
61AWE532	HSK100/A	32	200	72	G6.3 15000	2 x 102002002
61AWE540	HSK100/A	40	200	80	G6.3 15000	2 x 102002002
61AWE550	HSK100/A	50	200	100	G6.3 15000	2 x 102422504

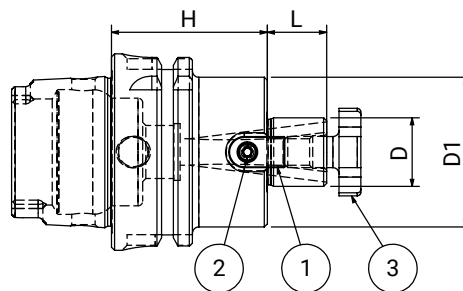


COD	CONO	d	H	D	BILANCIATURA	1 - GRANO
66AWLK06	HSK63/A	6	65	25	G6.3 15000	1 x 100601002
66AWLK08	HSK63/A	8	65	28	G6.3 15000	1 x 100801002
66AWLK10	HSK63/A	10	65	35	G6.3 15000	1 x 101001202
66AWLK12	HSK63/A	12	80	42	G6.3 15000	1 x 101201602
66AWLK14	HSK63/A	14	80	44	G6.3 15000	1 x 101201602
66AWLK16	HSK63/A	16	80	48	G6.3 15000	1 x 101401602
66AWLK18	HSK63/A	18	80	50	G6.3 15000	1 x 101401602
66AWLK20	HSK63/A	20	80	52	G6.3 15000	1 x 101601602
66AWLK25	HSK63/A	25	110	65	G6.3 15000	2 x 101802002
66AWLK32	HSK63/A	32	110	72	G6.3 15000	2 x 102002002
66AWLK40	HSK63/A	40	125	80	G6.3 15000	2 x 102002002

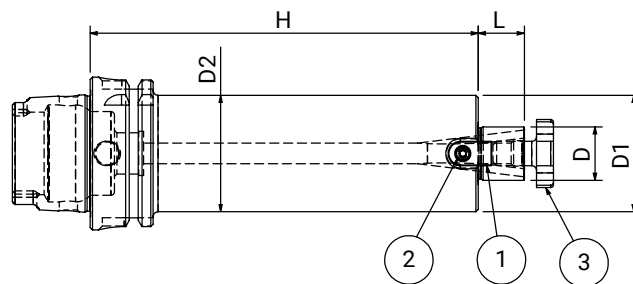
61AWLK06	HSK100/A	6	80	25	G6.3 15000	1 x 100601002
61AWLK08	HSK100/A	8	80	28	G6.3 15000	1 x 100801002
61AWLK10	HSK100/A	10	80	35	G6.3 15000	1 x 101001202
61AWLK12	HSK100/A	12	80	42	G6.3 15000	1 x 101201602
61AWLK14	HSK100/A	14	80	44	G6.3 15000	1 x 101201602
61AWLK16	HSK100/A	16	100	48	G6.3 15000	1 x 101401602
61AWLK18	HSK100/A	18	100	50	G6.3 15000	1 x 101401602
61AWLK20	HSK100/A	20	100	52	G6.3 15000	1 x 101601602
61AWLK25	HSK100/A	25	100	65	G6.3 15000	2 x 101802002
61AWLK32	HSK100/A	32	100	72	G6.3 15000	2 x 102002002
61AWLK40	HSK100/A	40	105	80	G6.3 15000	2 x 102002002



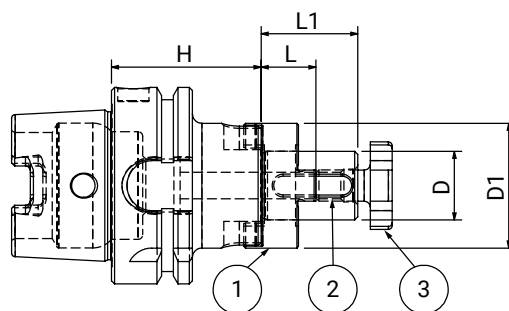
COD	CONO	d	H	D	BILANCIATURA	1 - GRANO
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65AWHN08	HSK50/A	8	80	28	G6.3 15000	1 x 100801002
65AWHN10	HSK50/A	10	80	35	G6.3 15000	1 x 101001202
65AWHN12	HSK50/A	12	90	42	G6.3 15000	1 x 101201602
65AWHN14	HSK50/A	14	90	44	G6.3 15000	1 x 101201602
65AWHN16	HSK50/A	16	90	48	G6.3 15000	1 x 101401602
65AWHN18	HSK50/A	18	90	50	G6.3 15000	1 x 101401602
65AWHN20	HSK50/A	20	100	52	G6.3 15000	1 x 101601602
65AWHN25	HSK50/A	25	110	65	G6.3 15000	2 x 101802002
65AWHN32	HSK50/A	32	120	72	G6.3 15000	2 x 102002002
66AWHN06	HSK63/A	6	80	25	G6.3 15000	1 x 100601002
66AWHN08	HSK63/A	8	80	28	G6.3 15000	1 x 100801002
66AWHN10	HSK63/A	10	80	35	G6.3 15000	1 x 101001202
66AWHN12	HSK63/A	12	90	42	G6.3 15000	1 x 101201602
66AWHN14	HSK63/A	14	90	44	G6.3 15000	1 x 101201602
66AWHN16	HSK63/A	16	100	48	G6.3 15000	1 x 101401602
66AWHN18	HSK63/A	18	100	50	G6.3 15000	1 x 101401602
66AWHN20	HSK63/A	20	100	52	G6.3 15000	1 x 101601602
66AWHN25	HSK63/A	25	110	63	G6.3 15000	2 x 101802002
66AWHN32	HSK63/A	32	110	72	G6.3 15000	2 x 102002002
61AWHN06	HSK100/A	6	90	25	G6.3 15000	1 x 100601002
61AWHN08	HSK100/A	8	90	28	G6.3 15000	1 x 100801002
61AWHN10	HSK100/A	10	90	35	G6.3 15000	1 x 101001202
61AWHN12	HSK100/A	12	100	42	G6.3 15000	1 x 101201602
61AWHN14	HSK100/A	14	100	44	G6.3 15000	1 x 101201602
61AWHN16	HSK100/A	16	100	48	G6.3 15000	1 x 101401602
61AWHN18	HSK100/A	18	100	50	G6.3 15000	1 x 101401602
61AWHN20	HSK100/A	20	110	52	G6.3 15000	1 x 101601602
61AWHN25	HSK100/A	25	120	65	G6.3 15000	2 x 101802002
61AWHN32	HSK100/A	32	120	72	G6.3 15000	2 x 102002002
61AWHN40	HSK100/A	40	120	80	G6.3 15000	2 x 102002002



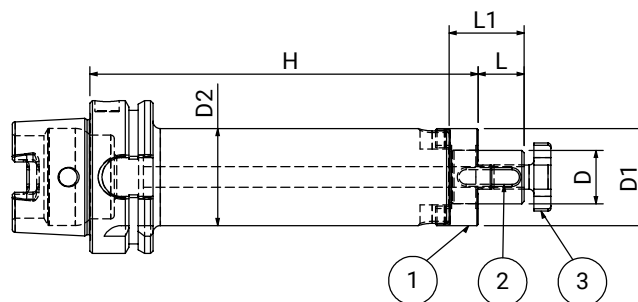
COD	CONO	D	H	L	D1	BILANCIATURA	1 - TASSELLO	2 - VITE	3 - VITE A CROCE
65APF116	HSK50/A	16	50	17	38	G6.3 15000	2 x 916TSL01	2 x 110301001	916VTC02
65APF122	HSK50/A	22	60	19	48	G6.3 15000	2 x 922TSL01	2 x 110301201	922VTC02
65APF127	HSK50/A	27	60	21	58	G6.3 15000	2 x 927TSL01	2 x 110401601	927VTC02
65APF132	HSK50/A	32	60	24	66	G6.3 15000	2 x 932TSL01	2 x 110601601	932VTC02
65APF140	HSK50/A	40	70	27	80	G6.3 15000	2 x 940TSL01	2 x 110601601	940VTC02
66APF116	HSK63/A	16	50	17	38	G6.3 15000	2 x 916TSL01	2 x 110301001	916VTC02
66APF122	HSK63/A	22	50	19	48	G6.3 15000	2 x 922TSL01	2 x 110301201	922VTC02
66APF127	HSK63/A	27	60	21	58	G6.3 15000	2 x 927TSL01	2 x 110401601	927VTC02
66APF132	HSK63/A	32	60	24	66	G6.3 15000	2 x 932TSL01	2 x 110601601	932VTC02
66APF140	HSK63/A	40	60	27	80	G6.3 15000	2 x 940TSL01	2 x 110601601	940VTC02
61APF116	HSK100/A	16	50	17	38	G6.3 15000	2 x 916TSL01	2 x 110301001	916VTC02
61APF122	HSK100/A	22	50	19	48	G6.3 15000	2 x 922TSL01	2 x 110301201	922VTC02
61APF127	HSK100/A	27	50	21	58	G6.3 15000	2 x 927TSL01	2 x 110401601	927VTC02
61APF132	HSK100/A	32	50	24	66	G6.3 15000	2 x 932TSL01	2 x 110601601	932VTC02
61APF140	HSK100/A	40	60	27	80	G6.3 15000	2 x 940TSL01	2 x 110601601	940VTC02



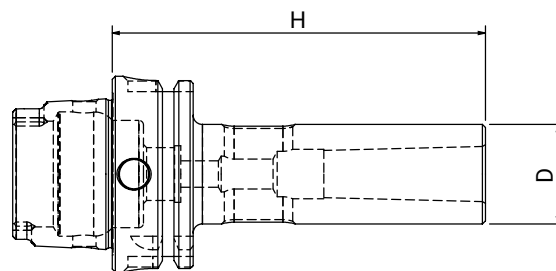
COD	CONO	D	H	L	D1	D2	BILANCIATURA	1 - TASSELLO	2 - VITE	3 - VITE A CROCE
66APF216	HSK63/A	16	100	17	38	-	G6.3 15000	2 x 916TSL01	2 x 110301001	916VTC02
66APF222	HSK63/A	22	100	19	48	-	G6.3 15000	2 x 922TSL01	2 x 110301201	922VTC02
66APF227	HSK63/A	27	100	21	58	-	G6.3 15000	2 x 927TSL01	2 x 110401601	927VTC02
66APF232	HSK63/A	32	100	24	66	-	G6.3 15000	2 x 932TSL01	2 x 110601601	932VTC02
66APF240	HSK63/A	40	100	27	80	-	G6.3 15000	2 x 940TSL01	2 x 110601601	940VTC02
66APF416	HSK63/A	16	160	17	38	-	G6.3 15000	2 x 916TSL01	2 x 110301001	916VTC02
66APF422	HSK63/A	22	160	19	48	-	G6.3 15000	2 x 922TSL01	2 x 110301201	922VTC02
66APF427	HSK63/A	27	160	21	58	-	G6.3 15000	2 x 927TSL01	2 x 110401601	927VTC02
66APF432	HSK63/A	32	160	24	66	-	G6.3 15000	2 x 932TSL01	2 x 110601601	932VTC02
66APF440	HSK63/A	40	160	27	80	-	G6.3 15000	2 x 940TSL01	2 x 110601601	940VTC02
61APF216	HSK100/A	16	100	17	38	43	G6.3 15000	2 x 916TSL01	2 x 110301001	916VTC02
61APF222	HSK100/A	22	100	19	48	53	G6.3 15000	2 x 922TSL01	2 x 110301201	922VTC02
61APF227	HSK100/A	27	100	21	58	-	G6.3 15000	2 x 927TSL01	2 x 110401601	927VTC02
61APF232	HSK100/A	32	100	24	66	-	G6.3 15000	2 x 932TSL01	2 x 110601601	932VTC02
61APF240	HSK100/A	40	100	27	80	-	G6.3 15000	2 x 940TSL01	2 x 110601601	940VTC02
61APF316	HSK100/A	16	130	17	38	44	G6.3 15000	2 x 916TSL01	2 x 110301001	916VTC02
61APF322	HSK100/A	22	130	19	48	55	G6.3 15000	2 x 922TSL01	2 x 110301201	922VTC02
61APF327	HSK100/A	27	130	21	58	65	G6.3 15000	2 x 927TSL01	2 x 110401601	927VTC02
61APF332	HSK100/A	32	130	24	66	73	G6.3 15000	2 x 932TSL01	2 x 110601601	932VTC02
61APF340	HSK100/A	40	130	27	80	-	G6.3 15000	2 x 940TSL01	2 x 110601601	940VTC02
61APF416	HSK100/A	16	160	17	38	43	G6.3 15000	2 x 916TSL01	2 x 110301001	916VTC02
61APF422	HSK100/A	22	160	19	48	56	G6.3 15000	2 x 922TSL01	2 x 110301201	922VTC02
61APF427	HSK100/A	27	160	21	58	66	G6.3 15000	2 x 927TSL01	2 x 110401601	927VTC02
61APF432	HSK100/A	32	160	24	66	74	G6.3 15000	2 x 932TSL01	2 x 110601601	932VTC02
61APF440	HSK100/A	40	160	27	80	-	G6.3 15000	2 x 940TSL01	2 x 110601601	940VTC02
61APF516	HSK100/A	16	200	17	38	47	G6.3 15000	2 x 916TSL01	2 x 110301001	916VTC02
61APF522	HSK100/A	22	200	19	48	58	G6.3 15000	2 x 922TSL01	2 x 110301201	922VTC02
61APF527	HSK100/A	27	200	21	58	67	G6.3 15000	2 x 927TSL01	2 x 110401601	927VTC02
61APF532	HSK100/A	32	200	24	66	75	G6.3 15000	2 x 932TSL01	2 x 110601601	932VTC02
61APF540	HSK100/A	40	200	27	80	-	G6.3 15000	2 x 940TSL01	2 x 110601601	940VTC02
61APF616	HSK100/A	16	250	17	38	48	G6.3 15000	2 x 916TSL01	2 x 110301001	916VTC02
61APF622	HSK100/A	22	250	19	48	58	G6.3 15000	2 x 922TSL01	2 x 110301201	922VTC02
61APF627	HSK100/A	27	250	21	58	68	G6.3 15000	2 x 927TSL01	2 x 110401601	927VTC02
61APF632	HSK100/A	32	250	24	66	77	G6.3 15000	2 x 932TSL01	2 x 110601601	932VTC02
61APF640	HSK100/A	40	250	27	80	-	G6.3 15000	2 x 940TSL01	2 x 110601601	940VTC02



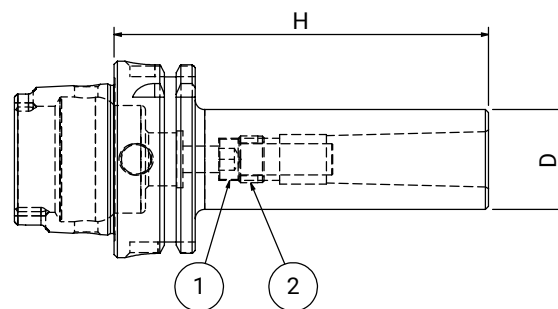
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65APU122	HSK50/A	22	50	19	31	40	922GNT01	170602506	922VTC02
65APU127	HSK50/A	27	65	21	33	42	927GNT01	170702507	927VTC02
65APU132	HSK50/A	32	65	24	38	52	932GNT01	170802807	932VTC02
65APU140	HSK50/A	40	75	27	41	70	940GNT01	171003208	940VTC02
66APU116	HSK63/A	16	60	17	27	32	916GNT01	170402004	916VTC02
66APU122	HSK63/A	22	60	19	31	40	922GNT01	170602506	922VTC02
66APU127	HSK63/A	27	60	21	33	48	927GNT01	170702507	927VTC02
66APU132	HSK63/A	32	60	24	38	58	932GNT01	170802807	932VTC02
66APU140	HSK63/A	40	70	27	41	70	940GNT01	171003208	940VTC02
61APU116	HSK100/A	16	60	17	27	32	916GNT01	170402004	916VTC02
61APU122	HSK100/A	22	60	19	31	40	922GNT01	170602506	922VTC02
61APU127	HSK100/A	27	60	21	33	48	927GNT01	170702507	927VTC02
61APU132	HSK100/A	32	60	24	38	58	932GNT01	170802807	932VTC02
61APU140	HSK100/A	40	70	27	41	70	940GNT01	171003208	940VTC02



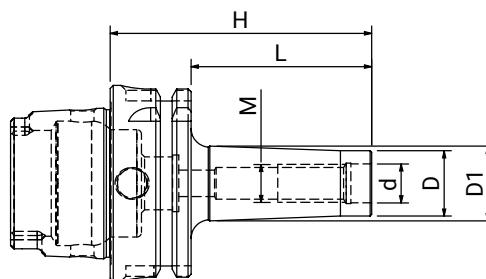
COD	CONO	D	H	L	L1	D1	D2	1 - GIUNTO	2 - LINGUETTA	3 - VITE A CROCE
66APU216	HSK63/A	16	100	17	27	32	-	1 x 916GNT01	1 x 170402004	916VTC02
66APU222	HSK63/A	22	100	19	31	40	-	1 x 922GNT01	1 x 170602506	922VTC02
66APU227	HSK63/A	27	100	21	33	48	-	1 x 927GNT01	1 x 170702507	927VTC02
66APU232	HSK63/A	32	100	24	38	58	-	1 x 932GNT01	1 x 170802807	932VTC02
66APU240	HSK63/A	40	100	27	41	70	-	1 x 940GNT01	1 x 171003208	940VTC02
66APU416	HSK63/A	16	160	17	27	32	-	1 x 916GNT01	1 x 170402004	916VTC02
66APU422	HSK63/A	22	160	19	31	40	-	1 x 922GNT01	1 x 170602506	922VTC02
66APU427	HSK63/A	27	160	21	33	48	-	1 x 927GNT01	1 x 170702507	927VTC02
66APU432	HSK63/A	32	160	24	38	58	-	1 x 932GNT01	1 x 170802807	932VTC02
66APU440	HSK63/A	40	160	27	41	70	-	1 x 940GNT01	1 x 171003208	940VTC02
61APU216	HSK100/A	16	100	17	27	32	44	1 x 916GNT01	1 x 170402004	916VTC02
61APU222	HSK100/A	22	100	19	31	40	50	1 x 922GNT01	1 x 170602506	922VTC02
61APU227	HSK100/A	27	100	21	33	48	60	1 x 927GNT01	1 x 170702507	927VTC02
61APU232	HSK100/A	32	100	24	38	58	58	1 x 932GNT01	1 x 170802807	932VTC02
61APU240	HSK100/A	40	100	27	41	70	70	1 x 940GNT01	1 x 171003208	940VTC02
61APU416	HSK100/A	16	160	17	27	32	44	1 x 916GNT01	1 x 170402004	916VTC02
61APU422	HSK100/A	22	160	19	31	40	50	1 x 922GNT01	1 x 170602506	922VTC02
61APU427	HSK100/A	27	160	21	33	48	60	1 x 927GNT01	1 x 170702507	927VTC02
61APU432	HSK100/A	32	160	24	38	58	58	1 x 932GNT01	1 x 170802807	932VTC02
61APU440	HSK100/A	40	160	27	41	70	70	1 x 940GNT01	1 x 171003208	940VTC02



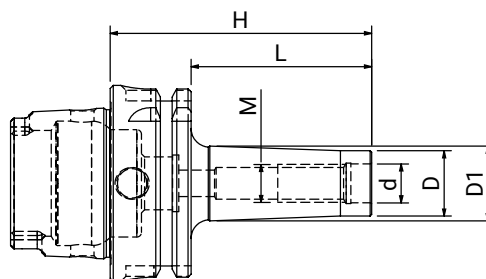
COD	CONO	MORSE	H	D
65AMP101	HSK50/A	1	100	25
65AMP102	HSK50/A	2	120	32
65AMP103	HSK50/A	3	140	40
66AMP101	HSK63/A	1	100	25
66AMP102	HSK63/A	2	120	32
66AMP103	HSK63/A	3	140	40
66AMP104	HSK63/A	4	160	48
61AMP101	HSK100/A	1	110	25
61AMP102	HSK100/A	2	120	32
61AMP103	HSK100/A	3	150	40
61AMP104	HSK100/A	4	170	48
61AMP105	HSK100/A	5	200	63



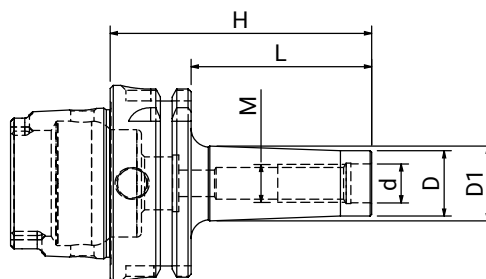
COD	CONO	MORSE	H	D	1 - VITE	2 - GHIERA
65AMF101	HSK50/A	1	100	25	110604501	-
65AMF102	HSK50/A	2	120	32	111003014	121500802
65AMF103	HSK50/A	3	140	40	111204003	122000903
66AMF101	HSK63/A	1	100	25	110603001	-
66AMF102	HSK63/A	2	120	32	111003014	121500802
66AMF103	HSK63/A	3	140	40	111204003	122000903
66AMF104	HSK63/A	4	160	48	111604516	122501204
61AMF101	HSK100/A	1	110	25	110603501	121206502
61AMF102	HSK100/A	2	120	32	111003014	121500802
61AMF103	HSK100/A	3	150	40	111204003	122000903
61AMF104	HSK100/A	4	170	48	111604514	122501204
61AMF105	HSK100/A	5	200	63	112005003	123601104



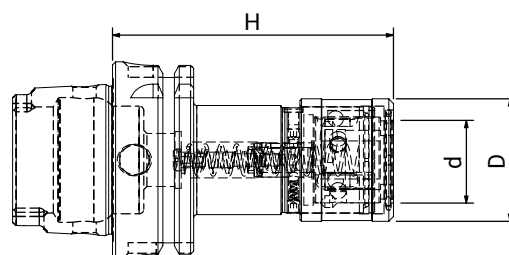
COD	CONO	M	H	L	d	D	D1	BILANCIATURA
65AAF106	HSK50/A	M6	59	33	6,5	9,7	10	G2.5 25000
65AAF108	HSK50/A	M8	59	33	8,5	13	15	G2.5 25000
65AAF110	HSK50/A	M10	59	33	10,5	18	20	G2.5 25000
65AAF112	HSK50/A	M12	59	33	12,5	21	24	G2.5 25000
65AAF206	HSK50/A	M6	84	58	6,5	9,7	20	G2.5 25000
65AAF208	HSK50/A	M8	84	58	8,5	13	23	G2.5 25000
65AAF210	HSK50/A	M10	84	58	10,5	18	25	G2.5 25000
65AAF212	HSK50/A	M12	84	58	12,5	21	24	G2.5 25000
65AAF306	HSK50/A	M6	109	83	6,5	9,7	23	G2.5 25000
65AAF308	HSK50/A	M8	109	83	8,5	13	23	G2.5 25000
65AAF310	HSK50/A	M10	109	83	10,5	18	28	G2.5 25000
65AAF312	HSK50/A	M12	109	83	12,5	21	31	G2.5 25000
65AAF408	HSK50/A	M8	134	108	8,5	13	25	G2.5 25000
65AAF410	HSK50/A	M10	134	108	10,5	18	30	G2.5 25000
65AAF412	HSK50/A	M12	134	108	12,5	21	31	G2.5 25000



COD	CONO	M	H	L	d	D	D1	BILANCIATURA
66AAF108	HSK63/A	M8	59	33	8,5	13	15	G2.5 20000
66AAF110	HSK63/A	M10	59	33	10,5	18	19,5	G2.5 20000
66AAF112	HSK63/A	M12	59	33	12,5	21	24	G2.5 20000
66AAF116	HSK63/A	M16	59	33	17	29	34	G2.5 20000
66AAF208	HSK63/A	M8	84	58	8,5	13	23	G2.5 20000
66AAF210	HSK63/A	M10	84	58	10,5	18	25	G2.5 20000
66AAF212	HSK63/A	M12	84	58	12,5	21	24	G2.5 20000
66AAF216	HSK63/A	M16	84	58	17	29	34	G2.5 20000
66AAF308	HSK63/A	M8	109	83	8,5	13	23	G2.5 20000
66AAF310	HSK63/A	M10	109	83	10,5	18	28	G2.5 20000
66AAF312	HSK63/A	M12	109	83	12,5	21	31	G2.5 20000
66AAF316	HSK63/A	M16	109	83	17	29	34	G2.5 20000
66AAF408	HSK63/A	M8	134	108	8,5	13	25	G2.5 20000
66AAF410	HSK63/A	M10	134	108	10,5	18	28	G2.5 20000
66AAF412	HSK63/A	M12	134	108	12,5	21	31	G2.5 20000
66AAF416	HSK63/A	M16	134	108	17	29	39	G2.5 20000
66AAF510	HSK63/A	M10	159	133	10,5	18	34	G2.5 20000
66AAF512	HSK63/A	M12	159	133	12,5	21	31	G2.5 20000
66AAF516	HSK63/A	M16	159	133	17	29	39	G2.5 20000
66AAF612	HSK63/A	M12	184	158	12,5	21	39	G2.5 20000
66AAF616	HSK63/A	M16	184	158	17	29	39	G2.5 20000
66AAF712	HSK63/A	M12	209	183	12,5	21	42	G2.5 20000
66AAF716	HSK63/A	M16	209	183	17	29	42	G2.5 20000



COD	CONO	M	H	L	d	D	D1	BILANCIATURA
61AAF212	HSK100/A	M12	87	58	12,5	21	24	G2.5 20000
61AAF216	HSK100/A	M16	87	58	17	29	32	G2.5 20000
61AAF312	HSK100/A	M12	137	108	12,5	21	47	G2.5 20000
61AAF316	HSK100/A	M16	137	108	17	29	42	G2.5 20000
61AAF412	HSK100/A	M12	187	158	12,5	21	55	G2.5 20000
61AAF416	HSK100/A	M16	187	158	17	29	55	G2.5 20000
61AAF516	HSK100/A	M16	237	208	17	29	55	G2.5 20000



COD	CONO	RANGE	SIZE	d	D	H
65APCRM1	HSK50/A	M3-M12	GR.1	19	39,2	96
65APCRM2	HSK50/A	M6-M20	GR.2	31	54,5	139
66APCRM1	HSK63/A	M3-M12	GR.1	19	39,2	95
66APCRM2	HSK63/A	M6-M20	GR.2	31	54,5	147
61APCRM1	HSK100/A	M3-M12	GR.1	19	39,2	101
61APCRM2	HSK100/A	M6-M20	GR.2	31	54,5	154

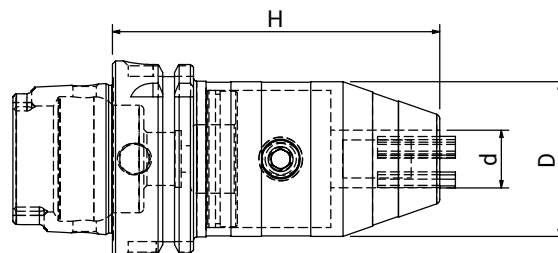
ACCESSORI | ACCESSORIES | ZUBEHÖR | ACCESSOIRES



> PAG. 258



> PAG. 257

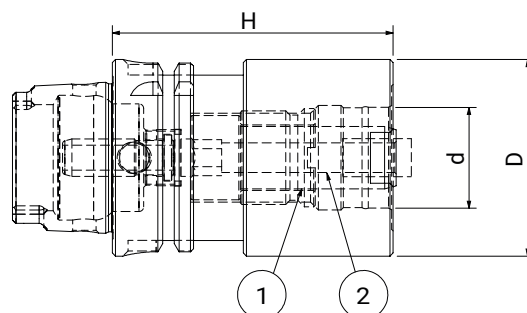


COD	CONO	d	H	D
65AMAZ13	HSK50/A	1-13	103	50
65AMAZ16	HSK50/A	3-16	108	50
66AMAZ13	HSK63/A	1-13	103	50
66AMAZ16	HSK63/A	3-16	108	50
61AMAZ13	HSK100/A	1-13	111	50
61AMAZ16	HSK100/A	3-16	116	50

ACCESSORI | ACCESSORIES | ZUBEHÖR | ACCESSOIRES



> PAG. 279



COD	CONO	H	D	1 - VITE	2 - BOCCOLA
66AVL150 *	HSK63/A	75	50	111604011	122502007
66AVL163 *	HSK63/A	85	63	112005011	123002408
61AVL150 *	HSK100/A	80	50	111604011	122502007
61AVL163 *	HSK100/A	90	63	112005011	123002408
61AVL180 *	HSK100/A	90	80	112005011	123002408

* NOTE



Forniti completi di adduzione refrigerante
Supplied complete with coolant supply
Lieferung komplett mit Kühlmittelversorgung
Livré complet de alimentation de liquide de refroidissement

ADATTATORI MODULARI | MODULAR ADAPTOR | MODULARER ADAPTER | ADAPTATEUR MODULAIRE



> PAG. 243



> PAG. 244



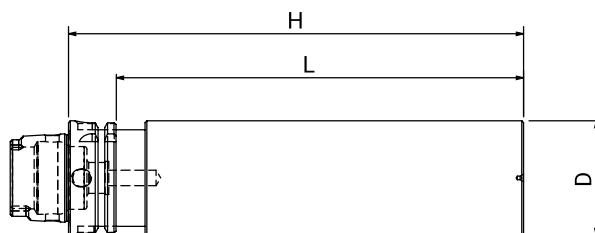
> PAG. 245



> PAG. 246



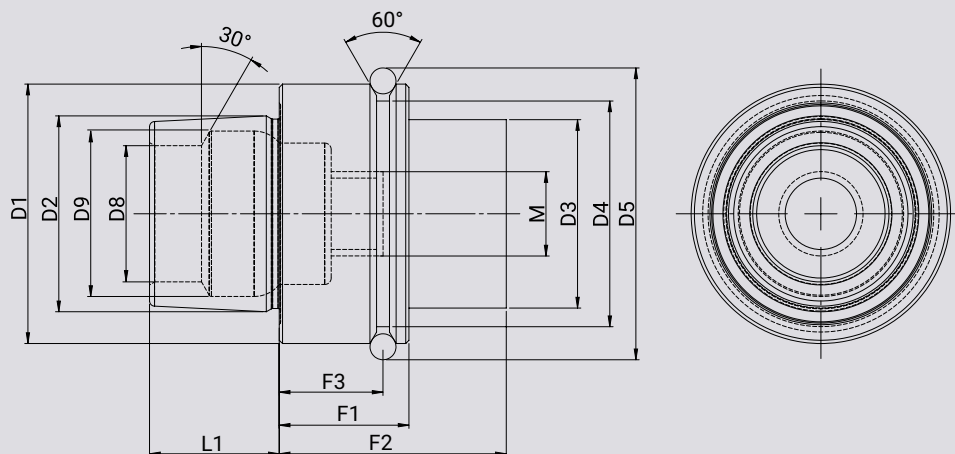
> PAG. 247



COD	CONO	D	L	H
65AST250	HSK50/A	50	200	226
65AST263	HSK50/A	63	200	226
66AST363	HSK63/A	63	224	250
66AST380	HSK63/A	80	250	276
61AST397	HSK100/A	97	315	334

DIN 69893 HSK E





D1	D2	D3	D4	D5 _{-0,1}	D8 ^{H10}	D9 ^{H11}	M	F1 _{-0,1}	F2 min.	F3 ^{+/- 0,1}	L1 _{-0,2}
32	24 +0,007/+0,005	26	26,5	37	17	21	M10x1	20	35	16	16
40	30 +0,007/+0,005	34	34,8	45	21	25,5	M12x1	20	35	16	20
50	38 +0,009/+0,006	42	43	59,3	26	32	M16x1	26	42	18	25
63	48 +0,011/+0,007	53	55	72,3	34	40	M18x1	26	42	18	32

Tutti i mandrini portautensili PAGNONI TOOLS vengono prodotti secondo le normative DIN
 All PAGNONI TOOLS toolholders are manufactured according to DIN norms
 Alle PAGNONI TOOLS Aufnahme sind nach DIN Norm produziert
 Tous les mandrins porte-outils PAGNONI TOOLS sont produits suivant les specifications DIN

DATI TECNICI

PRE-BILANCIATI:

- Grado di equilibratura aggiuntiva indicato a fianco della tabella dimensionale
- Mandrini alte velocità: a richiesta classe massima di equilibratura G 2,5 30000

MATERIALI E TRATTAMENTI:

- Acciaio da cementazione legato
- Temprati-rinvenuti
- HRC 58 ± 2 – profondità di indurimento 0,4-0,5 mm
- Resistenza 800-1000 N/mm²
- Bruniti dopo trattamento termico
- Rettificati internamente e esternamente

TECHNISCHE DATEN

VORGEWUCHTET:

- Neben der Übersichtstabelle der Produkte wird die Wuchtgüte angegeben
- Hochgeschwindigkeits Werkzeughalter: Aus Wuchtgüte G2,5 30000 auf Anfrage

WERKSTOFF UND OBERFLÄCHENBEHANDLUNGEN:

- Legierter Einsatzstahl
- Gehärtet und angelassen
- Einsatzgehärtet HRC 58 ± 2 , Härtetiefe 0,4-0,5 mm
- Festigkeit 800-1000 N/mm²
- Brüniert nach Wärmebehandlung
- Innen- und Außenschleifen

TECHNICAL FEATURES

PRE-BALANCED:

- Additional balancing grade beside dimensional table
- High-speed toolholders: balancing grade G 2,5 30000 on request

MATERIAL AND SURFACE TREATMENTS:

- Alloyed case-hardened steel
- Hardened-tempered
- Case hardened HRC 58 ± 2 - hardening depth 0,4-0,5 mm
- Strength 800-1000 N/mm²
- Black-finished after hardened
- Internal and external grinding

DONNE TECHNIQUES

PRÉ-ÉQUILIBRÉ:

- À côté du tableau de description et dimensions des produits il y a l'indication de la valeur d'équilibrage attentionnel
- Mandrins haute vitesse : sont équilibrés en classe G 2,5 à 30000 Tr/min-1 classe d'équilibrage maximale G 2,5 à 30000 Tr/min sur demande

MATÉRIAUX ET TRAITEMENTS:

- Acier de cémentation allié
- Temprés – Revenus
- Cémentation à HRC 58 ± 2 , profondeur de cémentation 0,4-0,5 mm
- Résistance 800-1000 N/mm²
- Bruni après traitement thermique
- Rectifié en interne et en externe



> PAG. 219



> PAG. 220



> PAG. 221



> PAG. 222



> PAG. 223



> PAG. 224



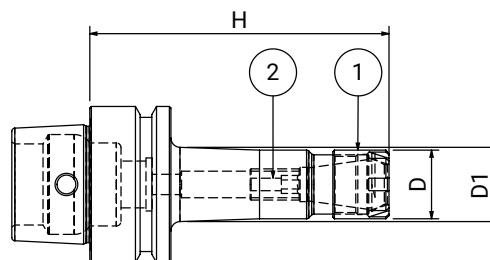
> PAG. 224



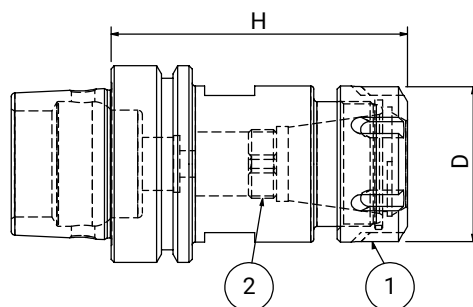
> PAG. 225



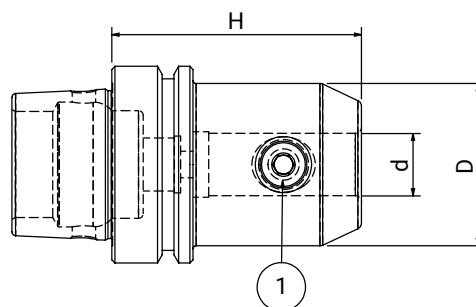
> PAG. 226



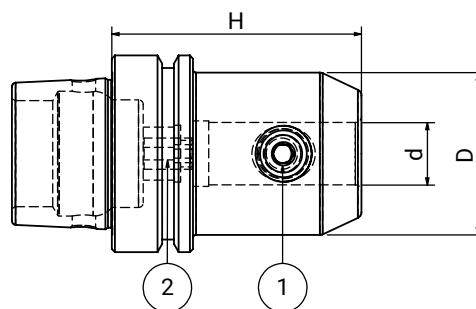
COD	CONO	TIPOLOGIA	H	D	D1	BILANCIATURA	1 - GHIERA	2 - GRANO INTERNO
65EPM207	HSK50/E	ER11MINI	100	16	20	G2.5 20000	911GHRMN	100601004
65EPM210	HSK50/E	ER16MINI	100	22	24	G2.5 20000	916GHRMN	101001601
65EPM407	HSK50/E	ER11MINI	160	16	24	G2.5 20000	911GHRMN	100601004
65EPM410	HSK50/E	ER16MINI	160	22	30	G2.5 20000	916GHRMN	101001601



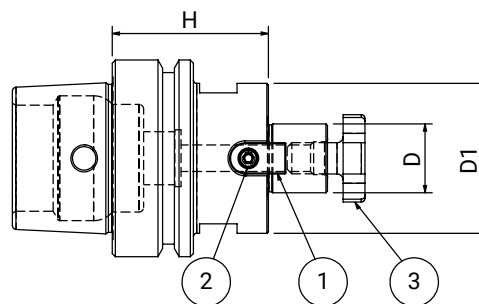
COD	CONO	TIPOLOGIA	H	D	BILANCIATURA	1 - GHIERA	2 - GRANO INTERNO
65EPP210	HSK50/E	ER16	100	32	G2.5 20000	916GHREQ	101001601
65EPP213	HSK50/E	ER20	100	35	G2.5 20000	920GHREQ	101001601
65EPP216	HSK50/E	ER25	100	42	G2.5 20000	925GHREQ	101815801
65EPP220	HSK50/E	ER32	100	50	G2.5 20000	932GHREQ	102215901
65EPP226	HSK50/E	ER40	100	63	G2.5 20000	940GHREQ	103015901
65EPP410	HSK50/E	ER16	160	32	G2.5 20000	916GHREQ	101001601
65EPP413	HSK50/E	ER20	160	35	G2.5 20000	920GHREQ	101001601
65EPP416	HSK50/E	ER25	160	42	G2.5 20000	925GHREQ	101815801
65EPP420	HSK50/E	ER32	160	50	G2.5 20000	932GHREQ	102215901
65EPP426	HSK50/E	ER40	160	63	G2.5 20000	940GHREQ	103015901
66EPP110	HSK63/E	ER16	75	32	G2.5 20000	916GHREQ	101001601
66EPP116	HSK63/E	ER25	75	42	G2.5 20000	925GHREQ	101815801
66EPP120	HSK63/E	ER32	75	50	G2.5 20000	932GHREQ	102215901
66EPP126	HSK63/E	ER40	75	63	G2.5 20000	940GHREQ	103015901
66EPP210	HSK63/E	ER16	100	32	G2.5 20000	916GHREQ	101001601
66EPP216	HSK63/E	ER25	100	42	G2.5 20000	925GHREQ	101815801
66EPP220	HSK63/E	ER32	100	50	G2.5 20000	932GHREQ	102215901
66EPP226	HSK63/E	ER40	100	63	G2.5 20000	940GHREQ	103015901
66EPP310	HSK63/E	ER16	120	32	G2.5 20000	916GHREQ	101001601
66EPP316	HSK63/E	ER25	120	42	G2.5 20000	925GHREQ	101815801
66EPP320	HSK63/E	ER32	120	50	G2.5 20000	932GHREQ	102215901
66EPP326	HSK63/E	ER40	120	63	G2.5 20000	940GHREQ	103015901
66EPP410	HSK63/E	ER16	160	32	G2.5 20000	916GHREQ	101001601
66EPP416	HSK63/E	ER25	160	42	G2.5 20000	925GHREQ	101815801
66EPP420	HSK63/E	ER32	160	50	G2.5 20000	932GHREQ	102215901
66EPP426	HSK63/E	ER40	160	63	G2.5 20000	940GHREQ	103015901



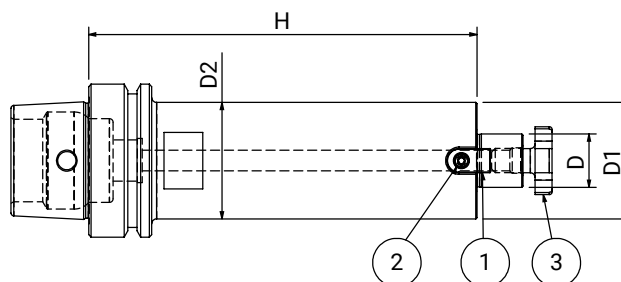
COD	CONO	d	H	D	BILANCIATURA	1 - GRANO
65EWLD06	HSK50/E	6	65	25	G2.5 20000	1 x 100601002
65EWLD08	HSK50/E	8	65	28	G2.5 20000	1 x 100801002
65EWLD10	HSK50/E	10	65	35	G2.5 20000	1 x 101001202
65EWLD12	HSK50/E	12	80	42	G2.5 20000	1 x 101201602
65EWLD14	HSK50/E	14	80	44	G2.5 20000	1 x 101201602
65EWLD16	HSK50/E	16	80	48	G2.5 20000	1 x 101401602
65EWLD18	HSK50/E	18	80	50	G2.5 20000	1 x 101401602
65EWLD20	HSK50/E	20	80	52	G2.5 20000	1 x 101601602
65EWLD25	HSK50/E	25	105	65	G2.5 20000	2 x 101802002
66EWLD06	HSK63/E	6	65	25	G2.5 20000	1 x 100601002
66EWLD08	HSK63/E	8	65	28	G2.5 20000	1 x 100801002
66EWLD10	HSK63/E	10	70	35	G2.5 20000	1 x 101001202
66EWLD12	HSK63/E	12	80	42	G2.5 20000	1 x 101201602
66EWLD14	HSK63/E	14	80	44	G2.5 20000	1 x 101201602
66EWLD16	HSK63/E	16	80	48	G2.5 20000	1 x 101401602
66EWLD18	HSK63/E	18	80	50	G2.5 20000	1 x 101401602
66EWLD20	HSK63/E	20	80	52	G2.5 20000	1 x 101601602
66EWLD25	HSK63/E	25	105	65	G2.5 20000	2 x 101802002
66EWLD32	HSK63/E	32	110	72	G2.5 20000	2 x 102002002



COD	CONO	d	H	D	BILANCIATURA	1 - GRANO
65EWHN06	HSK50/E	6	80	25	G2.5 20000	1 x 100601002
65EWHN08	HSK50/E	8	80	28	G2.5 20000	1 x 100801002
65EWHN10	HSK50/E	10	80	35	G2.5 20000	1 x 101001202
65EWHN12	HSK50/E	12	30	42	G2.5 20000	1 x 101201602
65EWHN14	HSK50/E	14	30	44	G2.5 20000	1 x 101201602
65EWHN16	HSK50/E	16	100	48	G2.5 20000	1 x 101401602
65EWHN18	HSK50/E	18	100	50	G2.5 20000	1 x 101401602
65EWHN20	HSK50/E	20	100	52	G2.5 20000	1 x 101601602
65EWHN25	HSK50/E	25	110	65	G2.5 20000	2 x 101802002
65EWHN32	HSK50/E	32	120	72	G2.5 20000	2 x 102002002
66EWHN06	HSK63/E	6	65	25	G2.5 20000	1 x 100601002
66EWHN08	HSK63/E	8	65	28	G2.5 20000	1 x 100801002
66EWHN10	HSK63/E	10	65	35	G2.5 20000	1 x 101001202
66EWHN12	HSK63/E	12	80	42	G2.5 20000	1 x 101201602
66EWHN14	HSK63/E	14	80	44	G2.5 20000	1 x 101201602
66EWHN16	HSK63/E	16	80	44	G2.5 20000	1 x 101401602
66EWHN18	HSK63/E	18	80	50	G2.5 20000	1 x 101401602
66EWHN20	HSK63/E	20	80	52	G2.5 20000	1 x 101601602
66EWHN25	HSK63/E	25	100	65	G2.5 20000	2 x 101802002
66EWHN32	HSK63/E	32	100	72	G2.5 20000	2 x 102002002



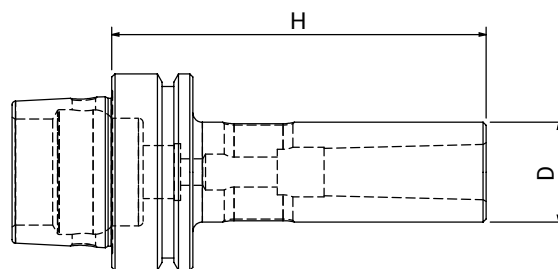
COD	CONO	D	H	D1	BILANCIATURA	1 - TASSELLO	2 - VITE	3 - VITE A CROCE
65EPF116	HSK50/E	16	50	38	G2.5 20000	2 x 916TSL01	2 x 110301001	916VTC02
65EPF122	HSK50/E	22	60	48	G2.5 20000	2 x 922TSL01	2 x 110301201	922VTC02
65EPF127	HSK50/E	27	60	58	G2.5 20000	2 x 927TSL01	2 x 110401601	927VTC02
65EPF132	HSK50/E	32	60	66	G2.5 20000	2 x 932TSL01	2 x 110601601	932VTC02
65EPF140	HSK50/E	40	70	80	G2.5 20000	2 x 940TSL01	2 x 110601601	940VTC02
66EPF116	HSK63/E	16	50	38	G2.5 20000	2 x 916TSL01	2 x 110301001	916VTC02
66EPF122	HSK63/E	22	50	48	G2.5 20000	2 x 922TSL01	2 x 110301201	922VTC02
66EPF127	HSK63/E	27	60	58	G2.5 20000	2 x 927TSL01	2 x 110401601	927VTC02
66EPF132	HSK63/E	32	60	66	G2.5 20000	2 x 932TSL01	2 x 110601601	932VTC02
66EPF140	HSK63/E	40	65	80	G2.5 20000	2 x 940TSL01	2 x 110601601	940VTC02
66EPF216	HSK63/E	16	100	38	G2.5 20000	2 x 916TSL01	2 x 110301001	916VTC02
66EPF222	HSK63/E	22	100	48	G2.5 20000	2 x 922TSL01	2 x 110301201	922VTC02
66EPF227	HSK63/E	27	100	58	G2.5 20000	2 x 927TSL01	2 x 110401601	927VTC02
66EPF232	HSK63/E	32	100	66	G2.5 20000	2 x 932TSL01	2 x 110601601	932VTC02
66EPF240	HSK63/E	40	100	80	G2.5 20000	2 x 940TSL01	2 x 110601601	940VTC02



COD	CONO	D	H	D1	BILANCIATURA	1 - TASSELLO	2 - VITE	3 - VITE A CROCE
66EPF316	HSK63/E	16	130	38	G2.5 20000	2 x 916TSL01	2 x 110301001	916VTC02
66EPF322	HSK63/E	22	130	48	G2.5 20000	2 x 922TSL01	2 x 110301201	922VTC02
66EPF327	HSK63/E	27	130	58	G2.5 20000	2 x 927TSL01	2 x 110401601	927VTC02
66EPF332	HSK63/E	32	130	66	G2.5 20000	2 x 932TSL01	2 x 110601601	932VTC02
66EPF340	HSK63/E	40	130	80	G2.5 20000	2 x 940TSL01	2 x 110601601	940VTC02
66EPF416	HSK63/E	16	160	38	G2.5 20000	2 x 916TSL01	2 x 110301001	916VTC02
66EPF422	HSK63/E	22	160	48	G2.5 20000	2 x 922TSL01	2 x 110301201	922VTC02
66EPF427	HSK63/E	27	160	58	G2.5 20000	2 x 927TSL01	2 x 110401601	927VTC02
66EPF432	HSK63/E	32	160	66	G2.5 20000	2 x 932TSL01	2 x 110601601	932VTC02
66EPF440	HSK63/E	40	160	80	G2.5 20000	2 x 940TSL01	2 x 110601601	940VTC02

MANDRINI ATTACCO CONO MORSE PUNTE
MORSE TAPER ADAPTORS FOR DRILLS
ZWISCHENHÜLSEN FÜR MORSEKEGEL MIT AUSTREIBLAPPEN
DOUILLES PUOR CONE MORSE A TENON

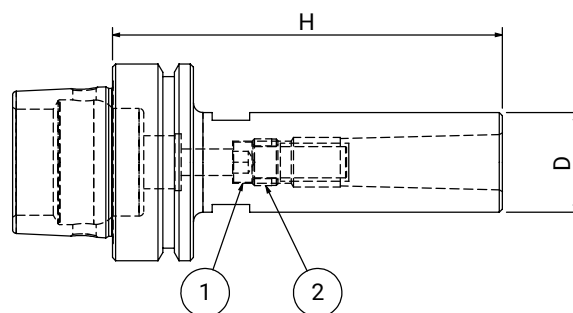
DIN 69893
HSK E
DIN 228-2



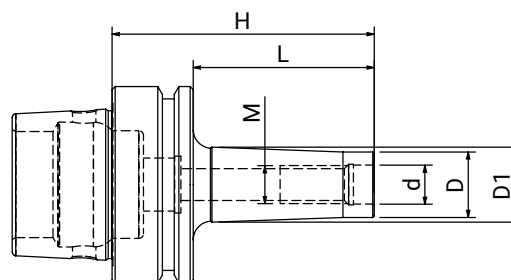
COD	CONO	MORSE	H	D
65EMP101	HSK50/E	1	100	25
65EMP102	HSK50/E	2	120	32
65EMP103	HSK50/E	3	140	40
65EMP104	HSK50/E	4	160	48
66EMP101	HSK63/E	1	100	25
66EMP102	HSK63/E	2	120	32
66EMP103	HSK63/E	3	140	40
66EMP104	HSK63/E	4	165	48

MANDRINI ATTACCO CONO MORSE FRESE
MORSE TAPER ADAPTORS WITH THREAD
ZWISCHENHÜLSEN FÜR MORSEKEGEL MIT ANZUGSGEWINDE
DOUILLES PUOR CONE MORSE AVEC TARAUDAGE

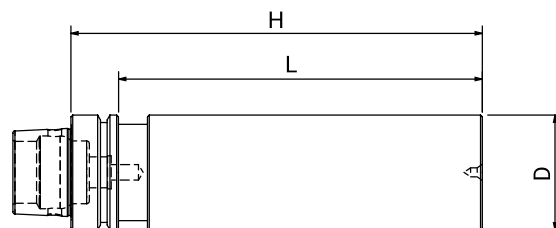
DIN 69893
HSK E
DIN 228-2



COD	CONO	MORSE	H	D	1 - VITE	2 - GHIERA
65EMF101	HSK50/E	1	105	25	121206502	110603501
65EMF102	HSK50/E	2	120	32	121500802	111003014
65EMF103	HSK50/E	3	140	40	122000903	111204003
66EMF101	HSK63/E	1	100	25	110603501	121206502
66EMF102	HSK63/E	2	125	32	111003014	121500802
66EMF103	HSK63/E	3	145	40	111204003	122000903
66EMF104	HSK63/E	4	165	48	111604514	122501204



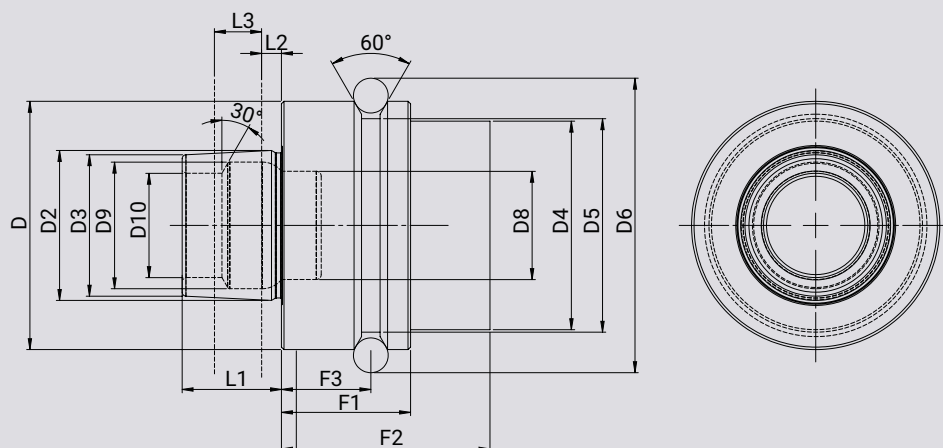
COD	CONO	M	H	L	d	D	D1	BILANCIATURA
66EAF106	HSK63/E	M6	59	33	6,5	9,7	9,7	G2.5 20000
66EAF108	HSK63/E	M8	59	33	8,5	13	15	G2.5 20000
66EAF110	HSK63/E	M10	59	33	10,5	18	20	G2.5 20000
66EAF112	HSK63/E	M12	59	33	12,5	21	24	G2.5 20000
66EAF116	HSK63/E	M16	59	33	17	29	34	G2.5 20000
66EAF206	HSK63/E	M6	84	58	6,5	9,7	20	G2.5 20000
66EAF208	HSK63/E	M8	84	58	8,5	13	23	G2.5 20000
66EAF210	HSK63/E	M10	84	58	10,5	18	25	G2.5 20000
66EAF212	HSK63/E	M12	84	58	12,5	21	24	G2.5 20000
66EAF216	HSK63/E	M16	84	58	17	29	34	G2.5 20000
66EAF306	HSK63/E	M6	109	83	6,5	9,7	23	G2.5 20000
66EAF308	HSK63/E	M8	109	83	8,5	13	23	G2.5 20000
66EAF310	HSK63/E	M10	109	83	10,5	18	28	G2.5 20000
66EAF312	HSK63/E	M12	109	83	12,5	21	31	G2.5 20000
66EAF316	HSK63/E	M16	109	83	17	29	34	G2.5 20000
66EAF408	HSK63/E	M8	134	108	8,5	13	25	G2.5 20000
66EAF410	HSK63/E	M10	134	108	10,5	18	30	G2.5 20000
66EAF412	HSK63/E	M12	134	108	12,5	21	31	G2.5 20000
66EAF416	HSK63/E	M16	134	108	17	29	39	G2.5 20000
66EAF512	HSK63/E	M12	159	133	12,5	21	31	G2.5 20000
66EAF516	HSK63/E	M16	159	133	17	29	39	G2.5 20000



COD	CONO	D	L	H
65EST250	HSK50/E	50	200	226
65EST263	HSK50/E	63	200	226
66EST263	HSK63/E	63	200	226
66EST380	HSK63/E	80	250	276

DIN 69893 HSK F





D	D2	D3	D4	D5 _{-0,1}	D6 _{-0,1}	D8 ^{H10}	D9 ^{H11}	D10	F1 _{-0,1}	F2 min.	F3 ^{+/- 0,1}	L1 _{-0,2}	L2	L3
50	30 +0,007/+0,005	29,05 +0,005/+0,003	42	43	59,3	21	25,5	23	26	42	18	20	4	9,5
63	38 +0,009/+0,006	36,90 +0,006/+0,003	53	53	72,3	26	32	29	26	42	18	25	5	11

Tutti i mandrini portautensili PAGNONI TOOLS vengono prodotti secondo le normative DIN
 All PAGNONI TOOLS toolholders are manufactured according to DIN norms
 Alle PAGNONI TOOLS Aufnahme sind nach DIN Norm produziert
 Tous les mandrins porte-outils PAGNONI TOOLS sont produits suivant les specifications DIN

DATI TECNICI

PRE-BILANCIATI:

- Grado di equilibratura aggiuntiva indicato a fianco della tabella dimensionale
- Mandrini alte velocità: a richiesta classe massima di equilibratura G 2,5 30000

MATERIALI E TRATTAMENTI:

- Acciaio da cementazione legato
- Temprati-rinvenuti
- HRC 58 ± 2 – profondità di indurimento 0,4-0,5 mm
- Resistenza 800-1000 N/mm²
- Bruniti dopo trattamento termico
- Rettificati internamente e esternamente

TECHNISCHE DATEN

VORGEWUCHTET:

- Neben der Übersichtstabelle der Produkte wird die Wuchtgüte angegeben
- Hochgeschwindigkeits Werkzeughalter: Aus Wuchtgüte G2,5 30000 auf Anfrage

WERKSTOFF UND OBERFLÄCHENBEHANDLUNGEN:

- Legierter Einsatzstahl
- Gehärtet und angelassen
- Einsatzgehärtet HRC 58 ± 2 , Härtetiefe 0,4-0,5 mm
- Festigkeit 800-1000 N/mm²
- Brüniert nach Wärmebehandlung
- Innen- und Außenschleifen

TECHNICAL FEATURES

PRE-BALANCED:

- Additional balancing grade beside dimensional table
- High-speed toolholders: balancing grade G 2,5 30000 on request

MATERIAL AND SURFACE TREATMENTS:

- Alloyed case-hardened steel
- Hardened-tempered
- Case hardened HRC 58 ± 2 - hardening depth 0,4-0,5 mm
- Strength 800-1000 N/mm²
- Black-finished after hardened
- Internal and external grinding

DONNE TECHNIQUES

PRÉ-ÉQUILIBRÉ:

- À côté du tableau de description et dimensions des produits il y a l'indication de la valeur d'équilibrage attentionnel
- Mandrins haute vitesse : sont équilibrés en classe G 2,5 à 30000 Tr/min-1 classe d'équilibrage maximale G 2,5 à 30000 Tr/min sur demande

MATÉRIAUX ET TRAITEMENTS:

- Acier de cémentation allié
- Temprés – Revenus
- Cémentation à HRC 58 ± 2 , profondeur de cémentation 0,4-0,5 mm
- Résistance 800-1000 N/mm²
- Bruni après traitement thermique
- Rectifié en interne et en externe



> PAG. 231



> PAG. 232



> PAG. 233



> PAG. 234



> PAG. 235



> PAG. 236



> PAG. 237



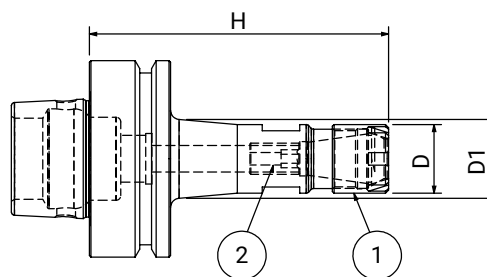
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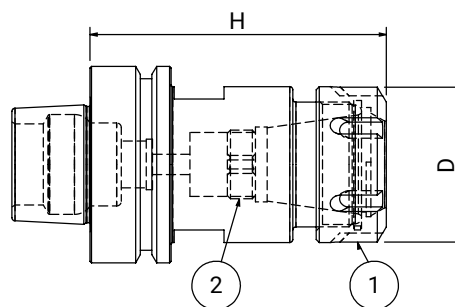
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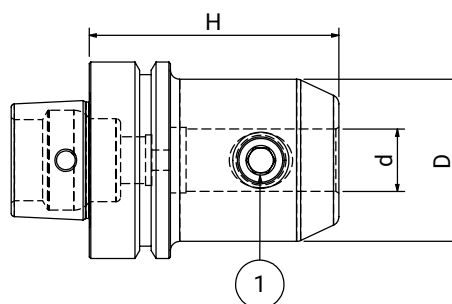
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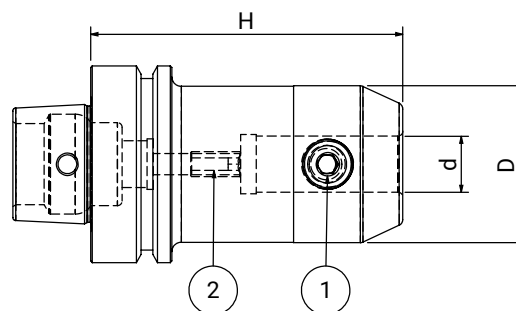
COD	CONO	TIPOLOGIA	H	D	D1	BILANCIATURA	1 - GHIERA	2 - GRANO INTERNO
65FPM207	HSK50/F	ER11MINI	100	16	20	G2.5 20000	911GHRMN	100601004
65FPM210	HSK50/F	ER16MINI	100	22	24	G2.5 20000	916GHRMN	101001601
65FPM407	HSK50/F	ER11MINI	160	16	20	G2.5 20000	911GHRMN	100601004
65FPM410	HSK50/F	ER16MINI	160	22	35	G2.5 20000	916GHRMN	101001601
66FPM207	HSK63/F	ER11MINI	100	16	20	G2.5 20000	911GHRMN	100601004
66FPM210	HSK63/F	ER16MINI	100	22	26	G2.5 20000	916GHRMN	101001601
66FPM213	HSK63/F	ER20MINI	100	28	32	G2.5 20000	920GHRMN	101001601
66FPM216	HSK63/F	ER25MINI	100	35	39	G2.5 20000	925GHRMN	101815801



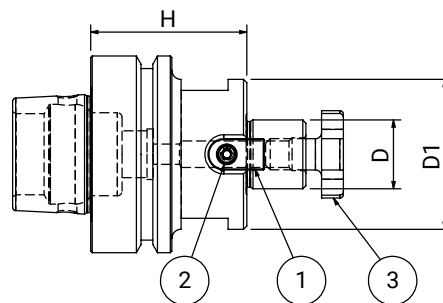
COD	CONO	TIPOLOGIA	H	D	BILANCIATURA	1 - GHIERA	2 - GRANO INTERNO
65FPP210	HSK50/F	ER16	100	32	G2.5 20000	916GHREQ	101001601
65FPP213	HSK50/F	ER20	100	35	G2.5 20000	920GHREQ	101001601
65FPP216	HSK50/F	ER25	100	42	G2.5 20000	925GHREQ	101815801
65FPP220	HSK50/F	ER32	100	50	G2.5 20000	932GHREQ	102215901
65FPP226	HSK50/F	ER40	100	63	G2.5 20000	940GHREQ	103015901
65FPP410	HSK50/F	ER16	160	32	G2.5 20000	916GHREQ	101001601
65FPP413	HSK50/F	ER20	160	35	G2.5 20000	920GHREQ	101001601
65FPP416	HSK50/F	ER25	160	42	G2.5 20000	925GHREQ	101815801
65FPP420	HSK50/F	ER32	160	50	G2.5 20000	932GHREQ	102215901
65FPP426	HSK50/F	ER40	160	63	G2.5 20000	940GHREQ	103015901
66FPP210	HSK63/F	ER16	100	32	G2.5 20000	916GHREQ	101001601
66FPP213	HSK63/F	ER20	100	35	G2.5 20000	920GHREQ	101001601
66FPP216	HSK63/F	ER25	100	42	G2.5 20000	925GHREQ	101815801
66FPP220	HSK63/F	ER32	100	50	G2.5 20000	932GHREQ	102215901
66FPP226	HSK63/F	ER40	100	63	G2.5 20000	940GHREQ	103015901
66FPP310	HSK63/F	ER16	120	32	G2.5 20000	916GHREQ	101001601
66FPP313	HSK63/F	ER20	120	35	G2.5 20000	920GHREQ	101001601
66FPP316	HSK63/F	ER25	120	42	G2.5 20000	925GHREQ	101815801
66FPP320	HSK63/F	ER32	120	50	G2.5 20000	932GHREQ	102215901
66FPP326	HSK63/F	ER40	120	63	G2.5 20000	940GHREQ	103015901
66FPP410	HSK63/F	ER16	160	32	G2.5 20000	916GHREQ	101001601
66FPP413	HSK63/F	ER20	160	35	G2.5 20000	920GHREQ	101001601
66FPP416	HSK63/F	ER25	160	42	G2.5 20000	925GHREQ	101815801
66FPP420	HSK63/F	ER32	160	50	G2.5 20000	932GHREQ	102215901
66FPP426	HSK63/F	ER40	160	63	G2.5 20000	940GHREQ	103015901



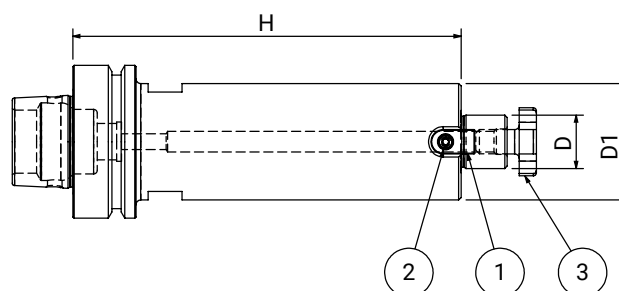
COD	CONO	d	H	D	BILANCIATURA	1 - GRANO
65FWLD06	HSK50/F	6	65	25	G2.5 20000	1 x 100601002
65FWLD08	HSK50/F	8	65	28	G2.5 20000	1 x 100801002
65FWLD10	HSK50/F	10	70	35	G2.5 20000	1 x 101001202
65FWLD12	HSK50/F	12	80	42	G2.5 20000	1 x 101201602
65FWLD14	HSK50/F	14	80	44	G2.5 20000	1 x 101201602
65FWLD16	HSK50/F	16	80	48	G2.5 20000	1 x 101401602
65FWLD18	HSK50/F	18	80	50	G2.5 20000	1 x 101401602
65FWLD20	HSK50/F	20	80	52	G2.5 20000	1 x 101601602
65FWLD25	HSK50/F	25	105	65	G2.5 20000	2 x 101802002
66FWLD06	HSK63/F	6	65	25	G2.5 20000	1 x 100601002
66FWLD08	HSK63/F	8	65	28	G2.5 20000	1 x 100801002
66FWLD10	HSK63/F	10	65	35	G2.5 20000	1 x 101001202
66FWLD12	HSK63/F	12	80	42	G2.5 20000	1 x 101201602
66FWLD14	HSK63/F	14	80	44	G2.5 20000	1 x 101201602
66FWLD16	HSK63/F	16	80	48	G2.5 20000	1 x 101401602
66FWLD18	HSK63/F	18	80	50	G2.5 20000	1 x 101401602
66FWLD20	HSK63/F	20	80	52	G2.5 20000	1 x 101601602
66FWLD25	HSK63/F	25	110	65	G2.5 20000	2 x 101802002
66FWLD32	HSK63/F	32	110	72	G2.5 20000	2 x 102002002
66FWE206	HSK63/F	6	100	25	G2.5 20000	1 x 100601002
66FWE208	HSK63/F	8	100	28	G2.5 20000	1 x 100801002
66FWE210	HSK63/F	10	100	35	G2.5 20000	1 x 101001202
66FWE212	HSK63/F	12	100	42	G2.5 20000	1 x 101201602
66FWE214	HSK63/F	14	100	44	G2.5 20000	1 x 101201602
66FWE216	HSK63/F	16	100	48	G2.5 20000	1 x 101401602
66FWE218	HSK63/F	18	100	50	G2.5 20000	1 x 101401602
66FWE220	HSK63/F	20	100	52	G2.5 20000	1 x 101601602
66FWE406	HSK63/F	6	160	25	G2.5 20000	1 x 100601002
66FWE408	HSK63/F	8	160	28	G2.5 20000	1 x 100801002
66FWE410	HSK63/F	10	160	35	G2.5 20000	1 x 101001202
66FWE412	HSK63/F	12	160	42	G2.5 20000	1 x 101201602
66FWE414	HSK63/F	14	160	44	G2.5 20000	1 x 101201602
66FWE416	HSK63/F	16	160	48	G2.5 20000	1 x 101401602
66FWE418	HSK63/F	18	160	50	G2.5 20000	1 x 101401602
66FWE420	HSK63/F	20	160	52	G2.5 20000	1 x 101601602
66FWE425	HSK63/F	25	160	65	G2.5 20000	2 x 101802002
66FWE432	HSK63/F	32	160	72	G2.5 20000	2 x 102002002
66FWE440	HSK63/F	40	160	80	G2.5 20000	2 x 102002002



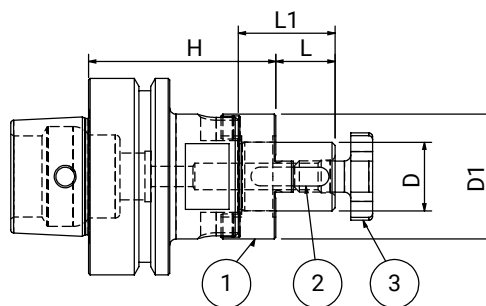
COD	CONO	d	H	D	BILANCIATURA	1 - GRANO
65FWHN06	HSK50/F	6	80	25	G2.5 20000	1 x 100601002
65FWHN08	HSK50/F	8	80	28	G2.5 20000	1 x 100801002
65FWHN10	HSK50/F	10	80	35	G2.5 20000	1 x 101001202
65FWHN12	HSK50/F	12	90	42	G2.5 20000	1 x 101201602
65FWHN14	HSK50/F	14	90	44	G2.5 20000	1 x 101201602
65FWHN16	HSK50/F	16	100	48	G2.5 20000	1 x 101401602
65FWHN18	HSK50/F	18	100	50	G2.5 20000	1 x 101401602
65FWHN20	HSK50/F	20	100	52	G2.5 20000	1 x 101601602
65FWHN25	HSK50/F	25	110	65	G2.5 20000	2 x 101802002
65FWHN32	HSK50/F	32	120	72	G2.5 20000	2 x 102002002
66FWHN06	HSK63/F	6	80	25	G2.5 20000	1 x 100601002
66FWHN08	HSK63/F	8	80	28	G2.5 20000	1 x 100801002
66FWHN10	HSK63/F	10	80	35	G2.5 20000	1 x 101001202
66FWHN12	HSK63/F	12	90	42	G2.5 20000	1 x 101201602
66FWHN14	HSK63/F	14	90	44	G2.5 20000	1 x 101201602
66FWHN16	HSK63/F	16	100	48	G2.5 20000	1 x 101401602
66FWHN18	HSK63/F	18	100	50	G2.5 20000	1 x 101401602
66FWHN20	HSK63/F	20	100	52	G2.5 20000	1 x 101601602
66FWHN25	HSK63/F	25	110	65	G2.5 20000	2 x 101802002
66FWHN32	HSK63/F	32	115	72	G2.5 20000	2 x 102002002



COD	CONO	D	H	D1	BILANCIATURA	1 - TASSELLO	2 - VITE	3 - VITE A CROCE
65FPF116	HSK50/F	16	50	38	G2.5 20000	2 x 916TSL01	2 x 110301001	916VTC02
65FPF122	HSK50/F	22	50	48	G2.5 20000	2 x 922TSL01	2 x 110301201	922VTC02
65FPF127	HSK50/F	27	60	58	G2.5 20000	2 x 927TSL01	2 x 110401601	927VTC02
65FPF132	HSK50/F	32	60	66	G2.5 20000	2 x 932TSL01	2 x 110601601	932VTC02
65FPF140	HSK50/F	40	70	80	G2.5 20000	2 x 940TSL01	2 x 110601601	940VTC02
66FPF116	HSK63/F	16	50	38	G2.5 20000	2 x 916TSL01	2 x 110301001	916VTC02
66FPF122	HSK63/F	22	50	48	G2.5 20000	2 x 922TSL01	2 x 110301201	922VTC02
66FPF127	HSK63/F	27	60	58	G2.5 20000	2 x 927TSL01	2 x 110401601	927VTC02
66FPF132	HSK63/F	32	60	63	G2.5 20000	2 x 932TSL01	2 x 110601601	932VTC02
66FPF140	HSK63/F	40	60	80	G2.5 20000	2 x 940TSL01	2 x 110601601	940VTC02
66FPF216	HSK63/F	16	100	38	G2.5 20000	2 x 916TSL01	2 x 110301001	916VTC02
66FPF222	HSK63/F	22	100	48	G2.5 20000	2 x 922TSL01	2 x 110301201	922VTC02
66FPF227	HSK63/F	27	100	58	G2.5 20000	2 x 927TSL01	2 x 110401601	927VTC02
66FPF232	HSK63/F	32	100	66	G2.5 20000	2 x 932TSL01	2 x 110601601	932VTC02
66FPF240	HSK63/F	40	100	80	G2.5 20000	2 x 940TSL01	2 x 110601601	940VTC02



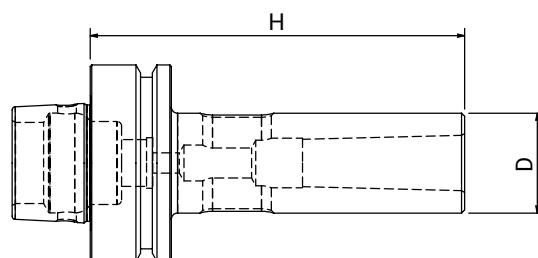
COD	CONO	D	H	D1	BILANCIATURA	1 - TASSELLO	2 - VITE	3 - VITE A CROCE
66FPF316	HSK63/F	16	130	38	G2.5 20000	2 x 916TSL01	2 x 110301001	916VTC02
66FPF322	HSK63/F	22	130	48	G2.5 20000	2 x 922TSL01	2 x 110301201	922VTC02
66FPF327	HSK63/F	27	130	58	G2.5 20000	2 x 927TSL01	2 x 110401601	927VTC02
66FPF332	HSK63/F	32	130	66	G2.5 20000	2 x 932TSL01	2 x 110601601	932VTC02
66FPF340	HSK63/F	40	130	80	G2.5 20000	2 x 940TSL01	2 x 110601601	940VTC02
66FPF416	HSK63/F	16	160	38	G2.5 20000	2 x 916TSL01	2 x 110301001	916VTC02
66FPF422	HSK63/F	22	160	48	G2.5 20000	2 x 922TSL01	2 x 110301201	922VTC02
66FPF427	HSK63/F	27	160	58	G2.5 20000	2 x 927TSL01	2 x 110401601	927VTC02
66FPF432	HSK63/F	32	160	66	G2.5 20000	2 x 932TSL01	2 x 110601601	932VTC02
66FPF440	HSK63/F	40	160	80	G2.5 20000	2 x 940TSL01	2 x 110601601	940VTC02



COD	CONO	D	H	L	L1	D1	1 - GIUNTO	2 - LINGUETTA	3 - VITE A CROCE
66FPU116	HSK63/F	16	60	17	27	32	916GNT01	170402004	916VTC02
66FPU122	HSK63/F	22	60	19	31	40	922GNT01	170602506	922VTC02
66FPU127	HSK63/F	27	60	21	33	48	927GNT01	170702507	927VTC02
66FPU132	HSK63/F	32	60	24	38	58	932GNT01	170802807	932VTC02
66FPU140	HSK63/F	40	70	27	41	70	940GNT01	171003208	940VTC02
66FPU416	HSK63/F	16	160	17	27	32	916GNT01	170402004	916VTC02
66FPU422	HSK63/F	22	160	19	31	40	922GNT01	170602506	922VTC02
66FPU427	HSK63/F	27	160	21	33	48	927GNT01	170702507	927VTC02
66FPU432	HSK63/F	32	160	24	38	58	932GNT01	170802807	932VTC02
66FPU440	HSK63/F	40	160	27	41	70	940GNT01	171003208	940VTC02

MANDRINI ATTACCO CONO MORSE PUNTE
MORSE TAPER ADAPTORS FOR DRILLS
ZWISCHENHÜLSEN FÜR MORSEKEGEL MIT AUSTREIBLAPPEN
DOUILLES PUOR CONE MORSE A TENON

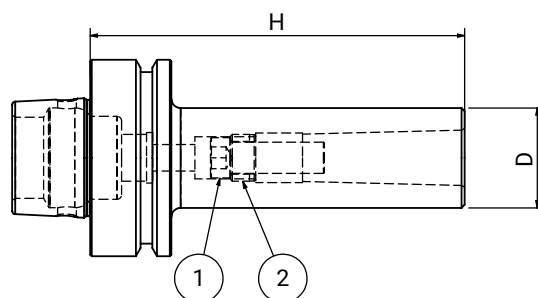
DIN 69893
HSK F
DIN 228-2



COD	CONO	MORSE	H	D
65FMP101	HSK50/F	1	100	25
65FMP102	HSK50/F	2	120	32
65FMP103	HSK50/F	3	140	40
65FMP104	HSK50/F	4	160	48
66FMP101	HSK63/F	1	100	25
66FMP102	HSK63/F	2	120	32
66FMP103	HSK63/F	3	140	40
66FMP104	HSK63/F	4	165	48

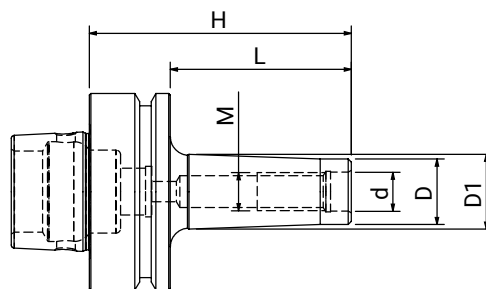
MANDRINI ATTACCO CONO MORSE FRESE
MORSE TAPER ADAPTORS WITH THREAD
ZWISCHENHÜLSEN FÜR MORSEKEGEL MIT ANZUGSGEWINDE
DOUILLES PUOR CONE MORSE AVEC TARAUDAGE

DIN 69893
HSK F
DIN 228-2

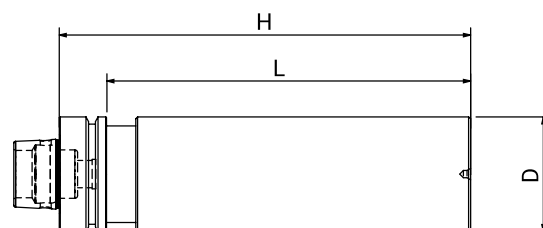


COD	CONO	MORSE	H	D	1 - VITE	2 - GHIERA
65FMF101	HSK50/F	1	100	25	110603501	121206502
65FMF102	HSK50/F	2	120	32	111003014	121500802
65FMF103	HSK50/F	3	140	40	111204003	122000903
66FMF101	HSK63/F	1	100	25	110603501	-
66FMF102	HSK63/F	2	120	32	111003014	121500802
66FMF103	HSK63/F	3	140	40	111204016	122000903
66FMF104	HSK63/F	4	160	48	111604516	122501204

DIN 69893
HSK F



COD	CONO	M	H	L	d	D	D1	BILANCIATURA
66FAF106	HSK63/F	M6	59	33	6,5	9,7	9,7	G2.5 20000
66FAF108	HSK63/F	M8	59	33	8,5	13	15	G2.5 20000
66FAF110	HSK63/F	M10	59	33	10,5	18	20	G2.5 20000
66FAF112	HSK63/F	M12	59	33	12,5	21	24	G2.5 20000
66FAF116	HSK63/F	M16	59	33	17	29	34	G2.5 20000
66FAF206	HSK63/F	M6	84	58	6,5	9,7	20	G2.5 20000
66FAF208	HSK63/F	M8	84	58	8,5	13	23	G2.5 20000
66FAF210	HSK63/F	M10	84	58	10,5	18	25	G2.5 20000
66FAF212	HSK63/F	M12	84	58	12,5	21	24	G2.5 20000
66FAF216	HSK63/F	M16	84	58	17	29	34	G2.5 20000
66FAF306	HSK63/F	M6	109	83	6,5	9,7	23	G2.5 20000
66FAF308	HSK63/F	M8	109	83	8,5	13	23	G2.5 20000
66FAF310	HSK63/F	M10	109	83	10,5	18	28	G2.5 20000
66FAF312	HSK63/F	M12	109	83	12,5	21	31	G2.5 20000
66FAF316	HSK63/F	M16	109	83	17	29	34	G2.5 20000
66FAF408	HSK63/F	M8	134	108	8,5	13	25	G2.5 20000
66FAF410	HSK63/F	M10	134	108	10,5	18	30	G2.5 20000
66FAF412	HSK63/F	M12	134	108	12,5	21	31	G2.5 20000
66FAF416	HSK63/F	M16	134	108	17	29	39	G2.5 20000



COD	CONO	D	L	H
65FST250	HSK50/F	50	200	226
65FST263	HSK50/F	63	200	226
66FST263	HSK63/F	63	200	226
66FST380	HSK63/F	80	250	276

ADATTATORI MODULARI
MODULAR ADAPTOR
MODULARER ADAPTER
ADAPTATEUR MODULAIRE



ADATTATORI MODULARI
MODULAR ADAPTOR
MODULARER ADAPTER
ADAPTATEUR MODULAIRE



> PAG. 243



> PAG. 244



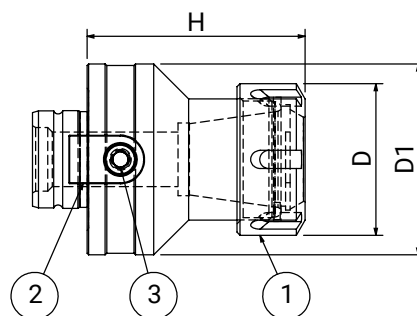
> PAG. 245



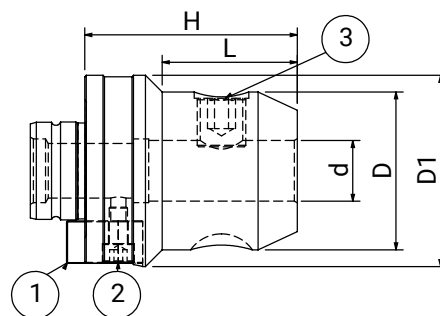
> PAG. 246



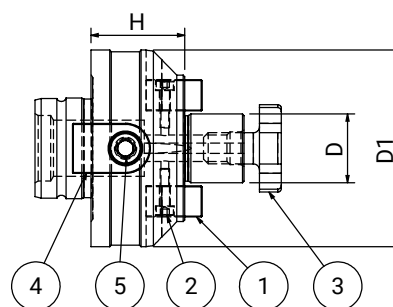
> PAG. 247



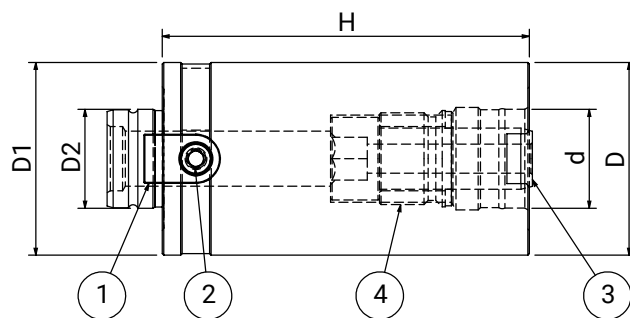
COD	TIPOLOGIA	D	H	D1	1 - GHIERA	2 - TASSELLO	3 - VITE
VL5PP113	ER20	50	63	35	920GHREQ	927TSL03	110401601
VL5PP116	ER25	50	63	42	925GHREQ	927TSL03	110401601
VL5PP120	ER32	50	65	50	932GHREQ	927TSL03	110401601
VL6PP120	ER32	63	77	50	932GHREQ	940TSL06	110601201
VL6PP126	ER40	63	86	63	940GHREQ	940TSL06	110601201
VL8PP126	ER40	63	90	62	940GHREQ	940TSL01	110601601



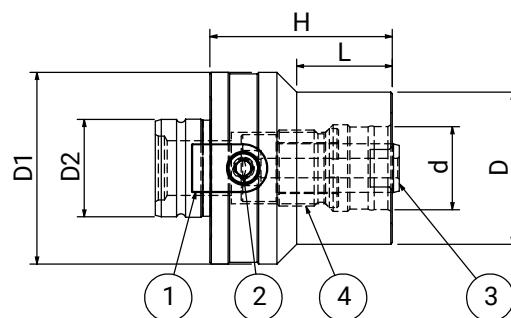
COD	d	H	D	D1	L	1 - TASSELLO	2 - VITE	3 - GRANO
VL5WLD06	6	50	25	50	25	927TSL03	110401201	100601002
VL5WLD08	8	50	28	50	25	927TSL03	110401201	100801002
VL5WLD10	10	50	38	50	28	927TSL03	110401201	101001202
VL5WLD12	12	60	42	50	36	927TSL03	110401201	101201602
VL5WLD14	14	60	44	50	37	927TSL03	110401201	101201602
VL5WLD16	16	60	48	50	39	927TSL03	110401201	101401602
VL5WLD18	18	60	50	50	45	927TSL03	110401201	101401602
VL5WLD20	20	62	52	50	47	927TSL03	110401201	101601602
VL5WLD25	25	80	65	50	66	927TSL03	110401201	101802002
VL6WLD10	10	70	35	63	36	940TSL06	110601201	101001202
VL6WLD12	12	70	42	63	39,5	940TSL06	110601201	101201602
VL6WLD14	14	70	44	63	40,5	940TSL06	110601201	101201602
VL6WLD16	16	70	48	63	42,5	940TSL06	110601201	101401602
VL6WLD18	18	70	50	63	43,5	940TSL06	110601201	101401602
VL6WLD20	20	70	52	63	44,5	940TSL06	110601201	101601602
VL6WLD25	25	80	62	63	59,5	940TSL06	110601201	101802002
VL6WLD32	38	80	63	63	64,5	940TSL06	110601201	102002002
VL6WLD40	40	90	80	63	70	940TSL06	110601201	102002002
VL8WLD16	16	70	48	80	32	940TSL01	110601601	101401602
VL8WLD20	20	70	52	80	34	940TSL01	110601601	101601602
VL8WLD25	25	80	65	80	50,5	940TSL01	110601601	101802002
VL8WLD32	32	80	72	80	54	940TSL01	110601601	102002002
VL8WLD40	40	90	79	80	67,5	940TSL01	110601601	102002002



COD	D	H	D1	1 - TASSELLO	2 - VITE	3 - VITE A CROCE	4 - TASSELLO	5 - VITE
VL5PF116	50	30	16	2 x 916TSL01	2 x 110301001	1 x 916VTC02	1 x 927TSL03	1 x 110401201
VL5PF122	50	20	22	2 x 922TSL01	2 x 110301201	1 x 922VTC02	1 x 927TSL03	1 x 110401201
VL5PF127	50	20	27	2 x 927TSL01	2 x 110401601	1 x 927VTC02	1 x 927TSL03	1 x 110401201
VL5PF132	50	25	32	2 x 932TSL01	2 x 110601601	1 x 932VTC02	1 x 927TSL03	1 x 110401201
VL6PF122	63	30	22	2 x 922TSL01	2 x 110301201	1 x 922VTC02	1 x 940TSL06	1 x 110601201
VL6PF127	63	30	27	2 x 927TSL01	2 x 110401601	1 x 927VTC02	1 x 940TSL06	1 x 110601201
VL6PF132	63	30	32	2 x 932TSL01	2 x 110601601	1 x 932VTC02	1 x 940TSL06	1 x 110601201
VL6PF140	63	30	40	2 x 940TSL01	2 x 110601601	1 x 940VTC02	1 x 940TSL06	1 x 110601201
VL8PF127	80	30	27	2 x 927TSL01	2 x 110401201	1 x 927VTC02	1 x 940TSL01	1 x 110601601
VL8PF132	80	30	32	2 x 932TSL01	2 x 110401601	1 x 932VTC02	1 x 940TSL01	1 x 110601601
VL8PF140	80	30	40	2 x 940TSL01	2 x 110601601	1 x 940VTC02	1 x 940TSL01	1 x 110601601



COD	D	H	d	D1	D2	1 - TASSELLO	2 - VITE	3 - VITE	4 - GHIERA
VL5PR060	50	60	27	50	27	927TSL03	111604011	110401201	122502007
VL5PR080	50	80	27	50	27	927TSL03	111604011	110401201	122502007
VL5PR100	50	100	27	50	27	927TSL03	111604011	110401201	122502007
VL6PR080	63	80	32	63	32	940TSL06	110601201	112005012	123002408
VL6PR120	63	120	32	63	32	940TSL06	110601201	112005012	123002408
VL8PR080	80	80	32	80	32	940TSL01	110601601	112005011	123002408
VL8PR100	80	100	32	80	32	940TSL01	110601601	112005011	123002408
VL8PR120	80	120	32	80	32	940TSL01	110601601	112005011	123002408
VL8PR140	80	140	32	80	32	940TSL01	110601601	112005011	123002408
VL8PR160	80	160	32	80	32	940TSL01	110601601	112005011	123002408



COD	D1	H	L	D	D2	d	1 - TASSELLO	2 - VITE	3 - VITE	4 - GHIERA
VL6RD050	63	60	31,5	50	32	27	940TSL03	110601201	111604011	122502007
VL8RD163	80	80	49,5	63	32	32	112005011	123002408	110601601	940TSL01

MANDRINI CON ATTACCO CILINDRICO
COLLET CHUCKS WITH STRAIGHT SHANK
SPANNFUTTER MIT ZYLINDERSCHAFT
MANDRINS A PINCES A QUEUE CYLINDRIQUE



MANDRINI CON ATTACCO CILINDRICO
COLLET CHUCKS WITH STRAIGHT SHANK
SPANNFUTTER MIT ZYLINDERSCHAFT
MANDRINS A PINCES A QUEUE CYLINDRIQUE



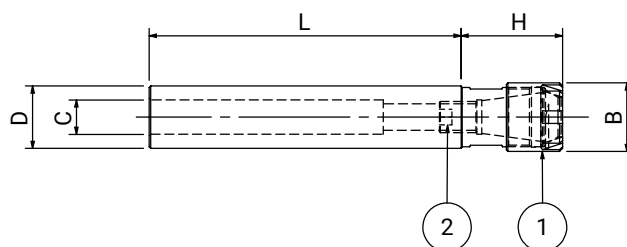
> PAG. 251



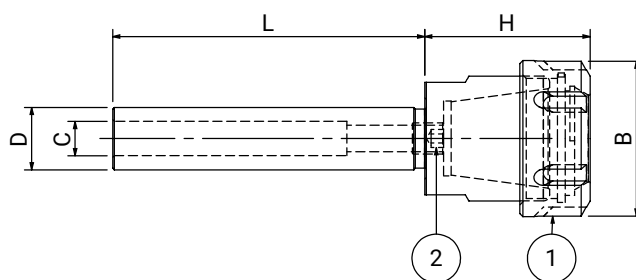
> PAG. 252



> PAG. 253



COD	TIPOLOGIA	D	H	L	B	C	1 - GHIERA	1 - GRANO INTERNO
706PM107	ER11MINI	6	37,1	45	16	-	911GHRMN	-
708PM207	ER11MINI	8	37,1	100	16	-	911GHRMN	-
710PM207	ER11MINI	10	25,6	100	16	-	911GHRMN	-
710PM210	ER16MINI	10	37,6	100	22	-	916GHRMN	-
712PM207	ER11MINI	12	25,6	100	16	-	911GHRMN	-
712PM310	ER16MINI	12	37,6	120	22	-	916GHRMN	-
716PM210	ER16MINI	16	37,6	100	22	7,5	916GHRMN	100600604
716PM410	ER16MINI	16	37,6	160	22	7,5	916GHRMN	100600604
720PM210	ER16MINI	20	37,6	100	22	11	916GHRMN	101001204
720PM216	ER25MINI	20	46	100	35	11	925GHRMN	101001204
720PM410	ER16MINI	20	40,6	160	22	12	916GHRMN	101001204
725PM210	ER16MINI	25	30,6	100	22	15	916GHRMN	101001204
725PM213	ER25MINI	25	40	100	28	15	920GHRMN	101001604
725PM316	ER25MINI	25	52	130	35	15	925GHRMN	101001604
725PM410	ER16MINI	25	30,6	160	22	15	916GHRMN	101001204

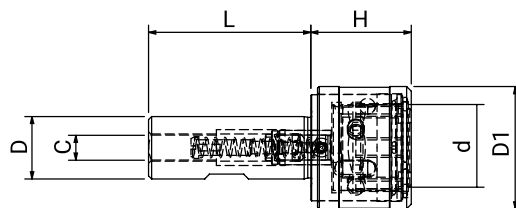


COD	TIPOLOGIA	D	H	L	B	C	1 - GHIERA	1 - GRANO INTERNO
716PP110	ER16	16	37,6	60	32	7	916GHREQ	100600604
716PP210	ER16	16	37,6	100	32	7,5	916GHREQ	100601004
720PP210	ER16	20	40,6	100	32	12	916GHREQ	101001204
720PP220	ER32	20	53	100	50	11	932GHREQ	101001204
725PP216	ER25	25	40	100	42	15	925GHREQ	101201004
725PP316	ER25	25	40	150	42	15	925GHREQ	101201004
725PP416	ER25	25	40	160	42	15	925GHREQ	101201004
725PP420	ER32	25	53	160	50	15	932GHREQ	101201604
732PP220	ER32	32	53	100	50	20	932GHREQ	101601604
732PP226	ER40	32	61	100	63	20	940GHREQ	101601604
732PP320	ER32	32	53	150	50	20	932GHREQ	101601604
732PP420	ER32	32	53	160	50	20	932GHREQ	101601604
740PP220	ER32	40	53	100	50	25	932GHREQ	101601604
740PP326	ER40	40	65	130	63	25	940GHREQ	101601604

MANDRINI PORTAMASCHI A DOPPIA COMPENSAZIONE
QUICK-CHANGE TAPPING CHUCKS WITH LENGTH COMPENSATION
GEWINDESCHNEID - SCHNELLWECHSELEIN FÜTTER MIT LÄNGENAUSGLEICH
MANDRINS DE TARAUDAGE AVEC COMPENSATION LONGITUDINALE

ATTACCO CILINDRICO

DIN 1835 B+E



COD	RANGE	SIZE	D	L	C	H	d	D1
720PCRM1	M3-M12	GR.1	20	52	8	40,5	19	39,2
725PCRM1	M3-M12	GR.1	25	60	8	40,5	19	39,2
725PCRM2	M6-M20	GR.2	25	60	9,5	76,5	31	54,5
732PCRM2	M6-M20	GR.2	32	60	9,5	76,5	31	54,5

**ACCESSORI
ACCESSORIES
ZUBEHÖR
ACCESSOIRES**



ACCESSORI
ACCESSORIES
ZUBEHÖR
ACCESSOIRES



> PAG. 257



> PAG. 258



> PAG. 259



> PAG. 260



> PAG. 264



> PAG. 268



> PAG. 270



> PAG. 270



> PAG. 271



> PAG. 271



> PAG. 272



> PAG. 276



> PAG. 276



> PAG. 277



> PAG. 277



> PAG. 278



> PAG. 279



> PAG. 280



> PAG. 280



> PAG. 281



> PAG. 281



> PAG. 281

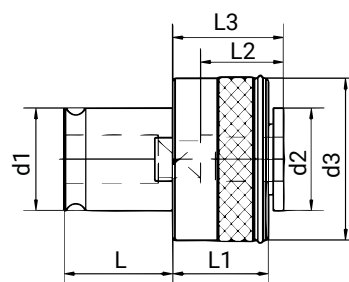


> PAG. 282



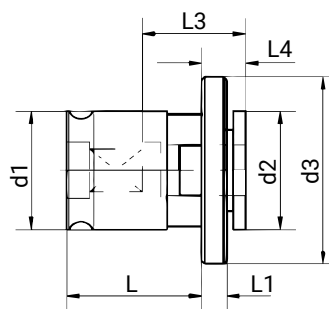
> PAG. 282

BUSSOLE PER MASCHIARE CON FRIZIONE
QUICK CHANGE TAPPING ADAPTERS WITH SAFETY COUPLING
SCHNELL WECHSELEINSAETZE MIT SICHERHEITSKUPPLUNG
ADAPTEURS A CHANGEMENT RAPIDE AVEC COUPLAGE DE SECURITÉ



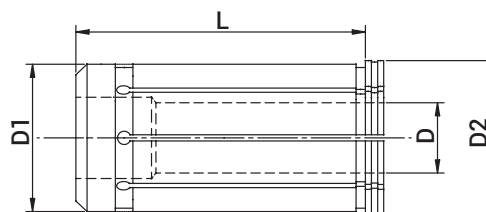
COD	C	SIZE	d1	d2	d3	L	L1	L2	L3
BCF1-3.5	3,5x2,7	M3	19	19	32	21,5	25	17	25
BCF1-4.5	4,5x3,4	M4	19	19	32	21,5	25	17	25
BCF1-5.5	5,5x4,3	M6	19	19	32	21,5	25	17	25
BCF1-6.0	6x4,9	M5 - M6	19	19	32	21,5	25	17	25
BCF1-7.0	7x5,5	M10	19	19	32	21,5	25	17	25
BCF1-8.0	8x6,2	M8	19	19	32	21,5	25	17	25
BCF1-9.0	9x7,0	M12	19	19	32	21,5	25	17	25
BCF1-10.0	10x8,0	M10	19	19	32	21,5	25	17	25
BCF1-11.0	11x9,0	M12	19	19	32	21,5	25	17	25
BCF2-6.0	6x4,9	M5 - M6 - M8	31	30	50	35	31	30	34
BCF2-7.0	7x5,5	M10	31	30	50	35	31	30	34
BCF2-8.0	8x6,2	M8	31	30	50	35	31	30	34
BCF2-9.0	9x7,0	M12	31	30	50	35	31	30	34
BCF2-10.0	10x8,0	M10	31	30	50	35	31	30	34
BCF2-11.0	11x9,0	M14	31	30	50	35	31	30	34
BCF2-12.0	12x9,0	M12	31	30	50	35	31	30	34
BCF2-14.0	14x11,0	M18	31	30	50	35	31	30	34
BCF2-16.0	16x12,0	M20	31	30	50	35	31	30	34
BCF2-18.0	18x14,6	M22	31	30	50	35	31	30	34

BUSSOLE PER MASCHIARE SENZA FRIZIONE
QUICK CHANGE TAPPING ADAPTERS WITHOUT SAFETY COUPLING
SCHNELL WECHSELEINSAETZE OHNE SICHERHEITSKUPPLUNG
ADAPTEURS A CHANGEMENT RAPIDE SANS COUPLAGE DE SECURITÉ

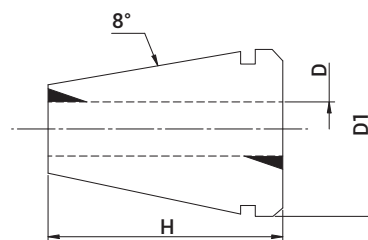


COD	C	SIZE	d1	d2	d3	L	L1	L2	L3
BSF1-2.8	2,8x2,1	M2 - M2,2 - M2,5	19	19	30	21,5	4	17	7
BSF1-3.5	3,5x2,7	M3 - M5	19	19	30	21,5	4	17	7
BSF1-4.0	4x3,0	M3,5	19	19	30	21,5	4	17	7
BSF1-4.5	4,5x3,4	M4 - M6	19	19	30	21,5	4	17	7
BSF1-5.0	5x4,0	M5	19	19	30	21,5	4	17	7
BSF1-6.0	6x4,9	M5 - M6 - M8	19	19	30	21,5	4	17	7
BSF1-7.0	7x5,5	M10	19	19	30	21,5	4	17	7
BSF1-8.0	8x6,2	M8	19	19	30	21,5	4	17	7
BSF1-9.0	9x7,0	M12	19	19	30	21,5	4	17	7
BSF1-10.0	10x8,0	M10	19	19	30	21,5	4	17	7
BSF1-11.0	11x9,0	M14	19	19	30	21,5	4	17	7
BSF2-6.0	6x4,9	M5 - M6 - M8	31	30	48	35	5	30	11
BSF2-7.0	7x5,5	M10	31	30	48	35	5	30	11
BSF2-8.0	8x6,2	M8	31	30	48	35	5	30	11
BSF2-9.0	9x7,0	M12	31	30	48	35	5	30	11
BSF2-10.0	10x9,0	M10	31	30	48	35	5	30	11
BSF2-11.0	11x9,0	M14	31	30	48	35	5	30	11
BSF2-12.0	12x9,0	M16	31	30	48	35	5	30	11
BSF2-14.0	14x11,0	M18	31	30	48	35	5	30	11
BSF2-16.0	16x12,0	M20	31	30	48	35	5	30	11
BSF2-18.0	18x14,6	M22 - M24	31	30	48	35	5	30	11
BSF2-20.0	20x16,0	M27 - M30	31	30	48	35	5	30	11

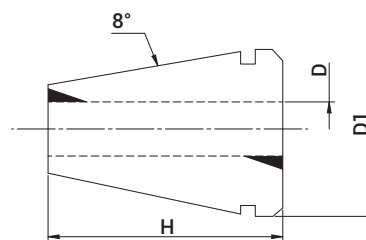
PINZE PER MANDRINI A FORTE SERRAGGIO
HEAVY DUTY MILLING CHUCKS COLLETS
SPANNZANGEN FÜR KRAFTSPANNFUTTER
PINCES POUR MANDRINS À FORT SERRAGE



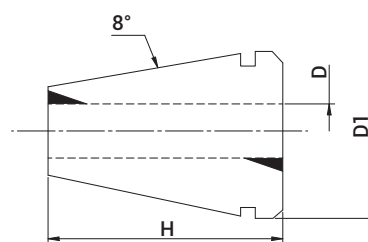
COD	D1	D2	L	D
912BFS03	12	19	42,5	3
912BFS04	12	19	42,5	4
912BFS06	12	19	42,5	6
912BFS08	12	19	42,5	8
912BFS10	12	19	42,5	10
916BFS03	16	19	46	3
916BFS04	16	19	46	4
916BFS06	16	19	46	6
916BFS08	16	19	46	8
916BFS10	16	19	46	10
916BFS12	16	19	46	12
920BFS06	20	24	50	6
920BFS08	20	24	50	8
920BFS10	20	24	50	10
920BFS12	20	24	50	12
920BFS16	20	24	50	16
932BFS06	32	37	62	6
932BFS08	32	37	62	8
932BFS10	32	37	62	10
932BFS12	32	37	62	12
932BFS16	32	37	62	16
932BFS20	32	37	62	20
932BFS25	32	37	62	25



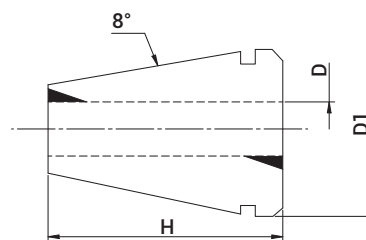
COD	TIPO PINZA	D	H	D1
908ER010	ER8	1-0,5	13,5	8,5
908ER015	ER8	1,5-1	13,5	8,5
908ER020	ER8	2-1,5	13,5	8,5
908ER025	ER8	2,5-2	13,5	8,5
908ER030	ER8	3-2,5	13,5	8,5
908ER035	ER8	3,5-3	13,5	8,5
908ER040	ER8	4-3,5	13,5	8,5
908ER045	ER8	4,5-4	13,5	8,5
908ER050	ER8	5-4,5	13,5	8,5
911ER010	ER11	1-0,5	18	11,5
911ER015	ER11	1,5-1	18	11,5
911ER020	ER11	2-1,5	18	11,5
911ER025	ER11	2,5-2	18	11,5
911ER030	ER11	3-2,5	18	11,5
911ER035	ER11	3,5-3	18	11,5
911ER040	ER11	4-3,5	18	11,5
911ER045	ER11	4,5-4	18	11,5
911ER050	ER11	5-4,5	18	11,5
911ER055	ER11	5,5-5	18	11,5
911ER060	ER11	6-5,5	18	11,5
911ER065	ER11	6,5-6	18	11,5
911ER070	ER11	7-6,5	18	11,5
916ER010	ER16	1-0,5	27,5	17
916ER020	ER16	2-1	27,5	17
916ER030	ER16	3-2	27,5	17
916ER040	ER16	4-3	27,5	17
916ER050	ER16	5-4	27,5	17
916ER060	ER16	6-5	27,5	17
916ER070	ER16	7-6	27,5	17
916ER080	ER16	8-7	27,5	17
916ER090	ER16	9-8	27,5	17
916ER100	ER16	10-9	27,5	17



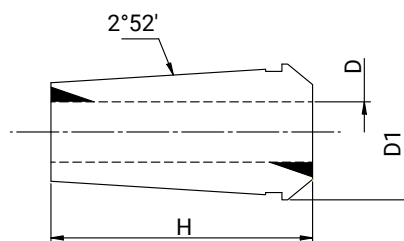
COD	TIPO PINZA	D	H	D1
920ER010	ER20	1-0,5	31,5	21
920ER020	ER20	2-1	31,5	21
920ER030	ER20	3-2	31,5	21
920ER040	ER20	4-3	31,5	21
920ER050	ER20	5-4	31,5	21
920ER060	ER20	6-5	31,5	21
920ER070	ER20	7-6	31,5	21
920ER080	ER20	8-7	31,5	21
920ER090	ER20	9-8	31,5	21
920ER100	ER20	10-9	31,5	21
920ER110	ER20	11-10	31,5	21
920ER120	ER20	12-11	31,5	21
920ER130	ER20	13-12	31,5	21
925ER010	ER25	1-0,5	34	26
925ER020	ER25	2-1,5	34	26
925ER030	ER25	3-2,5	34	26
925ER040	ER25	4-3,5	34	26
925ER050	ER25	5-4	34	26
925ER060	ER25	6-5	34	26
925ER070	ER25	7-6	34	26
925ER080	ER25	8-7	34	26
925ER090	ER25	9-8	34	26
925ER100	ER25	10-9	34	26
925ER110	ER25	11-10	34	26
925ER120	ER25	12-11	34	26
925ER130	ER25	13-12	34	26
925ER140	ER25	14-13	34	26
925ER150	ER25	15-14	34	26
925ER160	ER25	16-15	34	26



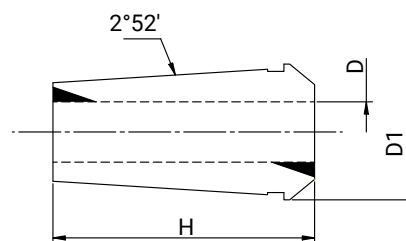
COD	TIPO PINZA	D	H	D1
932ER030	ER32	3-2	40	33
932ER040	ER32	4-3	40	33
932ER050	ER32	5-4	40	33
932ER060	ER32	6-5	40	33
932ER070	ER32	7-6	40	33
932ER080	ER32	8-7	40	33
932ER090	ER32	9-8	40	33
932ER100	ER32	10-9	40	33
932ER110	ER32	11-10	40	33
932ER120	ER32	12-11	40	33
932ER130	ER32	13-12	40	33
932ER140	ER32	14-13	40	33
932ER150	ER32	15-14	40	33
932ER160	ER32	16-15	40	33
932ER170	ER32	17-16	40	33
932ER180	ER32	18-17	40	33
932ER190	ER32	19-18	40	33
932ER200	ER32	20-19	40	33



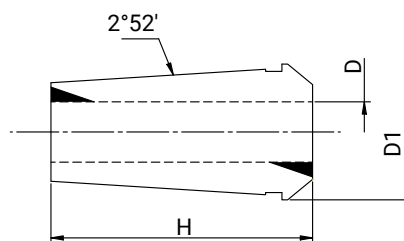
COD	TIPO PINZA	D	H	D1
940ER030	ER40	3-2	46	41
940ER040	ER40	4-3	46	41
940ER050	ER40	5-4	46	41
940ER060	ER40	6-5	46	41
940ER070	ER40	7-6	46	41
940ER080	ER40	8-7	46	41
940ER090	ER40	9-8	46	41
940ER100	ER40	10-9	46	41
940ER110	ER40	11-10	46	41
940ER120	ER40	12-11	46	41
940ER130	ER40	13-12	46	41
940ER140	ER40	14-13	46	41
940ER150	ER40	15-14	46	41
940ER160	ER40	16-15	46	41
940ER170	ER40	17-16	46	41
940ER180	ER40	18-17	46	41
940ER190	ER40	19-18	46	41
940ER200	ER40	20-19	46	41
940ER210	ER40	21-20	46	41
940ER220	ER40	22-21	46	41
940ER230	ER40	23-22	46	41
940ER240	ER40	24-23	46	41
940ER250	ER40	25-24	46	41
940ER260	ER40	26-25	46	41
940ER270	ER40	27-26	46	41
940ER280	ER40	28-27	46	41
940ER290	ER40	29-28	46	41
940ER300	ER40	30-29	46	41



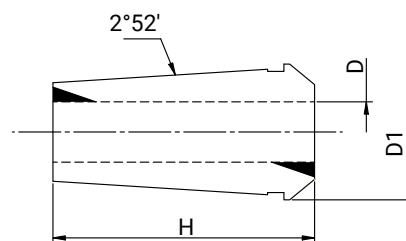
COD	TIPO PINZA	D	H	D1
916EO010	EOC16	1-0,5	40	25,5
916EO015	EOC16	1,5-1	40	25,5
916EO020	EOC16	2-1,5	40	25,5
916EO025	EOC16	2,5-2	40	25,5
916EO030	EOC16	3-2,5	40	25,5
916EO035	EOC16	3,5-3	40	25,5
916EO040	EOC16	4-3,5	40	25,5
916EO045	EOC16	4,5-4	40	25,5
916EO050	EOC16	5-4,5	40	25,5
916EO055	EOC16	5,5-5	40	25,5
916EO060	EOC16	6-5,5	40	25,5
916EO065	EOC16	6,5-6	40	25,5
916EO070	EOC16	7-6,5	40	25,5
916EO075	EOC16	7,5-7	40	25,5
916EO080	EOC16	8-7,5	40	25,5
916EO085	EOC16	8,5-8	40	25,5
916EO090	EOC16	9-8,5	40	25,5
916EO095	EOC16	9,5-9	40	25,5
916EO100	EOC16	10-9,5	40	25,5
916EO105	EOC16	10,5-10	40	25,5
916EO110	EOC16	11-10,5	40	25,5
916EO115	EOC16	11,5-11	40	25,5
916EO120	EOC16	12-11,5	40	25,5
916EO125	EOC16	12,5-12	40	25,5
916EO130	EOC16	13-12,5	40	25,5
916EO135	EOC16	13,5-13	40	25,5
916EO140	EOC16	14-13,5	40	25,5
916EO145	EOC16	14,5-14	40	25,5
916EO150	EOC16	15-14,5	40	25,5
916EO155	EOC16	15,5-15	40	25,5
916EO160	EOC16	16-15,5	40	25,5



COD	TIPO PINZA	D	H	D1
925EO020	EOC25	2-1,5	52	35
925EO025	EOC25	2,5-2	52	35
925EO030	EOC25	3-2,5	52	35
925EO035	EOC25	3,5-3	52	35
925EO040	EOC25	4-3,5	52	35
925EO045	EOC25	4,5-4	52	35
925EO050	EOC25	5-4,5	52	35
925EO055	EOC25	5,5-5	52	35
925EO060	EOC25	6-5,5	52	35
925EO065	EOC25	6,5-6	52	35
925EO070	EOC25	7-6,5	52	35
925EO075	EOC25	7,5-7	52	35
925EO080	EOC25	8-7,5	52	35
925EO085	EOC25	8,5-8	52	35
925EO090	EOC25	9-8,5	52	35
925EO095	EOC25	9,5-9	52	35
925EO100	EOC25	10-9,5	52	35
925EO105	EOC25	10,5-10	52	35
925EO120	EOC25	12-11,5	52	35
925EO125	EOC25	12,5-12	52	35
925EO130	EOC25	13-12,5	52	35
925EO135	EOC25	13,5-13	52	35
925EO140	EOC25	14-13,5	52	35
925EO145	EOC25	14,5-14	52	35
925EO150	EOC25	15-14,5	52	35
925EO155	EOC25	15,5-15	52	35
925EO160	EOC25	16-15,5	52	35
925EO165	EOC25	16,5-16	52	35
925EO170	EOC25	17-16,5	52	35
925EO175	EOC25	17,5-17	52	35
925EO180	EOC25	18-17,5	52	35
925EO185	EOC25	18,5-18	52	35
925EO190	EOC25	19-18,5	52	35
925EO195	EOC25	19,5-19	52	35
925EO200	EOC25	20-19,5	52	35
925EO205	EOC25	20,5-20	52	35
925EO210	EOC25	21-20,5	52	35
925EO215	EOC25	21,5-21	52	35
925EO220	EOC25	22-21,5	52	35
925EO225	EOC25	22,5-22	52	35
925EO230	EOC25	23-22,5	52	35
925EO235	EOC25	23,5-23	52	35
925EO240	EOC25	24-23,5	52	35
925EO245	EOC25	24,5-24	52	35
925EO250	EOC25	25-24,5	52	35



COD	TIPO PINZA	D	H	D1
932E0030	EOC32	3-2,5	60	43,7
932E0035	EOC32	3,5-3	60	43,7
932E0040	EOC32	4-3,5	60	43,7
932E0045	EOC32	4,5-4	60	43,7
932E0050	EOC32	5-4,5	60	43,7
932E0055	EOC32	5,5-5	60	43,7
932E0060	EOC32	6-5,5	60	43,7
932E0065	EOC32	6,5-6	60	43,7
932E0070	EOC32	7-6,5	60	43,7
932E0075	EOC32	7,5-7	60	43,7
932E0080	EOC32	8-7,5	60	43,7
932E0085	EOC32	8,5-8	60	43,7
932E0090	EOC32	9-8,5	60	43,7
932E0095	EOC32	9,5-9	60	43,7
932E0100	EOC32	10-9,5	60	43,7
932E0105	EOC32	10,5-10	60	43,7
932E0110	EOC32	11-10,5	60	43,7
932E0115	EOC32	11,5-11	60	43,7
932E0120	EOC32	12-11,5	60	43,7
932E0125	EOC32	12,5-12	60	43,7
932E0130	EOC32	13-12,5	60	43,7
932E0135	EOC32	13,5-13	60	43,7
932E0140	EOC32	14-13,5	60	43,7
932E0145	EOC32	14,5-14	60	43,7
932E0150	EOC32	15-14,5	60	43,7
932E0155	EOC32	15,5-15	60	43,7
932E0160	EOC32	16-15,5	60	43,7
932E0165	EOC32	16,5-16	60	43,7
932E0170	EOC32	17-16,5	60	43,7
932E0175	EOC32	17,5-17	60	43,7
932E0180	EOC32	18-17,5	60	43,7
932E0185	EOC32	18,5-18	60	43,7
932E0190	EOC32	19-18,5	60	43,7
932E0195	EOC32	19,5-19	60	43,7
932E0200	EOC32	20-19,5	60	43,7
932E0205	EOC32	20,5-20	60	43,7
932E0210	EOC32	21-20,5	60	43,7
932E0215	EOC32	21,5-21	60	43,7
932E0220	EOC32	22-21,5	60	43,7
932E0225	EOC32	22,5-22	60	43,7
932E0230	EOC32	23-22,5	60	43,7
932E0235	EOC32	23,5-23	60	43,7
932E0240	EOC32	24-23,5	60	43,7
932E0245	EOC32	24,5-24	60	43,7
932E0250	EOC32	25-24,5	60	43,7



COD	TIPO PINZA	D	H	D1
932EO255	EOC32	25,5-25	60	43,7
932EO260	EOC32	26-25,5	60	43,7
932EO265	EOC32	26,5-26	60	43,7
932EO270	EOC32	27-26,5	60	43,7
932EO275	EOC32	27,5-27	60	43,7
932EO280	EOC32	28-27,5	60	43,7
932EO285	EOC32	28,5-28	60	43,7
932EO290	EOC32	29-28,5	60	43,7
932EO295	EOC32	29,5-29	60	43,7
932EO300	EOC32	30-29,5	60	43,7
932EO305	EOC32	30,5-30	60	43,7
932EO310	EOC32	31-30,5	60	43,7
932EO315	EOC32	31,5-31	60	43,7
932EO320	EOC32	32-31,5	60	43,7

SERIE DI PINZE TIPO "ER" | COLLETS SETS "ER" | SPANNZANGENSATZ "ER" | JEUX DE PINCES "ER"



COD

908ERS09	SERIE DI 9 PINZE DIN6499/B ER 8 (Ø 1-1,5-2-2,5-3-3,5-4-4,5-5)
911ERS13	SERIE DI 13 PINZE DIN6499/B ER11 d1-d7 (Ø 1-1,5-2-2,5-3-3,5-4-4,5-5-5,5-6-6,5-7)
916ERS10	SERIE DI 10 PINZE DIN6499/B ER16 d1-10 (Ø 1-2-3-4-5-6-7-8-9-10)
920ERS12	SERIE DI 12 PINZE DIN6499/D ER20 d2-13 (Ø 2-3-4-5-6-7-8-9-10-11-12-13)
925ERS15	SERIE DI 15 PINZE DIN6499/B ER25 d2-16 (Ø 2-3-4-5-6-7-8-9-10-11-12-13-14-15-16)
932ERS18	SERIE DI 18 PINZE DIN6499/B ER32 d3-20 (Ø 3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20)
940ERS23	SERIE DI 23 PINZE DIN6499/B ER40 d4-26 (Ø 4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26)
940ERS28	SERIE DI 28 PINZE DIN6499/B ER40 d3-30 (Ø 3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30)

VALIGETTA PORTAPINZE VUOTA | EMPTY CASE | LEERER KUNSTOFFETUIS | BOITE VIDE



COD

SPPER08	VALIGETTA PINZE ER8 (16 sedi)
SPPER11	VALIGETTA PINZE ER11 (16 sedi)
SPPER16	VALIGETTA PINZE ER16 (16 sedi)
SPPER20	VALIGETTA PINZE ER20 (16 sedi)
SPPER25	VALIGETTA PINZE ER25 (28 sedi)
SPPER32	VALIGETTA PINZE ER32 (28 sedi)
SPPER40	VALIGETTA PINZE ER40 (28 sedi)

SERIE DI PINZE TIPO "EOC" | COLLETS SETS "EOC" | SPANNZANGENSATZ "EOC" | JEUX DE PINCES "EOC"



COD

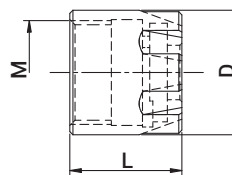
916EOS15	SET 15 PINZE EOC16 (2-16MM) (Ø 2-3-4-5-6-7-8-9-10-11-12-13-14-15-16)
925EOS24	SET 24 PINZE EOC25 (2-25MM) (Ø 2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25)
932EOS29	SET 29 PINZE EOC32 (4-32MM) (Ø 4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32)

VALIGETTA PORTAPINZE VUOTA | EMPTY CASE | LEERER KUNSTOFFETUIS | BOITE VIDE

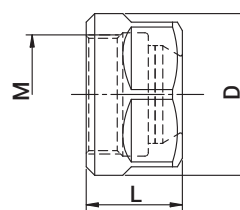


COD

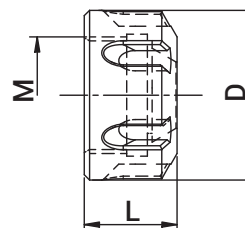
SPPEOC16	VALIGETTA PINZE EOC16 (28 sedi)
SPPEOC25	VALIGETTA PINZE EOC25 (28 sedi)
SPPEOC32	VALIGETTA PINZE EOC32 (30 sedi)



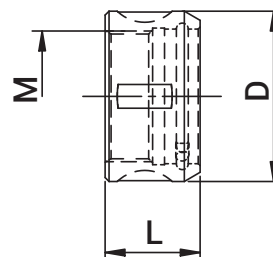
COD	ER	D	L	M
908GHRMN	ER8MINI	12	10,8	M10x0,75
911GHRMN	ER11MINI	16	12	M13x0,75
916GHRMN	ER16MINI	22	18	M19x1
920GHRMN	ER20MINI	28	19	M24x1
925GHRMN	ER25MINI	35	20	M30x1



COD	ER	D	L	M
911GHRES	ER11	19	14	M14x0,75
916GHRES	ER16	28	17,5	M22x1,5
920GHRES	ER20	34	19	M25x1,5

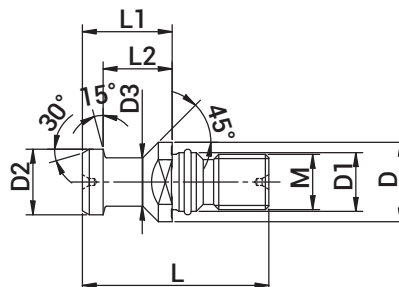


COD	ER	D	L	M
916GHREQ	ER16	32	17	M22x1,5
920GHREQ	ER20	35	19	M25x1,5
925GHREQ	ER25	42	20	M32x1,5
932GHREQ	ER32	50	22,5	M40x1,5
940GHREQ	ER40	63	25,5	M50x1,5
950GHREQ	ER50	78	35,5	M64x2



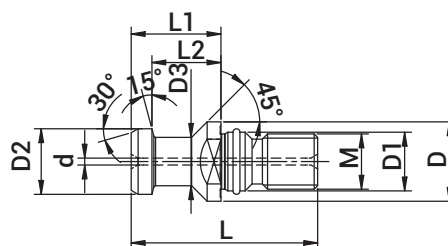
COD	EOC	D	L	M
916GHROS	EOC16	43	24	M33x1,5
925GHROS	EOC25	60	30	M48x2
932GHROS	EOC32	72	33,5	M60x2,5

NON FORATO | NOT DRILLED | OHNE BOHRUNG | NON PERCÉE
CON OR DI TENUTA | WITH O'RING | MIT O'RING | AVEC JOINT TORIQUE



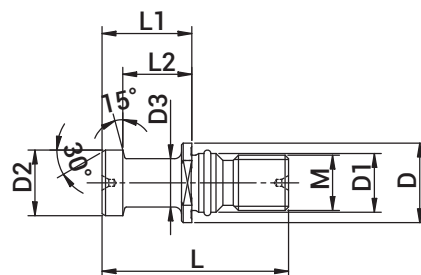
COD	ISO	M	D	D1	D2	D3	L	L1	L2
930TIR01	ISO30	M12	17	13	13	9	44	24	19
940TIR01	ISO40	M16	23	17	19	14	54	26	20
950TIR01	ISO50	M24	36	25	28	21	74	34	25

FORATO | DRILLED | BOHRUNG | PERCÉE
CON OR DI TENUTA | WITH O'RING | MIT O'RING | AVEC JOINT TORIQUE



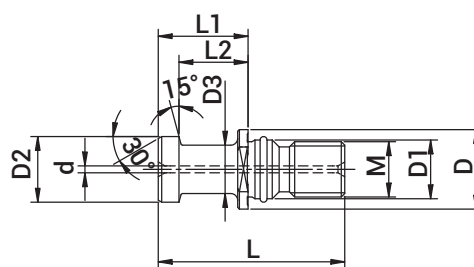
COD	ISO	d	M	D	D1	D2	D3	L	L1	L2
940TIR02	ISO40	7	M16	23	17	19	14	54	26	20
950TIR02	ISO50	11,5	M24	36	25	28	21	74	34	25

NON FORATO | NOT DRILLED | OHNE BOHRUNG | NON PERCÉE
CON OR DI TENUTA | WITH O'RING | MIT O'RING | AVEC JOINT TORIQUE



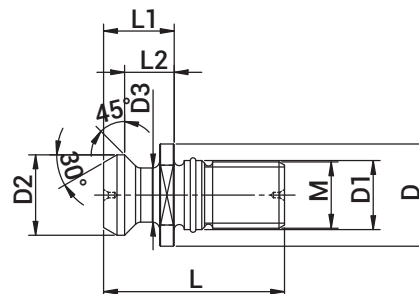
COD	ISO	M	D	D1	D2	D3	L	L1	L2
930TIR11	ISO30	M12	16	13	12	8	44	24	19
940TIR11	ISO40	M16	23	17	19	14	54	26	20
950TIR11	ISO50	M24	36	25	28	21	74	34	25

FORATO | DRILLED | BOHRUNG | PERCÉE
CON OR DI TENUTA | WITH O'RING | MIT O'RING | AVEC JOINT TORIQUE



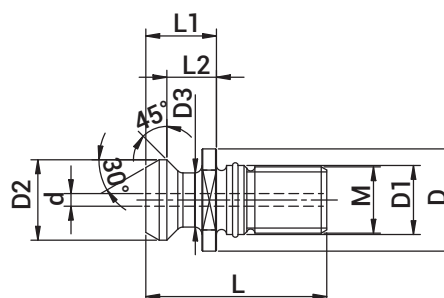
COD	ISO	d	M	D	D1	D2	D3	L	L1	L2
940TIR12	ISO40	7	M16	23	17	19	14	54	26	20
950TIR12	ISO50	11,5	M24	36	25	28	21	74	34	25

NON FORATO | NOT DRILLED | OHNE BOHRUNG | NON PERCÉE
CON OR DI TENUTA | WITH O'RING | MIT O'RING | AVEC JOINT TORIQUE



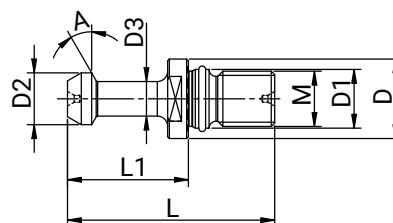
COD	ISO	M	D	D1	D2	D3	L	L1	L2
940TIR21	ISO40	M16	22,5	17	18,9	12,9	44,5	16,4	11,1
950TIR21	ISO50	M24	37	25	29,1	19,6	65,5	25,5	17,9

FORATO | DRILLED | BOHRUNG | PERCÉE
CON OR DI TENUTA | WITH O'RING | MIT O'RING | AVEC JOINT TORIQUE



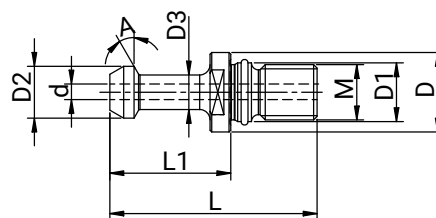
COD	ISO	d	M	D	D1	D2	D3	L	L1	L2
940TIR22	ISO40	7,3	M16	22,5	17	18,9	12,9	44,5	16,4	11,1
950TIR22	ISO50	11,5	M24	37	25	29,1	19,6	65,5	25,5	17,9

NON FORATO | NOT DRILLED | OHNE BOHRUNG | NON PERCÉE
CON OR DI TENUTA | WITH O'RING | MIT O'RING | AVEC JOINT TORIQUE



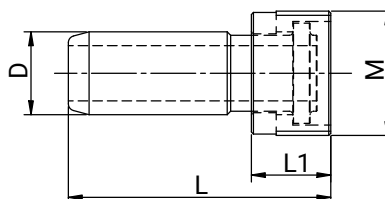
COD	ISO	M	A	D	D1	D2	D3	L	L1
930TIR51	ISO30	M12	30°	16,5	12,5	11	7	43	23
930TIR52	ISO30	M12	45°	16,5	12,5	11	7	43	23
940TIR51	ISO40	M16	30°	23	17	15	10	60	35
940TIR52	ISO40	M16	45°	23	17	15	10	60	35
940TIR50	ISO40	M16	90°	23	17	15	10	60	35
950TIR51	ISO50	M24	30°	38	25	42	17	85	45
950TIR52	ISO50	M24	45°	38	25	42	17	85	45
950TIR50	ISO50	M24	90°	38	25	42	17	85	45

FORATO | DRILLED | BOHRUNG | PERCÉE
CON OR DI TENUTA | WITH O'RING | MIT O'RING | AVEC JOINT TORIQUE



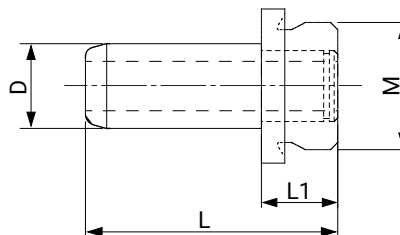
COD	ISO	d	M	A	D	D1	D2	D3	L	L1
940TIR55	ISO40	4	M16	30°	23	17	15	10	60	35
940TIR53	ISO40	4	M16	45°	23	17	15	10	60	35
940TIR54	ISO40	4	M16	90°	23	17	15	10	60	35
950TIR55	ISO50	6	M24	30°	38	25	42	17	85	45
950TIR53	ISO50	6	M24	45°	38	25	42	17	85	45
950TIR54	ISO50	6	M24	90°	38	25	42	17	85	45

ADDUZIONE REFRIGERANTE PER MANDRINI DIN 69893 HSK
DELIVERY UNIT FOR COOLANT
KÜHLMITTELÜBERGABEEINHEIT
UNITE DE TRANSMISSION DE LIQUIDE



COD	CONO	M	D	L	L1
950APR02	HSK50/F	M12x1	8	29,3	7,5
950APR01	HSK 50/A - 50/E - 63/F	M16x1	10	33	9,5
963APR01	HSK 63/A - 63/E	M18x1	12	36,6	11,5
910APR01	HSK100/A	M24x1,5	16	44	15,5

ADDUZIONE REFRIGERANTE PER ADATTATORI MODULARI DIN 69893 HSK
DIN 69893 HSK MODULAR HOLDERS DELIVERY UNIT FOR COOLANT
GRUNDAUFNAHMEN DIN 69893 HSK KÜHLMITTELÜBERGABEEINHEIT
MODULE DE BASE DIN 69893 HSK UNITE DE TRANSMISSION DE LIQUIDE



COD	CONO	M	D	L	L1
963APR02	HSK 63/A	M18x1	12	35,1	10,8
910APR02	HSK100/A	M24x1,5	16	43,1	15,4

CHIAVE PER ADDUTTORE REFRIGERANTE
COOLANT SUPPLY UNIT KEY
SCHLUESSEL FÜR KÜHLMITTELÜBERGABESATZ
CLÉS POUR LE DISPOSITIF DE TRANSFERT DE LIQUIDE DE LUBRIFICATION



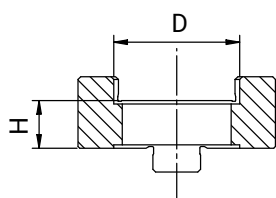
COD	HSK
950CHVAR	HSK50
963CHVAR	HSK63
910CHVAR	HSK100

VITI TESTA A CROCE DIN 6367
RETAINING SCREWS DIN 6367
FRÄSERANZUGSCHRAUBEN DIN 6367
VIS DE SERRAGE DIN 6367



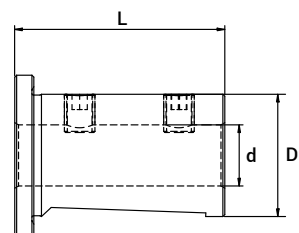
COD	M	D	L1	L2
916VTC02	M8	20	16	6
922VTC02	M10	28	18	7
927VTC02	M12	35	22	8
932VTC02	M16	42	26	9
940VTC02	M20	52	30	10

GIUNTI DI TRASCINAMENTO DIN 6366
CLUTCH DRIVE RINGS DIN 6366
MITNEHMERRINGE DIN 6366
BAGUES D'ENTRAÎNEMENT DIN 6366



COD	D	H
916GNT01	16	10
922GNT01	22	12
927GNT01	27	12
932GNT01	32	14
940GNT01	40	14

RIDUZIONE CILINDRICA
RUDUCTION BUSH
REDUZIERBÜCHSE
DOUILLE DE REDUCTION

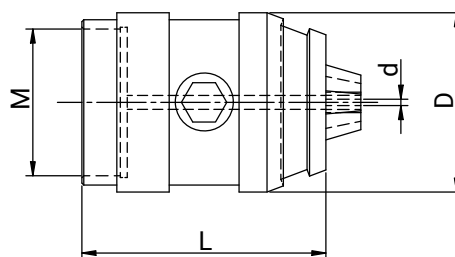


COD	D	d	L
932RCD14	32	14	55
932RCD16	32	16	55
932RCD18	32	18	55
932RCD20	32	20	55
932RCD25	32	25	55
940RCD16	40	16	55
940RCD20	40	20	55
940RCD25	40	25	60
940RCD32	40	32	65

MANDRINI PER PUNTE
PRECISION RAPID CLAMPING DRILL CHUCKS
PRÄZISIONS-SCHNELLSPANN-BOHRFUTTER
MANDRINS DE PERÇAGE PRÉCIS À SERRAGE RAPIDE



COD	DESCRIZIONE	CAPACITA'
913INS01	MANDRINO PER PUNTE 1-13	1-13
916INS01	MANDRINO PER PUNTE 1-16	3-16



COD	DESCRIZIONE	M	D	L	CAPACITA'
MAZ13	MANDRINO AUTOSERRANTE DC13	43,5x1	50	70	1-13
MAZ16	MANDRINO AUTOSERRANTE DC16	43,5x1	50	75	3-16

ANELLI DIN 2080
RINGS DIN 2080
RINGE DIN 2080
BAGUES DIN 2080



COD	ISO	D	H
500100001	ISO40	25	7
500100002	ISO50	40	8

OGIVE PER PORTABARENI
COOLANT NOZZLE
KÜHLMITTELDÜSEN
BUSE DE LIQUIDE DE REFROIDISSEMENT



COD	DESCRIZIONE
OGIVA08	UGELLO REFRIGERANTE D. EST. 8MM - FIL. M4 CON DI VITI DI PIANTAGGIO
OGIVA10	UGELLO REFRIGERANTE D. EST. 10MM - FIL. M5 CON DI VITI DI PIANTAGGIO
OGIVA12	UGELLO REFRIGERANTE D. EST. 12MM - FIL. M6 CON DI VITI DI PIANTAGGIO

CHIAVI PER GHIERE ER MINI
WRENCHES FOR ER MINI CLAMPING NUTS
SPANNSCHLUESSEL FUER ER MINI SPANNMUTTER
CLIES DE SERRAGE POUR ECROU ER MINI



COD	TIPOLOGIA
908CHVMN	ER8MINI
911CHVMN	ER11MINI
916CHVMN	ER16MINI
920CHVMN	ER20MINI
925CHVMN	ER25MINI

CHIAVI PER GHIERE ER ESAGONALI
WRENCHES FOR HEXAGONAL ER CLAMPING NUTS
SPANNSCHLUESSEL FUER ER SECHSKANMUTTER
CLIES DE SERRAGE POUR ECROU ER HEXAGONAL



COD	TIPOLOGIA
911CHVES	ER11
916CHVES	ER16
920CHVES	ER20

CHIAVI PER GHIERE ER STANDARD
WRENCHES FOR STANDARD ER NUTS
SPANNSCHLUESSEL FUER ER STANDARD SPANNMUTTER
CLIES DE SERRAGE POUR ECROU ER STANDARD



COD	TIPOLOGIA
916CHVST	ER16
920CHVST	ER20
925CHVST	ER25
932CHVST	ER32
940CHVST	ER40
950CHVST	ER50

CHIAVI CON PRESA LATERALE
WRENCHES WITH SIDE GRIP
HAKENSCHLUESSEL
CLES AVEC PRISES LATERAL



COD	TIPOLOGIA	
912CHVFS	-	FORTE SERRAGGIO D.12
916CHVFS	-	FORTE SERRAGGIO D.16
916CHVOC	EOC16	FORTE SERRAGGIO D.20
925CHVOC	EOC25	FORTE SERRAGGIO D.32
932CHVOC	EOC32	-

CHIAVI PER VITE TESTA A CROCE
WRENCHES FOR TOOLS RETEINING SCREW
SPANNSCHLUESSEL FUER FRAESERANZUGSSCHRAUBEN
CLES A VIS A CROSSE



COD	VITE A CROCE
916CHVTC	M8
922CHVTC	M10
927CHVTC	M12
932CHVTC	M16
940CHVTC	M20

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