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specialmente mandrini

PORTA UTENSILI SPECIALI

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specialmente mandrini



Affidabilità e competenza tecnica costituiscono da sempre la filosofia di Officine Valbusa, che vanta ad oggi un'esperienza ultratrentennale nella costruzione di mandrineria meccanica.

La cura artigianale caratterizza ogni fase del ciclo produttivo, permettendo di realizzare prodotti speciali su disegno del cliente.

Tradizione ed innovazione sono i punti di forza di una realtà sempre al passo con i tempi, per un costante miglioramento nella costruzione di mandrini ad alto contenuto tecnologico.



da 30 anni mandrini a disegno



1

La mandrineria meccanica specializzata offre numerose soluzioni standard, nelle caratteristiche dimensionali e di funzione. Talvolta, l'offerta può rivelarsi inefficace a soddisfare esigenze tecniche specifiche, dettate da ambienti di lavoro particolari, utensili specifici, condizioni estreme: per chi opera in queste condizioni servono **mandrini speciali**.

2

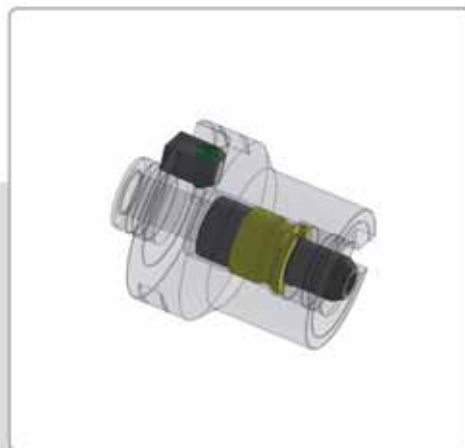
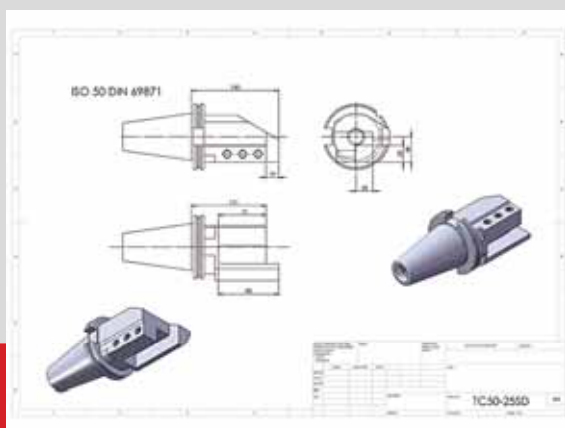
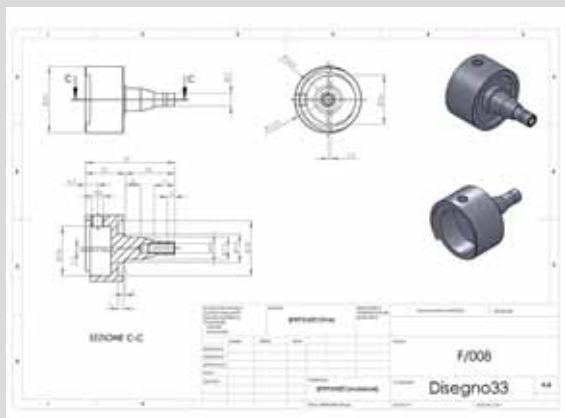
una tavola tecnica con poche informazioni di base è sufficiente per sviluppare un modello tridimensionale di riferimento

3

tutto è pronto per avviare la produzione: in poche e semplici mosse il mandrino speciale è diventato realtà.

come nasce un mandrino speciale



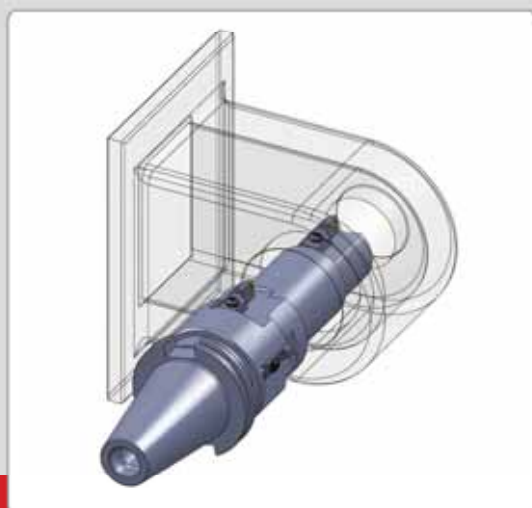




mandrini extra-speciali: i bareni



un unico mandrino per
sgrossare, finire, smussare

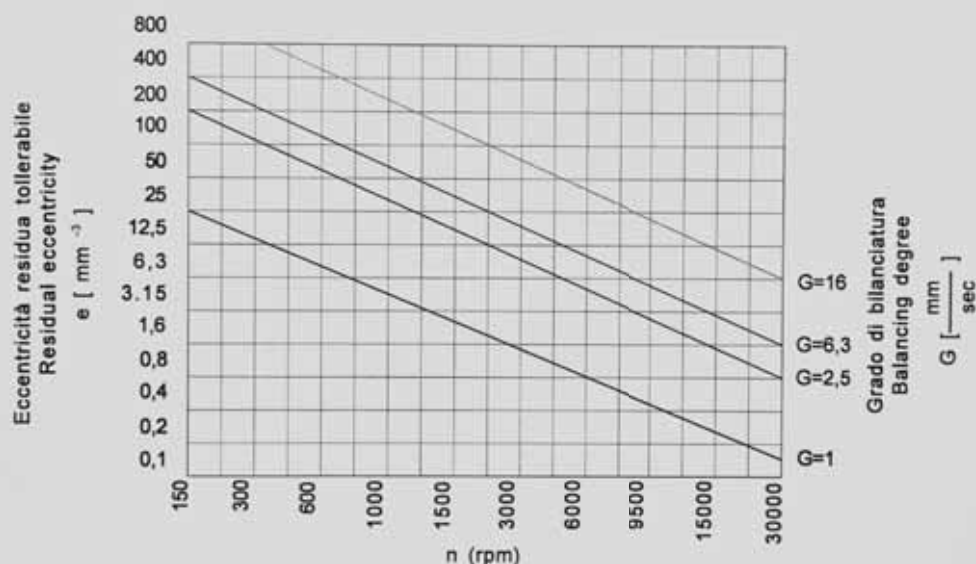


lavorare meglio, in meno tempo

Il bareno, multi-funzione per natura, rappresenta un esempio molto significativo di mandrino speciale.

Dotato di cartucce porta-inserto per **sgrossatura**, **finitura e smussatura**, è in grado di completare in un unico passaggio fasi operative differenti e consequenziali, riducendo sensibilmente i tempi di lavoro.

DIAGRAMMA DELLA TOLLERANZA DI EQUILIBRATURA



$e \text{ [mm } \cdot \text{ s]} = \frac{10 \cdot G}{n}$	Eccentricità residua - Residual Eccentricity
$p \text{ [g]} = \frac{P \cdot e}{r}$	Squilibrio residuo - Residual unbalance
$P \text{ [Kg]}$	Peso del portautensile - Weight of the toolholder
$r \text{ [mm]}$	Raggio su cui si effettua la bilanciatura Balancing radius
$p \cdot r \text{ [g } \cdot \text{ mm]}$	Squilibrio residuo massimo tollerabile Max admissible unbalance

PORTA UTENSILI EQUILIBRATI: perchè?

L'utilizzo sempre più frequente di centri di lavoro con velocità superiori ai 10.000 giri/min, impone l'uso di porta-utensili geometricamente perfetti, al fine di evitare vibrazioni, una cattiva finitura di superficie e la scarsa durata degli utensili.

La bilanciatura del porta-utensile, precisa quanto quella del mandrino sul quale viene montato, garantisce, pertanto, una migliore regolarità di produzione e il mantenimento nel tempo della qualità degli utensili.





MARCATURA A LASER per personalizzare il porta-utensile

E' possibile richiedere la personalizzazione dei prodotti Officine Valbusa con la marcatura a laser di scritte o loghi.



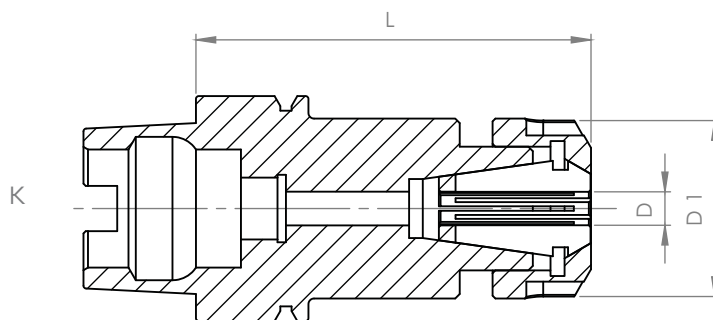


PRE-BALANCED



PORTA PINZA collet chucks

HSK 40A DIN 69893 A



HSK 40A DIN 69893 A

NEW CODE	ex code	K	D	D1	L	PINZA
HA 40/ER 16 L70	3000 / 40 16 L70	HSK40A	1-10	32	70	ER16
HA 40/ER 25 L70	3000 / 40 25 L70	HSK40A	1-16	42	70	ER25



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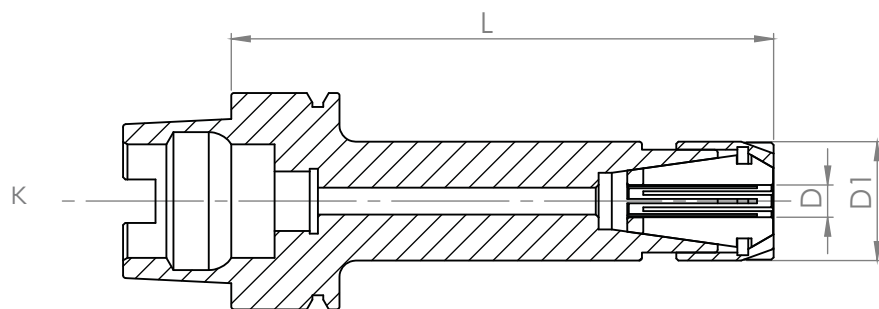


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PORTA PINZA MINI
collet chucks mini type



HSK 40A DIN 69893 A

HSK 40A DIN 69893 A

NEW CODE	ex code	K	D	D1	L	PINZA
HA 40/ERM 11 L100	3010 /40 11 L100	HSK40A	1-7	16	100	ER11
HA 40/ERM 16 L100	3010 /40 16 L100	HSK40A	1-10	22	100	ER16



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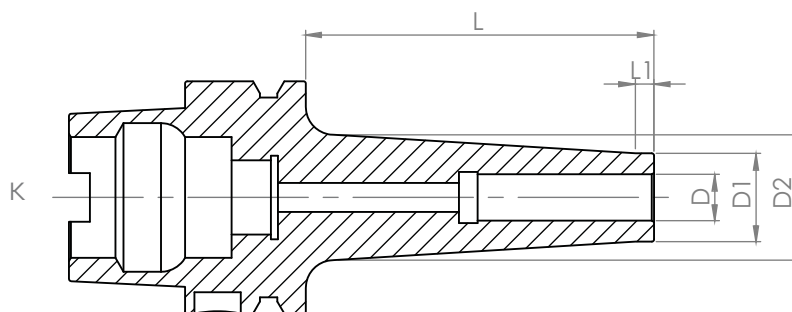
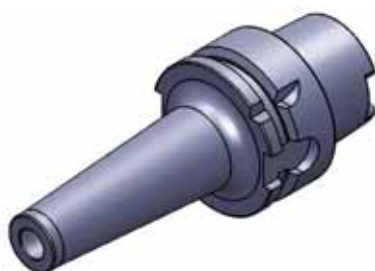


PRE-BALANCED



CALETTAMENTO A CALDO heat shrinking

HSK 50A DIN 69893 A



HSK 50A DIN 69893 A

NEW CODE	ex code	K	D	D1	D2	L	L1
HA50/CT 04 L050	6750/05004	HSK50A	4	10	15	50	4
HA50/CT 04 L075	6750/07504	HSK50A	4	10	17	75	4
HA50/CT 06 L050	6750/05006	HSK50A	6	12	17	50	4
HA50/CT 06 L075	6750/07506	HSK50A	6	12	20	75	4
HA50/CT 06 L100	6750/10006	HSK50A	6	12	23	100	4
HA50/CT 08 L050	6750/05008	HSK50A	8	17	22	50	4
HA50/CT 08 L075	6750/07508	HSK50A	8	17	25	75	4
HA50/CT 08 L100	6750/10008	HSK50A	8	17	28	100	4
HA50/CT 10 L050	6750/05010	HSK50A	10	19	24	50	4
HA50/CT 10 L075	6750/07510	HSK50A	10	19	27	75	4
HA50/CT 10 L100	6750/10010	HSK50A	10	19	30	100	4

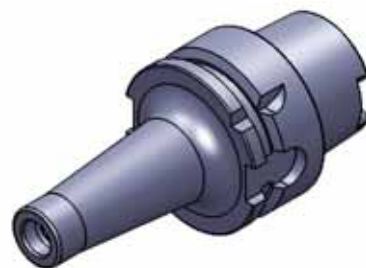
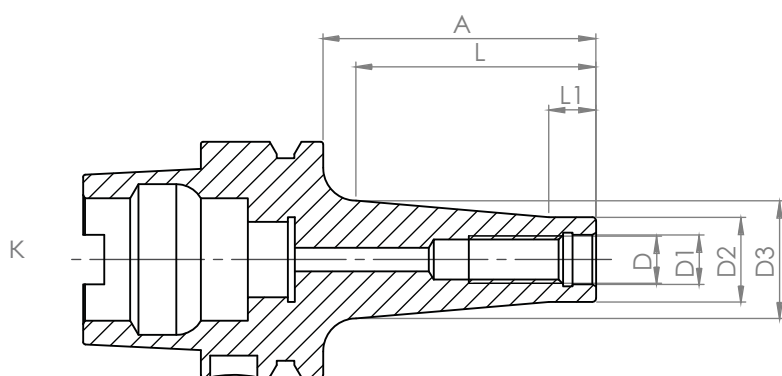


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PORTA TESTINA
screw-in endmills



HSK 50A DIN 69893 A

HSK 50A DIN 69893 A

NEW CODE	ex code	K	D	D1	D2	D3	L	L1	A
HA 50 / PT 06 L025	7905/025 06	HSK50A	M6	6,5	9,7	10	25	35	33
HA 50 / PT 06 L050	7905/050 06	HSK50A	M6	6,5	9,7	20	50	10	58
HA 50 / PT 06 L075	7905/075 06	HSK50A	M6	6,5	9,7	23	75	10	83
HA 50 / PT 08 L025	7905/025 08	HSK50A	M8	8,5	13	15	25	10	33
HA 50 / PT 08 L050	7905/050 08	HSK50A	M8	8,5	13	23	50	10	58
HA 50 / PT 08 L075	7905/075 08	HSK50A	M8	8,5	13	23	75	10	83
HA 50 / PT 08 L100	7905/100 08	HSK50A	M8	8,5	13	25	100	10	108
HA 50 / PT 10 L025	7905/025 10	HSK50A	M10	10,5	18	20	25	10	33
HA 50 / PT 10 L050	7905/050 10	HSK50A	M10	10,5	18	25	50	10	58
HA 50 / PT 10 L075	7905/075 10	HSK50A	M10	10,5	18	28	75	10	83
HA 50 / PT 10 L100	7905/100 10	HSK50A	M10	10,5	18	30	100	10	108
HA 50 / PT 12 L025	7905/025 12	HSK50A	M12	12,5	21	24	25	10	33
HA 50 / PT 12 L050	7905/050 12	HSK50A	M12	12,5	21	24	50	10	58
HA 50 / PT 12 L075	7905/075 12	HSK50A	M12	12,5	21	31	75	10	83
HA 50 / PT 12 L100	7905/100 12	HSK50A	M12	12,5	21	31	100	10	108



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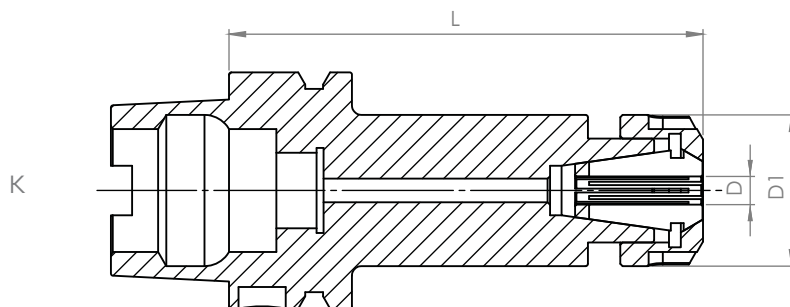


PRE-BALANCED



PORTA PINZA collet chuck

HSK 50A DIN 69893 A



HSK 50A DIN 69893 A

NEW CODE	ex code	K	D	D1	L	PINZA
HA50/ER 16L100	3000/50 16L100	HSK50A	1-10	32	100	ER16
HA50/ER 20L100	3000/50 20L100	HSK50A	1-13	35	100	ER20
HA50/ER 25L100	3000/50 25L100	HSK50A	1-16	42	100	ER25



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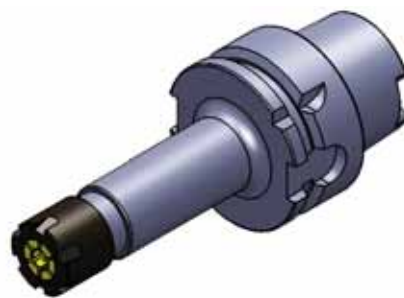
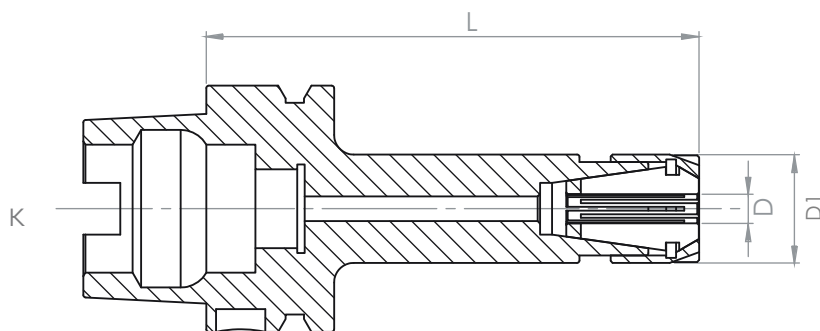


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PORTA PINZA MINI
collet chucks mini type



HSK 50A DIN 69893 A

HSK 50A DIN 69893 A

NEW CODE	ex code	K	D	D1	L	PINZA
HA50/ERM 16 L100	3010/50 16 L100	HSK50A	1-10	22	100	ER16
HA50/ERM 20 L100	3010/50 20 L100	HSK50A	1-13	28	100	ER20



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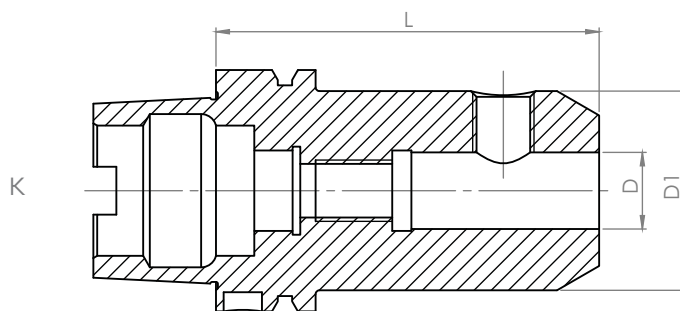


PRE-BALANCED



MANDRINI PORTA FRESE TIPO WELDON end mill holders weldon

HSK 50A DIN 69893 A



HSK 50A DIN 69893 A

NEW CODE	ex code	K	D	D1	L
HA50/WE 06 L65	3030/50 06 L65	HSK50A	6	25	65
HA50/WE 08 L65	3030/50 08 L65	HSK50A	8	28	65
HA50/WE 10 L65	3030/50 10 L65	HSK50A	10	35	65
HA50/WE 12 L80	3030/50 12 L80	HSK50A	12	42	80
HA50/WE 16 L80	3030/50 16 L80	HSK50A	16	48	80
HA50/WE 20 L80	3030/50 20 L80	HSK50A	20	50	80



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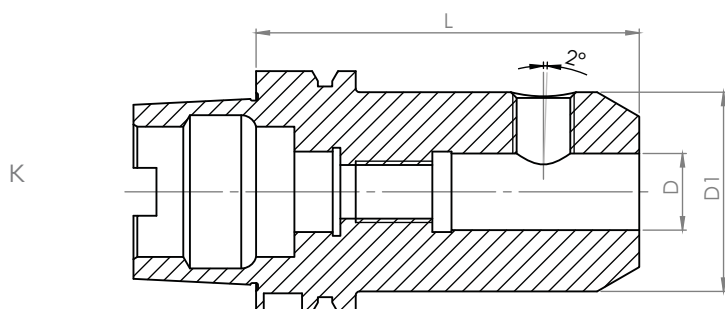


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MANDRINI PORTA FRESE TIPO WISTLE NOTCH
end mill holders whistle notch



HSK 50A DIN 69893 A

HSK 50A DIN 69893 A

NEW CODE	ex code	K	D	D1	L
HA50 / WN06 L80	30 30 / 50 06 L80	HSK50A	6	25	80
HA50 / WN08 L80	30 30 / 50 08 L80	HSK50A	8	28	80
HA50 / WN10 L80	30 30 / 50 10 L80	HSK50A	10	35	80
HA50 / WN12 L90	30 30 / 50 12 L90	HSK50A	12	42	90
HA50 / WN14 L90	30 30 / 50 14 L90	HSK50A	14	44	90
HA50 / WN16 L90	30 30 / 50 16 L90	HSK50A	16	48	90
HA50 / WN18 L90	30 30 / 50 18 L90	HSK50A	18	50	90
HA50 / WN20 L100	30 30 / 50 20 L100	HSK50A	20	50	100



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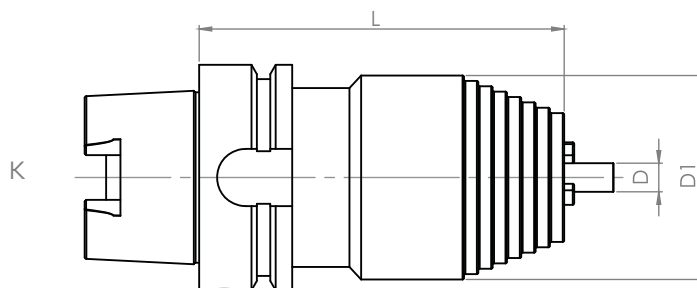


PRE-BALANCED



MANDRINI PORTA PUNTE INTEGRALI drill chuck holders

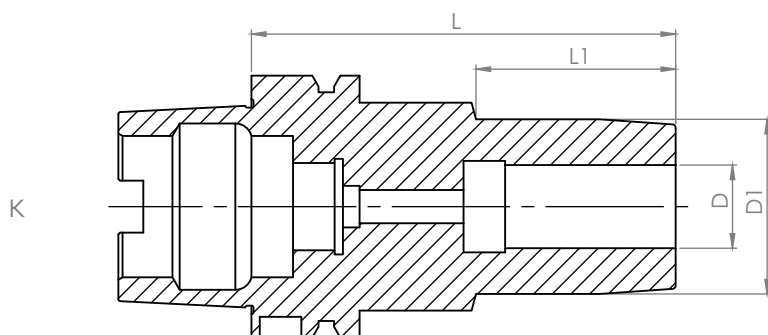
HSK 50A DIN 69893 A



HSK 50A DIN 69893 A

NEW CODE	ex code	K	D	D1	L
HA50/PPI08 L90	NEW!	HSK50A	0,3-8	36	90
HA50/PPI13 L116	30 55 /50 13 L116	HSK50A	1-13	50	116
HA50/PPI16 L127	NEW!	HSK50A	2,5-16	57	127

MANDRINI IDRAULICI
hydraulic chuck



HSK 50A DIN 69893 A

HSK 50A DIN 69893 A

NEW CODE	ex code	K	D	D1	L	L1
HA50/HY06 L70	NEW!	HSK50A	6	26	70	24
HA50/HY08 L70		HSK50A	8	28	70	24
HA50/HY10 L75		HSK50A	10	30	75	34
HA50/HY12 L85		HSK50A	12	32	85	40
HA50/HY14 L85		HSK50A	14	34	85	40
HA50/HY16 L90		HSK50A	16	38	90	40
HA50/HY18 L90		HSK50A	18	40	90	40
HA50/HY20 L90		HSK50A	20	42	90	40



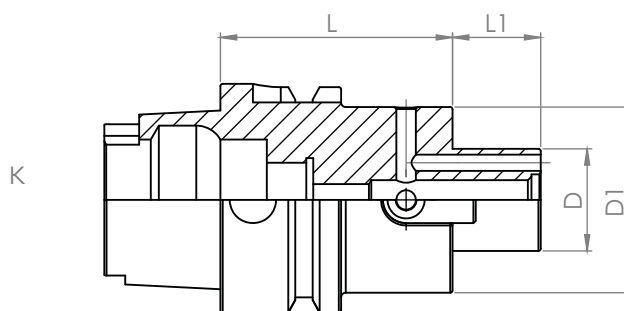
PRE-BALANCED



MANDRINI PORTA FRESE TRASCINAMENTO FISSO

shell-end mill holder

HSK 50A DIN 69893 A



HSK 50A DIN 69893 A

NEW CODE	ex code	K	D	D1	L	L1
HA50/PF 16 L50	30 60 /50 16 L50	HSK50A	16	32	50	17
HA50/PF 22 L50	30 60 /50 22 L50	HSK50A	22	40	50	19
HA50/PF 22 L100	30 61 /50 22 L100	HSK50A	22	40	100	19
HA50/PF 27 L50	30 60 /50 27 L50	HSK50A	27	48	50	21
HA50/PF 27 L100	30 61 /50 27 L100	HSK50A	27	48	100	21



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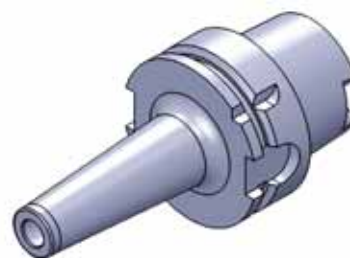
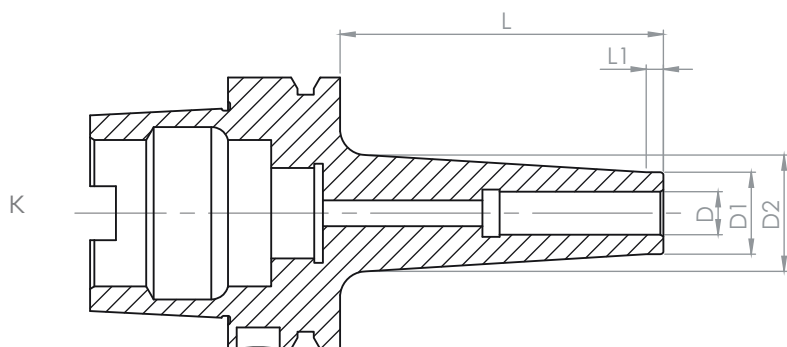


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CALETTAMENTO A CALDO heat shrinking



HSK 63A DIN 69893 A

HSK 63A DIN 69893 A

NEW CODE	ex code	K	D	D1	D2	L	L1
HA63/CT 04L050	67 06/050 04	HSK63A	4	10	15	50	4
HA63/CT 04L075	67 06/075 04	HSK63A	4	10	17	75	4
HA63/CT 06L050	67 06/050 06	HSK63A	6	12	17	50	4
HA63/CT 06L075	67 06/075 06	HSK63A	6	12	20	75	4
HA63/CT 06L100	67 06/100 06	HSK63A	6	12	23	100	4
HA63/CT 06L125	67 06/125 06	HSK63A	6	12	26	125	4
HA63/CT 06L150	67 06/150 06	HSK63A	6	12	26	150	4
HA63/CT 06L175	67 06/175 06	HSK63A	6	12	26	175	4
HA63/CT 08L050	67 06/050 08	HSK63A	8	17	22	50	4
HA63/CT 08L075	67 06/075 08	HSK63A	8	17	25	75	4
HA63/CT 08L100	67 06/100 08	HSK63A	8	17	28	100	4
HA63/CT 08L125	67 06/125 08	HSK63A	8	17	31	125	4
HA63/CT 08L150	67 06/150 08	HSK63A	8	17	31	150	4
HA63/CT 08L175	67 06/175 08	HSK63A	8	17	31	175	4

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pp. 73

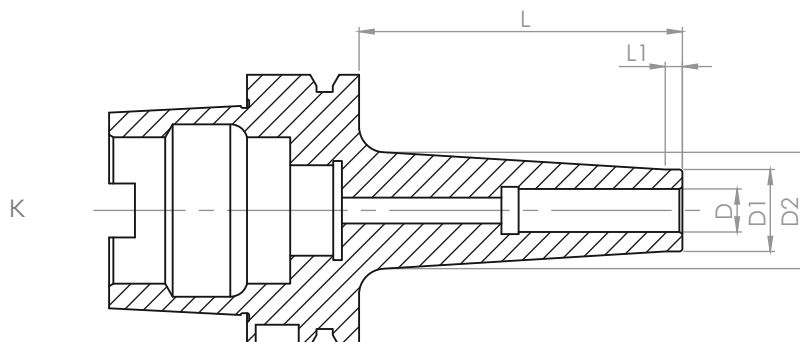
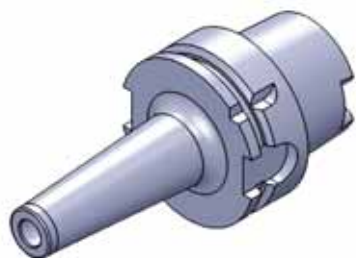


PRE-BALANCED



CALETTAMENTO A CALDO heat shrinking

HSK 63A DIN 69893 A



HSK 63A DIN 69893 A

NEW CODE	ex code	K	D	D1	D2	L	L1
HA 63/CT 10 L 050	67 06/050 10	HSK63A	10	19	24	50	4
HA 63/CT 10 L 075	67 06/075 10	HSK63A	10	19	27	75	4
HA 63/CT 10 L 100	67 06/100 10	HSK63A	10	19	30	100	4
HA 63/CT 10 L 125	67 06/125 10	HSK63A	10	19	36	125	4
HA 63/CT 10 L 150	67 06/150 10	HSK63A	10	19	36	150	4
HA 63/CT 10 L 175	67 06/175 10	HSK63A	10	19	36	175	4
HA 63/CT 12 L 050	67 06/050 12	HSK63A	12	22	27	50	4
HA 63/CT 12 L 075	67 06/075 12	HSK63A	12	22	30	75	4
HA 63/CT 12 L 100	67 06/100 12	HSK63A	12	22	33	100	4
HA 63/CT 12 L 125	67 06/125 12	HSK63A	12	22	36	125	4
HA 63/CT 12 L 150	67 06/150 12	HSK63A	12	22	36	150	4
HA 63/CT 12 L 175	67 06/175 12	HSK63A	12	22	36	175	4
HA 63/CT 16 L 050	67 06/050 16	HSK63A	16	26	31	50	4
HA 63/CT 16 L 075	67 06/075 16	HSK63A	16	26	34	75	4
HA 63/CT 16 L 100	67 06/100 16	HSK63A	16	26	37	100	4

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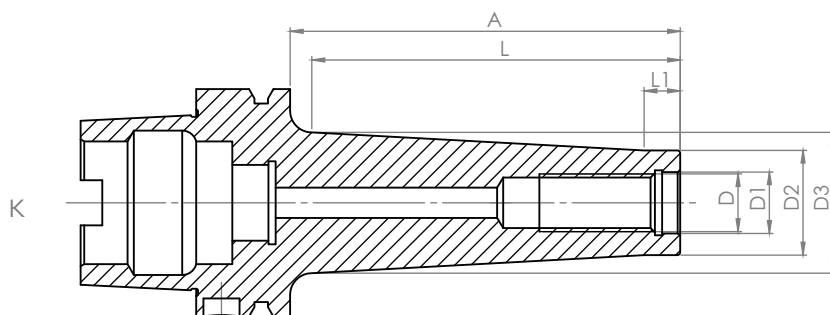


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PORTA TESTINA
screw-in endmills



HSK 63A DIN 69893 A

HSK 63A DIN 69893 A

NEW CODE	ex code	K	D	D1	D2	D3	L	L1	A
HA63/PT06 L025	79 06/025 06	HSK63A	M6	6,5	9,7	10	25	10	33
HA63/PT06 L050	79 06/050 06	HSK63A	M6	6,5	9,7	20	50	10	58
HA63/PT06 L075	79 06/075 06	HSK63A	M6	6,5	9,7	23	75	10	83
HA63/PT08 L025	79 06/025 08	HSK63A	M8	8,5	13	15	25	10	33
HA63/PT08 L050	79 06/050 08	HSK63A	M8	8,5	13	23	50	10	58
HA63/PT08 L050R	79 06/050 08R	HSK63A	M8	8,5	13	15	50	10	58
HA63/PT08 L075	79 06/075 08	HSK63A	M8	8,5	13	23	75	10	83
HA63/PT08 L075R	79 06/075 08R	HSK63A	M8	8,5	13	15	75	10	83
HA63/PT08 L100	79 06/100 08	HSK63A	M8	8,5	13	25	100	10	108
HA63/PT08 L100R	79 06/100 08R	HSK63A	M8	8,5	13	15	100	10	108
HA63/PT10 L025	79 06/025 10	HSK63A	M10	10,5	18	19,5	25	10	33
HA63/PT10 L050	79 06/050 10	HSK63A	M10	10,5	18	25	50	10	58
HA63/PT10 L050R	79 06/050 10R	HSK63A	M10	10,5	18	19,5	50	10	58
HA63/PT10 L075	79 06/075 10	HSK63A	M10	10,5	18	28	75	10	83
HA63/PT10 L075R	79 06/075 10R	HSK63A	M10	10,5	18	19,5	75	10	83
HA63/PT10 L100	79 06/100 10	HSK63A	M10	10,5	18	28	100	10	108
HA63/PT10 L100R	79 06/100 10R	HSK63A	M10	10,5	18	19,5	100	10	108
HA63/PT10 L125	79 06/125 10	HSK63A	M10	10,5	18	34	125	10	133
HA63/PT10 L125R	79 06/125 10R	HSK63A	M10	10,5	18	19,5	125	10	133

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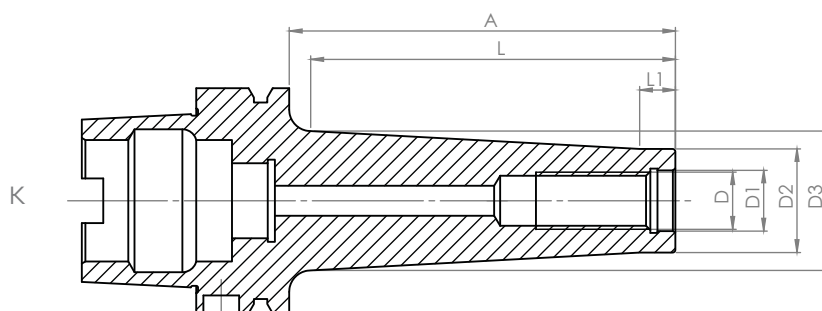


PRE-BALANCED



PORTA TESTINA screw-in endmills

HSK 63A DIN 69893 A



HSK 63A DIN 69893 A

NEW CODE	ex code	K	D	D1	D2	D3	L	L1	A
HA63/PT 12L025	79 06/025 12	HSK63A	M12	12,5	21	24	25	10	33
HA63/PT 12L050	79 06/050 12	HSK63A	M12	12,5	21	24	50	10	58
HA63/PT 12L075	79 06/075 12	HSK63A	M12	12,5	21	31	75	10	83
HA63/PT 12L075R	79 06/075 12R	HSK63A	M12	12,5	21	24	75	10	83
HA63/PT 12L100	79 06/100 12	HSK63A	M12	12,5	21	31	100	10	108
HA63/PT 12L100R	79 06/100 12R	HSK63A	M12	12,5	21	24	100	10	108
HA63/PT 12L125	79 06/125 12	HSK63A	M12	12,5	21	31	125	10	133
HA63/PT 12L150	79 06/150 12	HSK63A	M12	12,5	21	39	150	10	158
HA63/PT 12L175	79 06/175 12	HSK63A	M12	12,5	21	42	175	10	183
HA63/PT 16L025	79 06/025 16	HSK63A	M16	17	29	34	25	10	33
HA63/PT 16L050	79 06/050 16	HSK63A	M16	17	29	34	50	10	58
HA63/PT 16L075	79 06/075 16	HSK63A	M16	17	29	34	75	10	83
HA63 PT 16L100	79 06/100 16	HSK63A	M16	17	29	39	100	10	108
HA63/PT 16L100R	79 06/100 16R	HSK63A	M16	17	29	31	100	10	108
HA63/PT 16L125	79 06/125 16	HSK63A	M16	17	29	39	125	10	133
HA63/PT 16L125R	79 06/125 16R	HSK63A	M16	17	29	31	125	10	133
HA63/PT 16L150	79 06/150 16	HSK63A	M16	17	29	39	150	10	158
HA63/PT 16L175	79 06/175 16	HSK63A	M16	17	29	42	175	10	183
HA63/PT 16L200	79 06/200 16	HSK63A	M16	17	29	45	200	10	208

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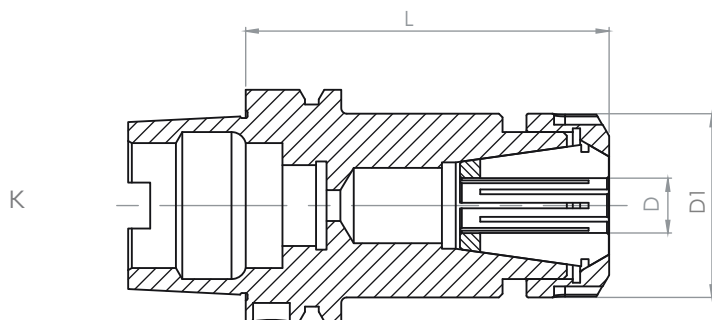


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PORTA PINZA
collet chucks



HSK 63A DIN 69893 A

HSK 63A DIN 69893 A

NEW CODE	ex code	K	D	D1	L	PINZA
HA 63/ER 16 L 80	NEW!	HSK63A	1-10	32	80	ER 16
HA 63/ER 16 L 100	30 00/63 16L100	HSK63A	1-10	32	100	ER 16
HA 63/ER 16 L 130	30 00/63 16L130	HSK63A	1-10	32	130	ER 16
HA 63/ER 16 L 160	30 00/63 16L160	HSK63A	1-10	32	160	ER 16
HA 63/ER 16 L 200	30 00/63 16L200	HSK63A	1-10	32	200	ER 16
HA 63/ER 20 L 100	30 00/63 20L100	HSK63A	1-13	35	100	ER 20
HA 63/ER 20 L 130	30 00/63 20L130	HSK63A	1-13	35	130	ER 20
HA 63/ER 20 L 160	30 00/63 20L160	HSK63A	1-13	35	160	ER 20
HA 63/ER 25 L 80	NEW!	HSK63A	1-16	42	80	ER 25
HA 63/ER 25 L 100	30 00/63 25L100	HSK63A	1-16	42	100	ER 25
HA 63/ER 25 L 130	30 00/63 25L130	HSK63A	1-16	42	130	ER 25
HA 63/ER 25 L 160	30 00/63 25L160	HSK63A	1-16	42	160	ER 25
HA 63/ER 32 L 80	NEW!	HSK63A	2-20	50	80	ER 32
HA 63/ER 32 L 100	30 00/63 32L100	HSK63A	2-20	50	100	ER 32
HA 63/ER 32 L 130	30 00/63 32L130	HSK63A	2-20	50	130	ER 32
HA 63/ER 32 L 160	30 00/63 32L160	HSK63A	2-20	50	160	ER 32
HA 63/ER 32 L 200	30 00/64 32L200	HSK63A	2-20	50	200	ER 32
HA 63/ER 40 L 90	NEW!	HSK63A	3-30	63	90	ER 40
HA 63/ER 40 L 100	30 00/63 40L100	HSK63A	3-30	63	100	ER 40
HA 63/ER 40 L 130	30 00/63 40L130	HSK63A	3-30	63	130	ER 40
HA 63/ER 40 L 160	30 00/63 40L160	HSK63A	3-30	63	160	ER 40



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pp. 178-179



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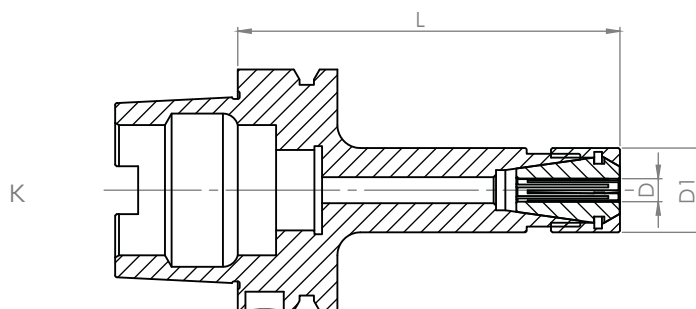
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PRE-BALANCED



PORTA PINZA TIPO MINI collet cucks mini type



HSK 63A DIN 69893 A

NEW CODE	ex code	K	D	D1	L	PINZA
HA63/ERM11 L100	30 10 /63 11 L100	HSK63A	1-7	16	100	ER 11
HA63/ERM11 L160	30 10 /63 11 L160	HSK63A	1-7	16	160	ER 11
HA63/ERM16 L100	30 10 /63 16 L100	HSK63A	1-10	22	100	ER 16
HA63/ERM16 L160	30 10 /63 16 L160	HSK63A	1-10	22	160	ER 16
HA63/ERM20 L100	30 10 /63 20 L100	HSK63A	1-13	28	100	ER 20
HA63/ERM20 L160	30 10 /63 20 L160	HSK63A	1-13	28	160	ER 20
HA63/ERM25 L100	30 10 /63 25 L100	HSK63A	1-16	35	100	ER 25
HA63/ERM25 L160	30 10 /63 25 L160	HSK63A	1-16	35	160	ER 25



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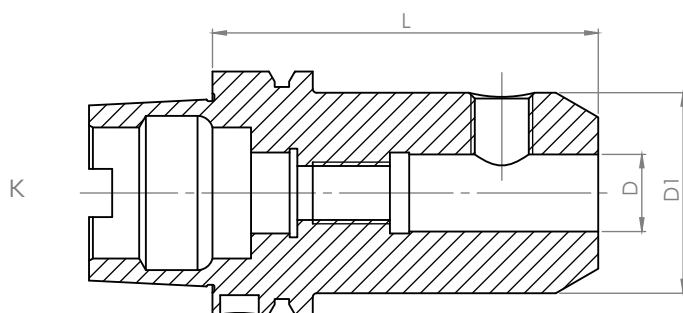


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MANDRINI PORTA FRESE TIPO WELDON end mill holders weldon



HSK 63A DIN 69893 A

HSK 63A DIN 69893 A

NEW CODE	ex code	K	D	D1	L
HA63/WE06 L65	3030/63 06 L65	HSK63A	6	25	65
HA63/WE06 L100	3030/63 06 L100	HSK63A	6	25	100
HA63/WE06 L130	3030/63 06 L130	HSK63A	6	25	130
HA63/WE06 L160	3030/63 06 L160	HSK63A	6	25	160
HA63/WE08 L65	3030/63 08 L65	HSK63A	8	28	65
HA63/WE08 L100	3030/63 08 L100	HSK63A	8	28	100
HA63/WE08 L130	3030/63 08 L130	HSK63A	8	28	130
HA63/WE08 L160	3030/63 08 L160	HSK63A	8	28	160
HA63/WE10 L65	3030/63 10 L65	HSK63A	10	35	65
HA63/WE10 L100	3030/63 10 L100	HSK63A	10	35	100
HA63/WE10 L130	3030/63 10 L130	HSK63A	10	35	130
HA63/WE10 L160	3030/63 10 L160	HSK63A	10	35	160
HA63/WE12 L80	3030/63 12 L80	HSK63A	12	42	80
HA63/WE12 L100	3030/63 12 L100	HSK63A	12	42	100
HA63/WE12 L130	3030/63 12 L130	HSK63A	12	42	130
HA63/WE12 L160	3030/63 12 L160	HSK63A	12	42	160

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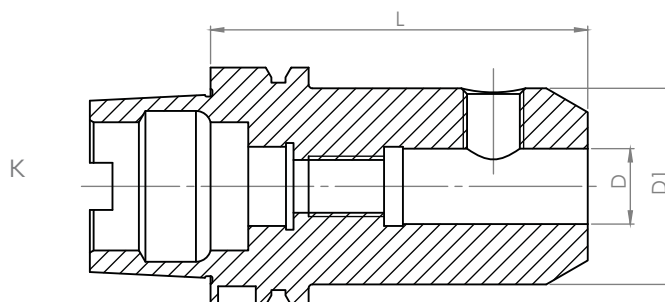
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PRE-BALANCED



MANDRINI PORTA FRESE TIPO WELDON end mill holders weldon



HSK 63A DIN 69893 A

NEW CODE	ex code	K	D	D1	L
HA 63/WE 16 L80	30 30 / 63 16 L80	HSK63A	16	42	80
HA 63/WE 16 L100	30 30 / 63 16 L100	HSK63A	16	42	100
HA 63/WE 16 L130	30 30 / 63 16 L130	HSK63A	16	42	130
HA 63/WE 16 L160	30 30 / 63 16 L160	HSK63A	16	42	160
HA 63/WE 20 L80	30 30 / 63 20 L80	HSK63A	20	42	80
HA 63/WE 20 L100	30 30 / 63 20 L100	HSK63A	20	42	100
HA 63/WE 20 L130	30 30 / 63 20 L130	HSK63A	20	42	130
HA 63/WE 20 L160	30 30 / 63 20 L160	HSK63A	20	42	160
HA 63/WE 25 L110	30 30 / 63 25 L110	HSK63A	25	63	110
HA 63/WE 25 L160	30 30 / 63 25 L160	HSK63A	25	63	160
HA 63/WE 32 L110	30 30 / 63 32 L110	HSK63A	32	63	110
HA 63/WE 32 L160	30 30 / 63 32 L110	HSK63A	32	63	160

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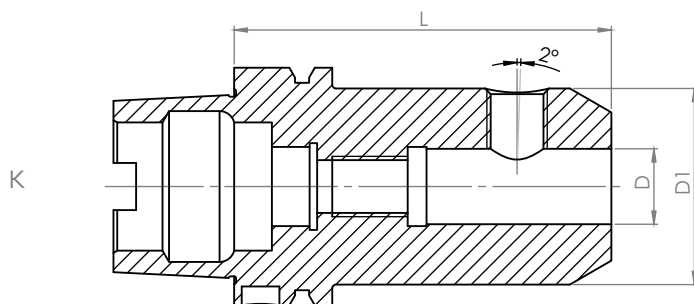


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MANDRINI PORTA FRESE TIPO WISTLE NOTCH end mill holders whistle notch



HSK 63A DIN 69893 A

HSK 63A DIN 69893 A

NEW CODE	ex code	K	D	D1	L
HA 63 /WN 06 L80	30 35 /63 06 L80	HSK63A	6	25	80
HA 63 /WN 08 L80	30 35 /63 08 L80	HSK63A	8	28	80
HA 63 /WN 10 L80	30 35 /63 10 L80	HSK63A	10	35	80
HA 63 /WN 12 L90	30 35 /63 12 L90	HSK63A	12	42	90
HA 63 /WN 14 L90	30 35 /63 14 L90	HSK63A	14	44	90
HA 63 /WN 16 L90	30 35 /63 16 L90	HSK63A	16	48	90
HA 63 /WN 18 L90	30 35 /63 18 L90	HSK63A	18	50	90
HA 63 /WN 20 L100	30 35 /63 20 L100	HSK63A	20	50	100
HA 63 /WN 25 L100	30 35 /63 25 L100	HSK63A	25	63	100
HA 63 /WN 32 L110	30 35 /63 32 L110	HSK63A	32	63	110



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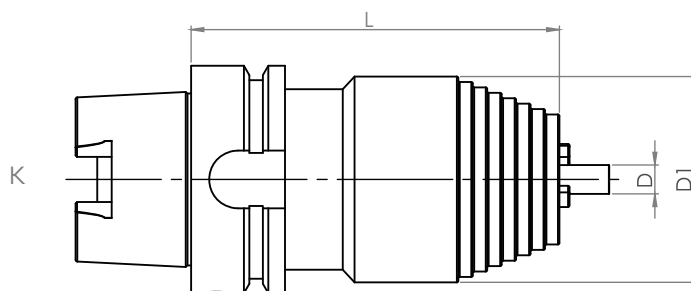


PRE-BALANCED



MANDRINI PORTA PUNTE INTEGRALI drill chuck holders

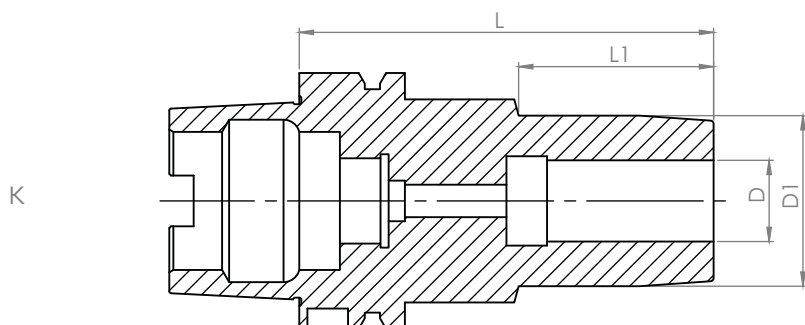
HSK 63A DIN 69893 A



HSK 63A DIN 69893 A

NEW CODE	ex code	K	D	D1	L
HA63 /PPI 08 L96	NEW!	HSK63A	0,3-8	36	96
HA63 /PPI 13 L104	30 55/63 13 L100	HSK63A	1-13	50	104
HA63 /PPI 16 L109	30 55/63 16 L109	HSK63A	2,5-16	57	109

MANDRINI IDRAULICI
hydraulic chuck



HSK 63A DIN 69893 A

HSK 63A DIN 69893 A

NEW CODE	ex code	K	D	D1	L	L1
HA63/HY06L70	30 58/63 06 L70	HSK63A	6	26	70	24
HA63/HY08L70	30 58/63 08 L70	HSK63A	8	28	70	24
HA63/HY10L75	30 58/63 10 L75	HSK63A	10	30	75	32
HA63/HY12L85	30 58/63 12 L85	HSK63A	12	32	85	40
HA63/HY14L85	30 58/63 14 L85	HSK63A	14	34	85	40
HA63/HY16L90	30 58/63 16 L90	HSK63A	16	38	90	45
HA63/HY18L90	30 58/63 18 L90	HSK63A	18	40	90	46
HA63/HY20L90	30 58/63 20 L90	HSK63A	20	42	90	48
HA63/HY25L120	30 58/63 25 L120	HSK63A	25	57	120	63
HA63/HY32L125	30 58/63 32 L120	HSK63A	32	63	125	60

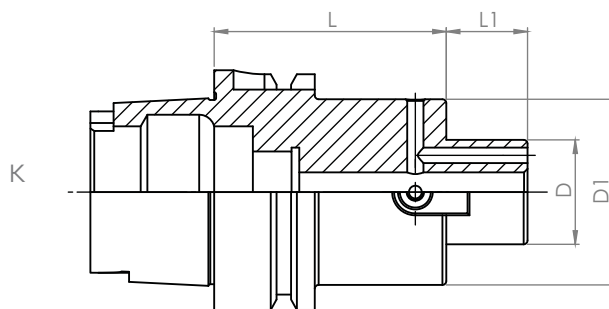


PRE-BALANCED



MANDRINI PORTA FRESE TRASCINAMENTO FISSO shell-end mill holder

HSK 63A DIN 69893 A



HSK 63A DIN 69893 A

NEW CODE	ex code	K	D	D1	L	L1
HA63/PF 16L50	30 60/63 16L50	HSK63A	16	32	50	17
HA63/PF 22L50	30 60/63 22L50	HSK63A	22	40	50	19
HA63/PF 22L100	30 61/63 22L100	HSK63A	22	40	100	19
HA63/PF 22L130	30 61/63 22L130	HSK63A	22	40	130	19
HA63/PF 22L160	30 61/63 22L160	HSK63A	22	40	160	19
HA63/PF 27L60	30 60/63 27L60	HSK63A	27	48	60	21
HA63/PF 27L100	30 61/63 27L100	HSK63A	27	48	100	21
HA63/PF 27L130	30 61/63 27L130	HSK63A	27	48	130	21
HA63/PF 27L160	30 61/63 27L160	HSK63A	27	48	160	21
HA63/PF 32L60	30 60/63 32L60	HSK63A	32	58	60	24
HA63/PF 32L100	30 61/63 32L100	HSK63A	32	58	100	24
HA63/PF 32L160	30 61/63 32L160	HSK63A	32	58	160	24
HA63/PF 40L60	30 60/63 40L60	HSK63A	40	70	60	27
HA63/PF 40L100	30 61/63 40L100	HSK63A	40	70	100	27
HA63/PF 40L160	30 61/63 40L160	HSK63A	40	70	160	27



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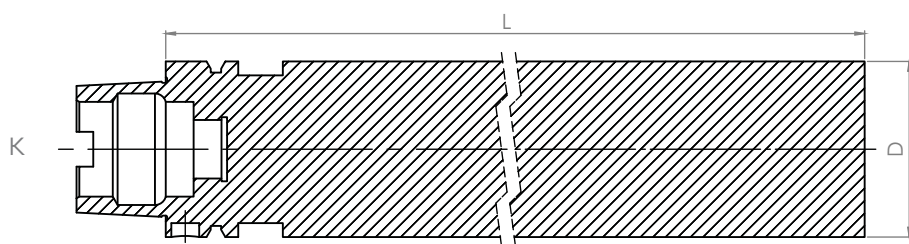


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MANDRINO STELO TENERO blank arbors



HSK 63A DIN 69893 A

HSK 63A DIN 69893 A

NEW CODE	ex code	K	D	L
HA63/ST 63 L 250	30 80/63 63 L250	HSK63A	63	250
HA63/ST 80 L 250	NEW!	HSK63A	80	250

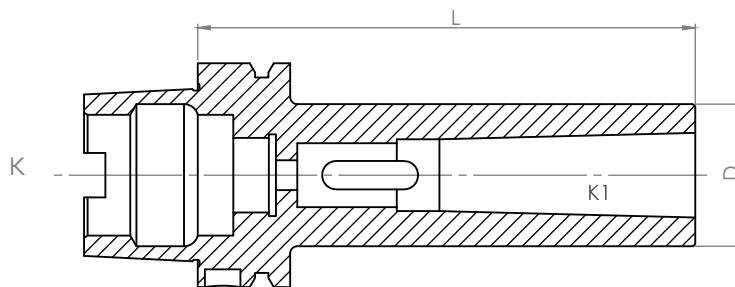


PRE-BALANCED



RIDUZIONE CONO MORSE PER PUNTE drills morse taper adapter

HSK 63A DIN 69893 A



HSK 63A DIN 69893 A

NEW CODE	ex code	K	K1	D	L
HA63/CMP 1 L100	3090/63 01 L100	HSK63A	CM 1	25	100
HA63/CMP 2 L120	3090/63 02 L120	HSK63A	CM 2	32	120
HA63/CMP 3 L140	3090/63 03 L140	HSK63A	CM 3	40	140
HA63/CMP 4 L160	3090/63 04 L160	HSK63A	CM 4	48	160

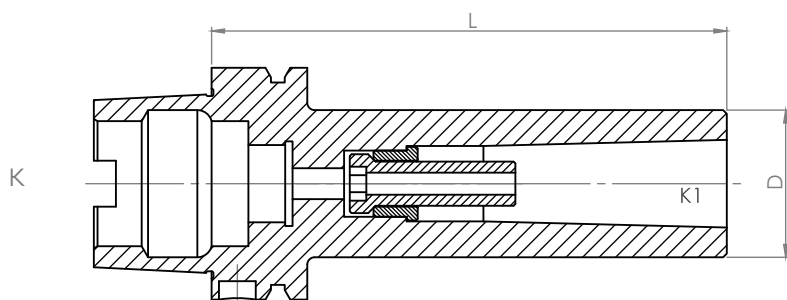


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RIDUZIONE CONO MORSE PER FRESE end mills morse taper adapter



HSK 63A DIN 69893 A

HSK 63A DIN 69893 A

NEW CODE	ex code	K	K1	D	L
HA63/CMF 1L100	30 91/63 01 L100	HSK63A	CM 1	25	100
HA63/CMF 2L120	30 91/63 02 L120	HSK63A	CM 2	32	120
HA63/CMF 3L140	30 91/63 03 L140	HSK63A	CM 3	40	140
HA63/CMF 4L160	30 91/63 04 L160	HSK63A	CM 4	48	160



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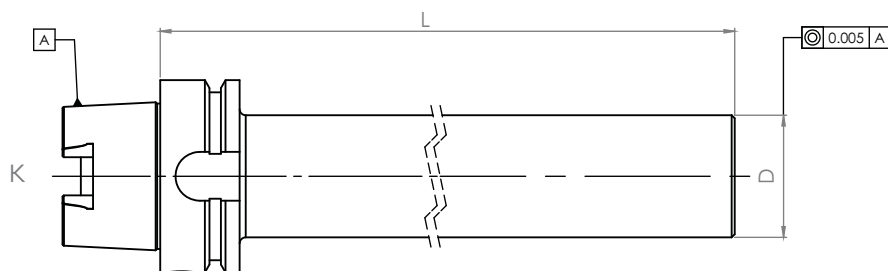


PRE-BALANCED



ALBERI DI CONTROLLO test arbors

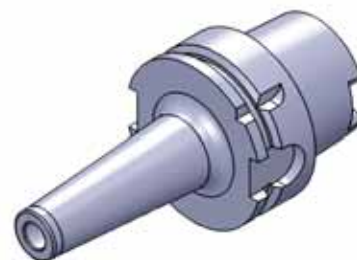
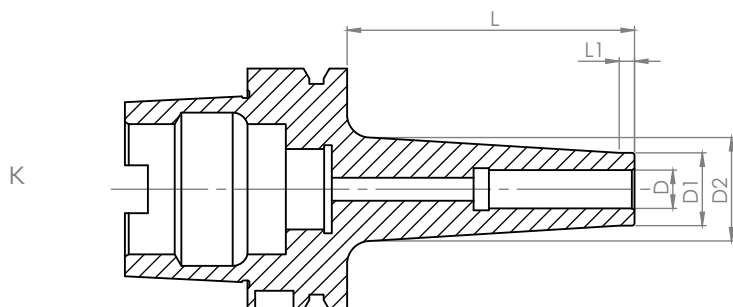
HSK 63A DIN 69893 A



HSK 63A DIN 69893 A

NEW CODE	ex code	K	D	L
HA63/AC40L300	30 98/63 40 L 300	HSK63A	40	300

CALETTAMENTO A CALDO
heat shrinking



HSK 80A DIN 69893 A

HSK 80A DIN 69893 A

NEW CODE	ex code	K	D	D1	D2	L	L1
HA80/CT 06L075	67 80/075 06	HSK80A	6	12	20	75	4
HA80/CT 06L100	67 80/100 06	HSK80A	6	12	23	100	4
HA80/CT 08L075	67 80/075 08	HSK80A	8	17	25	75	4
HA80/CT 08L100	67 80/100 08	HSK80A	8	17	28	100	4
HA80/CT 10L075	67 80/075 10	HSK80A	10	19	27	75	4
HA80/CT 10L100	67 80/100 10	HSK80A	10	19	30	100	4
HA80/CT 12L075	67 80/075 12	HSK80A	12	22	33	75	4
HA80/CT 12L100	67 80/100 12	HSK80A	12	22	36	100	4
HA80/CT 16L075	67 80/075 16	HSK80A	16	26	37	75	4
HA80/CT 16L100	67 80/100 16	HSK80A	16	26	40	100	4



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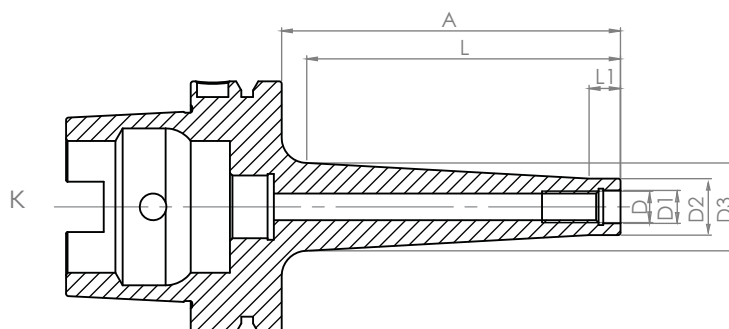


PRE-BALANCED



PORTA TESTINA screw-in endmills

HSK 80A DIN 69893 A



HSK 80A DIN 69893 A

NEW CODE	ex code	K	D	D1	D2	D3	L	L1	A
HA80/PT 06L050	79 08/05006	HSK80A	M6	6,5	9,7	20	50	10	58
HA80/PT 06L075	79 08/07506	HSK80A	M6	6,5	9,7	23	75	10	83
HA80/PT 08L050	79 08/05008	HSK80A	M8	8,5	13	23	50	10	58
HA80/PT 08L075	79 08/07508	HSK80A	M8	8,5	13	23	75	10	83
HA80/PT 08L100	79 08/10008	HSK80A	M8	8,5	13	25	100	10	108
HA80/PT 10L050	79 08/05010	HSK80A	M10	10,5	18	25	50	10	58
HA80/PT 10L075	79 08/07510	HSK80A	M10	10,5	18	28	75	10	83
HA80/PT 10L100	79 08/10010	HSK80A	M10	10,5	18	30	100	10	108
HA80/PT 12L050	79 08/05012	HSK80A	M12	12,5	21	24	50	10	58
HA80/PT 12L075	79 08/07512	HSK80A	M12	12,5	21	31	75	10	83
HA80/PT 12L100	79 08/10012	HSK80A	M12	12,5	21	31	100	10	108
HA80/PT 16L050	79 08/05016	HSK80A	M16	17	29	34	50	10	58
HA80/PT 16L075	79 08/07516	HSK80A	M16	17	29	34	75	10	83
HA80/PT 16L100	79 08/10016	HSK80A	M16	17	29	34	100	10	108
HA80/PT 16L125	79 08/12516	HSK80A	M16	17	29	34	125	10	133
HA80/PT 16L150	79 08/15016	HSK80A	M16	17	29	34	150	10	158



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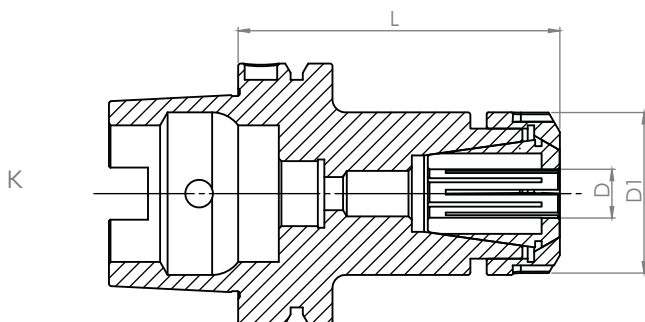


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PORTA PINZA
collet chucks



HSK 80A DIN 69893 A

HSK 80A DIN 69893 A

NEW CODE	ex code	K	D	D1	L	PINZA
HA 80/ER 32L100	3000/80 32L100	HSK80A	2-20	50	100	ER 32
HA 80/ER 32L160	3000/80 32L160	HSK80A	2-20	50	160	ER 32



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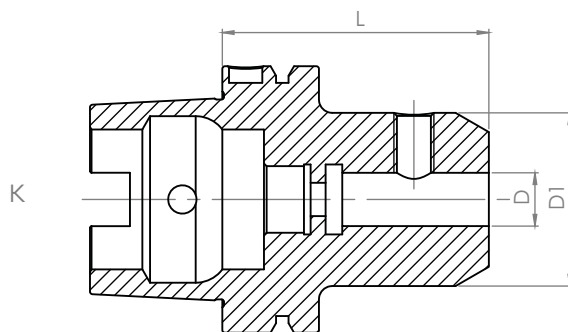


PRE-BALANCED



MANDRINI PORTA FRESE TIPO WELDON end mill holders weldon

HSK 80A DIN 69893 A



HSK 80A DIN 69893 A

NEW CODE	ex code	K	D	D1	L
HA80/WE 06L80	3030/80 06L80	HKS80A	6	25	80
HA80/WE 08L80	3030/80 08L80	HSK80A	8	28	80
HA80/WE 10L80	3030/80 10L80	HSK80A	10	35	80
HA80/WE 12L80	3030/80 12L80	HSK80A	12	42	80
HA80/WE 16L100	3030/80 16L100	HSK80A	16	42	100
HA80/WE 20L100	3030/80 20L100	HSK80A	20	42	100
HA80/WE 25L100	3030/80 25L110	HSK80A	25	63	110
HA80/WE 32L100	3030/80 32L120	HSK80A	32	63	120



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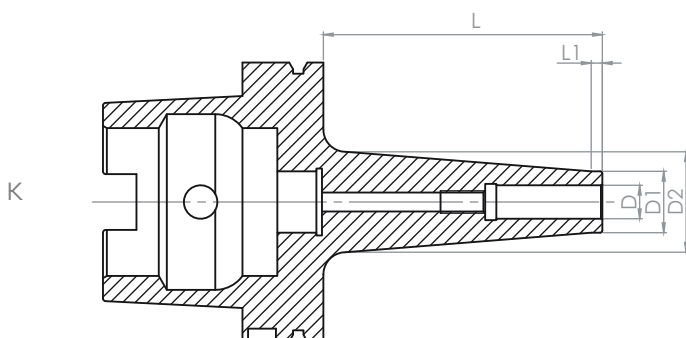


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CALETTAMENTO A CALDO heat shrinking



HSK 100A DIN 69893 A

HSK 100A DIN 69893 A

NEW CODE	ex code	K	D	D1	D2	L	L1
HA 10/CT 06 L075	67 10/07506	HSK100A	6	12	20	75	4
HA 10/CT 06 L100	67 10/10006	HSK100A	6	12	23	100	4
HA 10/CT 08 L075	67 10/07508	HSK100A	8	17	25	75	4
HA 10/CT 08 L100	67 10/10008	HSK100A	8	17	28	100	4
HA 10/CT 10 L075	67 10/07510	HSK100A	10	19	27	75	4
HA 10/CT 10 L100	67 10/10010	HSK100A	10	19	30	100	4
HA 10/CT 12 L075	67 10/07512	HSK100A	12	22	33	75	4
HA 10/CT 12 L100	67 10/10012	HSK100A	12	22	36	100	4
HA 10/CT 16 L075	67 10/07516	HSK100A	16	26	37	75	4
HA 10/CT 16 L100	67 10/10016	HSK100A	16	26	40	100	4



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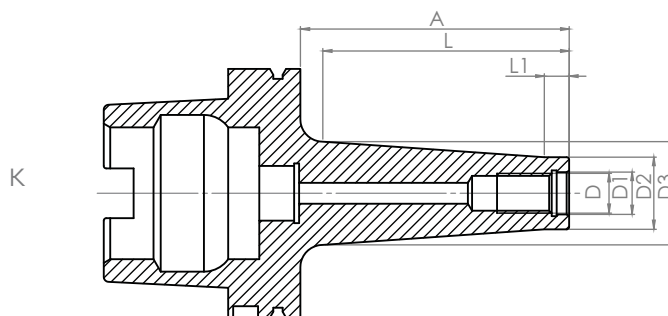


PRE-BALANCED



PORTA TESTINA screw-in endmills

HSK 100A DIN 69893 A



HSK 100A DIN 69893 A

NEW CODE	ex code	K	D	D1	D2	D3	L	L1	A
HA10/PT12L050	7910/05012	HSK100A	M12	12,5	21	24	50	10	58
HA10/PT12L100	7910/10012	HSK100A	M12	12,5	21	47	100	10	108
HA10/PT12L150	7910/15012	HSK100A	M12	12,5	21	55	150	10	158
HA10/PT16L050	7910/05016	HSK100A	M16	17	29	31,5	50	10	58
HA10/PT16L100	7910/10016	HSK100A	M16	17	29	47	100	10	108
HA10/PT16L150	7910/15016	HSK100A	M16	17	29	55	150	10	158
HA10/PT16L200	7910/20016	HSK100A	M16	17	29	55	200	10	208



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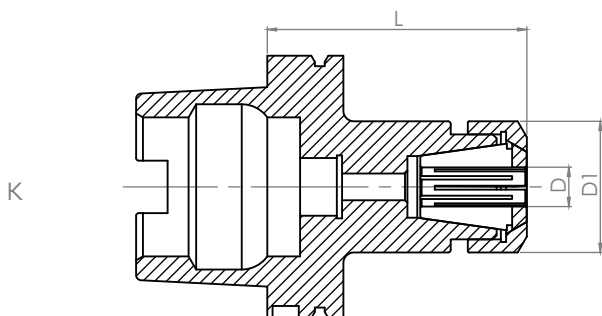


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PORTA PINZA collet chucks



HSK 100A DIN 69893 A

HSK 100A DIN 69893 A

NEW CODE	ex code	K	D	D1	L	PINZA
HA10/ER16L100	NEW!	HSK100A	1-10	32	100	ER 16
HA10/ER16L160		HSK100A	1-10	32	160	ER 16
HA10/ER25L100	NEW!	HSK100A	1-16	42	100	ER 25
HA10/ER25L160		HSK100A	1-16	42	160	ER 25
HA10/ER32L100	3000/10 32L100	HSK100A	2-20	50	100	ER 32
HA10/ER32L160	3000/10 32L160	HSK100A	2-20	50	160	ER 32
HA10/ER32L200	NEW!	HSK100A	2-20	50	200	ER 32
HA10/ER40L100	3000/10 40L100	HSK100A	3-30	63	100	ER 40
HA10/ER40L160	3000/10 40L160	HSK100A	3-30	63	160	ER 40



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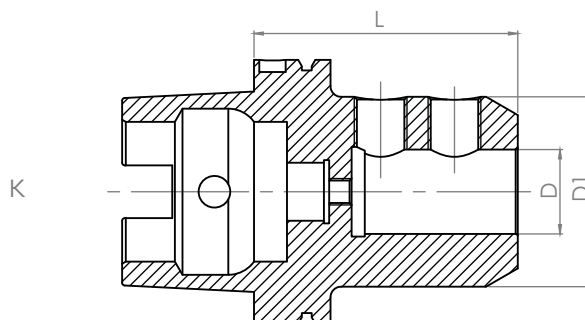


PRE-BALANCED



MANDRINI PORTA FRESE TIPO WELDON end mill holders weldon

HSK 100A DIN 69893 A



HSK 100A DIN 69893 A

NEW CODE	ex code	K	D	D1	L
HA10 /WE 06 L080	3030/100 06 L080	HSK100A	6	25	80
HA10 /WE 06 L160	3030/100 06 L160	HSK100A	6	25	160
HA10 /WE 08 L080	3030/100 08 L080	HSK100A	8	28	80
HA10 /WE 08 L160	3030/100 08 L160	HSK100A	8	28	160
HA10 /WE 10 L080	3030/100 10 L080	HSK100A	10	35	80
HA10 /WE 10 L160	3030/100 10 L160	HSK100A	10	35	160
HA10 /WE 12 L080	3030/100 12 L080	HSK100A	12	42	80
HA10 /WE 12 L160	3030/100 12 L160	HSK100A	12	42	160
HA10 /WE 16 L100	3030/100 16 L100	HSK100A	16	48	100
HA10 /WE 16 L160	3030/100 16 L160	HSK100A	16	48	160
HA10 /WE 20 L100	3030/100 20 L100	HSK100A	20	52	100
HA10 /WE 20 L160	3030/100 20 L160	HSK100A	20	52	160
HA10 /WE 25 L100	3030/100 25 L100	HSK100A	25	65	100
HA10 /WE 25 L160	3030/100 25 L160	HSK100A	25	65	160
HA10 /WE 32 L100	3030/100 32 L100	HSK100A	32	72	100
HA10 /WE 32 L160	3030/100 32 L160	HSK100A	32	72	160
HA10 /WE 40 L100	3030/100 40 L100	HSK100A	40	90	100



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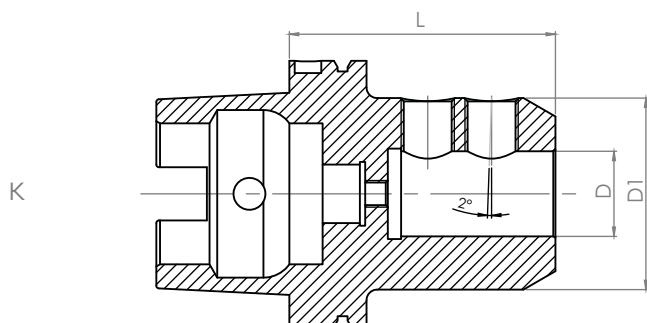


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MANDRINI PORTA FRESE TIPO WISTLE NOTCH end mill holders whistle notch



HSK 100A DIN 69893 A

HSK 100A DIN 69893 A

NEW CODE	ex code	K	D	D1	L
HA10 / WN 06 L90	30 35 / 10 06 L90	HSK100A	6	25	90
HA10 / WN 08 L90	30 35 / 10 08 L90	HSK100A	8	28	90
HA10 / WN 10 L90	30 35 / 10 10 L90	HSK100A	10	35	90
HA10 / WN 12 L100	30 35 / 10 12 L100	HSK100A	12	42	100
HA10 / WN 14 L100	30 35 / 10 14 L100	HSK100A	14	44	100
HA10 / WN 16 L100	30 35 / 10 16 L100	HSK100A	16	48	100
HA10 / WN 18 L100	30 35 / 10 18 L100	HSK100A	18	50	100
HA10 / WN 20 L100	30 35 / 10 20 L100	HSK100A	20	50	100
HA10 / WN 25 L100	30 35 / 10 25 L100	HSK100A	25	63	100
HA10 / WN 32 L100	30 35 / 10 32 L100	HSK100A	32	75	100



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PRE-BALANCED

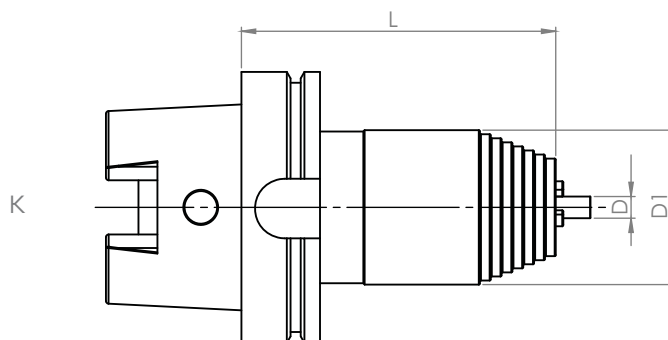


OFFICINE[®]
VALBUSA

specialmente mandrini

MANDRINI PORTA PUNTE INTEGRALI drill chuck holders

HSK 100A DIN 69893 A



HSK 100A DIN 69893 A

NEW CODE	ex code	K	D	D1	L
HA 10/PPI 13 L110	3055/1013 L110	HSK100A	1-13	50	110
HA 10/PPI 16 L115	3055/1016 L115	HSK100A	2,5-16	57	115



**OFFICINE
VALBUSA®**

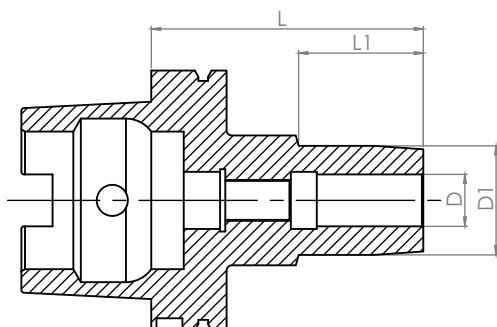
specialmente mandrini



PRE-BALANCED

MANDRINI IDRAULICI hydraulic chuck

K



HSK 100A DIN 69893 A

HSK 100A DIN 69893 A

NEW CODE	ex code	K	D	D1	L	L1
HA 10/HY06L75		HSK100A	6	26	70	24
HA 10/HY08L70		HSK100A	8	28	70	24
HA 10/HY10L90		HSK100A	10	30	75	32
HA 10/HY12L95		HSK100A	12	32	85	40
HA 10/HY14L95	NEW!	HSK100A	14	34	85	40
HA 10/HY16L100		HSK100A	16	38	90	45
HA 10/HY18L100		HSK100A	18	40	90	45
HA 10/HY20L105	3058/100 20L90	HSK100A	20	42	90	48
HA 10/HY25L110		HSK100A	25	57	120	62
HA 10/HY32L110	NEW!	HSK100A	32	63	120	62

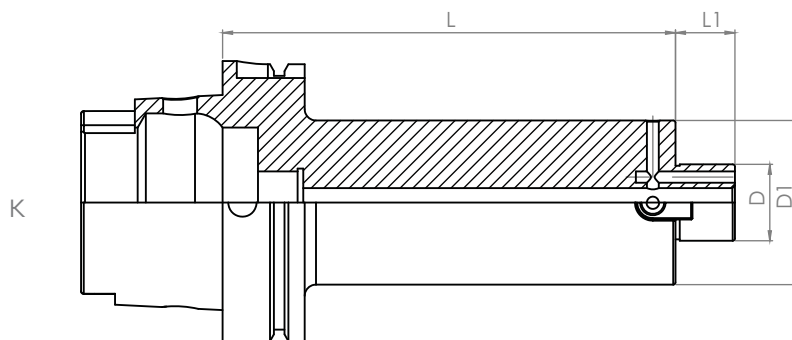


PRE-BALANCED



MANDRINI PORTA FRESE TRASCINAMENTO FISSO shell-end mill holder

HSK 100A DIN 69893 A



HSK 100A DIN 69893 A

NEW CODE	ex code	K	D	D1	L	L1
HA 10/PF 16L50	3060/100 16L50	HSK100A	16	38	50	17
HA 10/PF 22L50	3060/100 22L50	HSK100A	22	48	50	19
HA 10/PF 22L100	3061/100 22L100	HSK100A	22	48	100	19
HA 10/PF 22L160	3061/100 22L160	HSK100A	22	48	160	19
HA 10/PF 22L220	3061/100 22L220	HSK100A	22	48	220	19
HA 10/PF 27L50	3060/100 27L50	HSK100A	27	58	50	21
HA 10/PF 27L100	3061/100 27L100	HSK100A	27	58	100	21
HA 10/PF 27L160	3061/100 27L160	HSK100A	27	58	160	21
HA 10/PF 27L220	3061/100 27L220	HSK100A	27	58	220	21
HA 10/PF 32L60	3060/100 32L60	HSK100A	32	66	50	24
HA 10/PF 32L100	3061/100 32L100	HSK100A	32	66	100	24
HA 10/PF 32L160	3061/100 32L160	HSK100A	32	66	160	24
HA 10/PF 32L220	3061/100 32L220	HSK100A	32	66	220	24
HA 10/PF 40L60	3060/100 40L60	HSK100A	40	80	60	27



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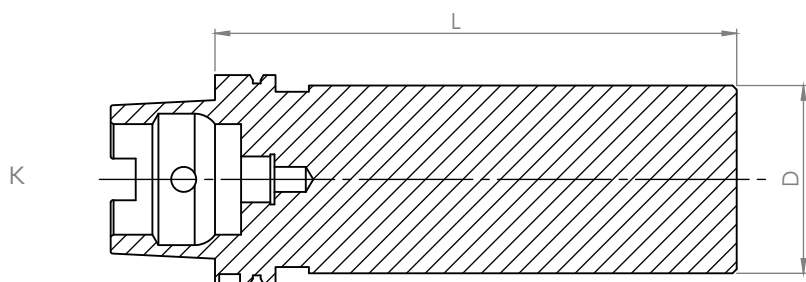


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MANDRINI STELO TENERO blank arbors



HSK 100A DIN 69893 A

HSK 100A DIN 69893 A

NEW CODE	ex code	K	D	L
HA 10/ST 90L250	3080/100 90L250	HSK100A	90	250

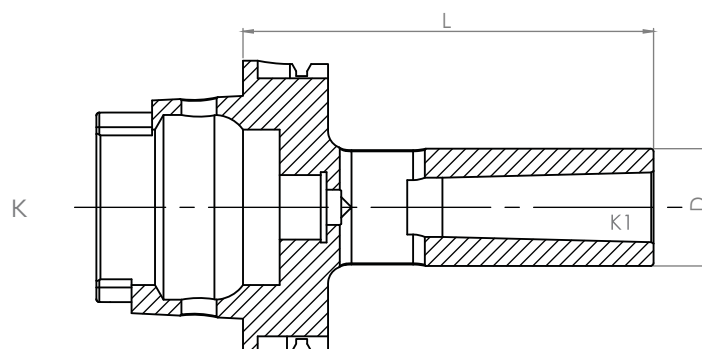


PRE-BALANCED



RIDUZIONE CONO MORSE PER PUNTE drills morse taper adapter

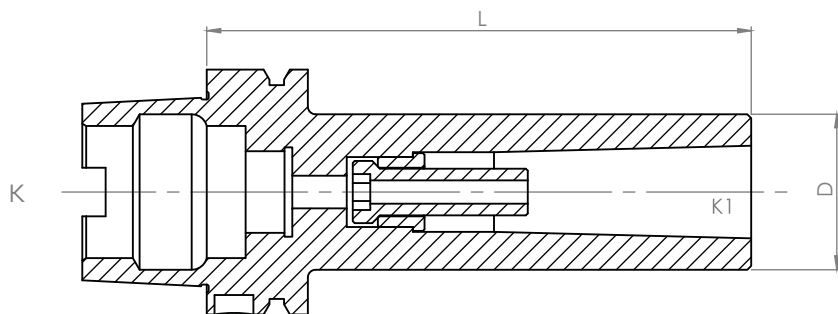
HSK 100A DIN 69893 A



HSK 100A DIN 69893 A

NEW CODE	ex code	K	K1	D	L
HA10/CMP2L120	3090/10 02L120	HSK100A	CM 2	32	120
HA10/CMP3L140	3090/10 03L140	HSK100A	CM 3	40	140
HA10/CMP4L170	3090/10 04L170	HSK100A	CM 4	48	170

RIDUZIONE CONO MORSE PER FRESE end mills morse taper adapter



HSK 100A DIN 69893 A

HSK 100A DIN 69893 A

NEW CODE	ex code	K	K1	D	L
HA10/CMF 2 L120	3091/1002L120	HSK100A	CM 2	32	120
HA10/CMF 3 L140	3091/1003L140	HSK100A	CM 3	40	140
HA10/CMF 4 L160	3091/1004L160	HSK100A	CM 4	48	160



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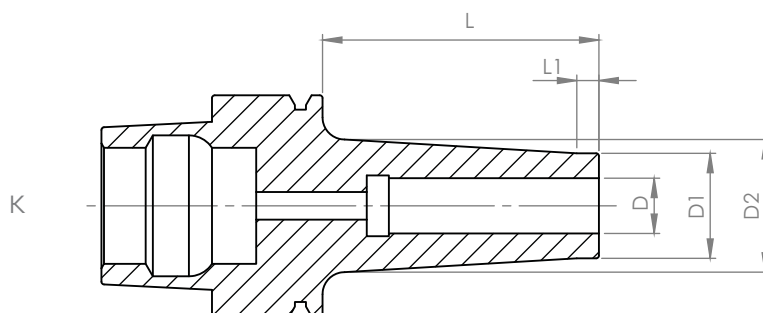


PRE-BALANCED



CALETTAMENTO A CALDO heat shrinking

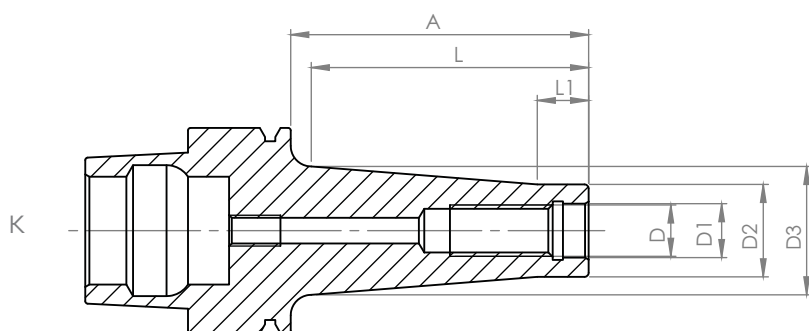
HSK 40E DIN 69893 E



HSK 40E DIN 69893 E

NEW CODE	ex code	K	D	D1	D2	L	L1
HE40/CT04L050	6704/05004E	HSK40E	4	10	15	50	4
HE40/CT04L075	6704/07504E	HSK40E	4	10	17	75	4
HE40/CT06L050	6704/05006E	HSK40E	6	12	17	50	4
HE40/CT06L075	6704/07506E	HSK40E	6	12	20	75	4
HE40/CT06L100	6704/10006E	HSK40E	6	12	23	100	4
HE40/CT08L050	6704/05008E	HSK40E	8	17	22	50	4
HE40/CT08L075	6704/07508E	HSK40E	8	17	25	75	4
HE40/CT08L100	6704/10008E	HSK40E	8	17	28	100	4
HE40/CT10L050	6704/05010E	HSK40E	10	19	24	50	4
HE40/CT10L075	6704/07510E	HSK40E	10	19	27	75	4
HE40/CT10L100	6704/10010E	HSK40E	10	19	30	100	4

PORTA TESTINA
screw-in endmills



HSK 40E DIN 69893 E

HSK 40E DIN 69893 E

NEW CODE	ex code	K	D	D1	D2	D3	L	L1	A
HE40/PT06L025	7904/02506E	HSK40E	M6	6,5	9,7	10	25	35	33
HE40/PT06L050	7904/05006E	HSK40E	M6	6,5	9,7	20	50	10	58
HE40/PT06L075	7904/07506E	HSK40E	M6	6,5	9,7	23	75	10	83
HE40/PT08L025	7904/02508E	HSK40E	M8	8,5	13	15	25	10	33
HE40/PT08L050	7904/05008E	HSK40E	M8	8,5	13	23	50	10	58
HE40/PT08L075	7904/07508E	HSK40E	M8	8,5	13	23	75	10	83
HE40/PT08L100	7904/10008E	HSK40E	M8	8,5	13	25	100	10	108
HE40/PT10L025	7904/02510E	HSK40E	M10	10,5	18	20	25	10	33
HE40/PT10L050	7904/05010E	HSK40E	M10	10,5	18	25	50	10	58
HE40/PT10L075	7904/07510E	HSK40E	M10	10,5	18	28	75	10	83
HE40 PT10L100	7904/10010E	HSK40E	M10	10,5	18	30	100	10	108
HE40/PT12L025	7904/02512E	HSK40E	M12	12,5	21	24	25	10	33
HE40/PT12L050	7904/05012E	HSK40E	M12	12,5	21	24	50	10	58
HE40/PT12L075	7904/07512E	HSK40E	M12	12,5	21	31	75	10	83
HE40/PT12L100	7904/10012E	HSK40E	M12	12,5	21	31	100	10	108



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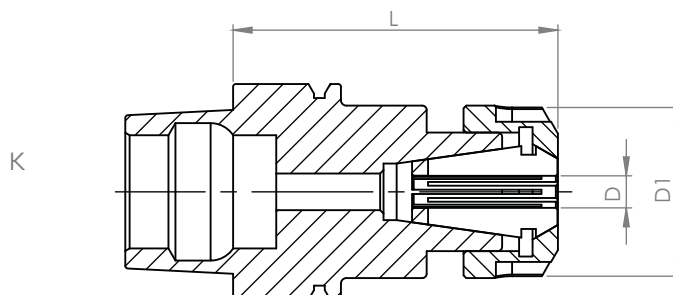


PRE-BALANCED



PORTA PINZA collet chucks

HSK 40E DIN 69893 E



HSK 40E DIN 69893 E

NEW CODE	ex code	K	D	D1	L	PINZA
HE40/ER16L60	3200/4016L60	HSK40E	1-10	32	60	ER16
HE40/ER25L70	3200/4025L70	HSK40E	1-16	42	70	ER25

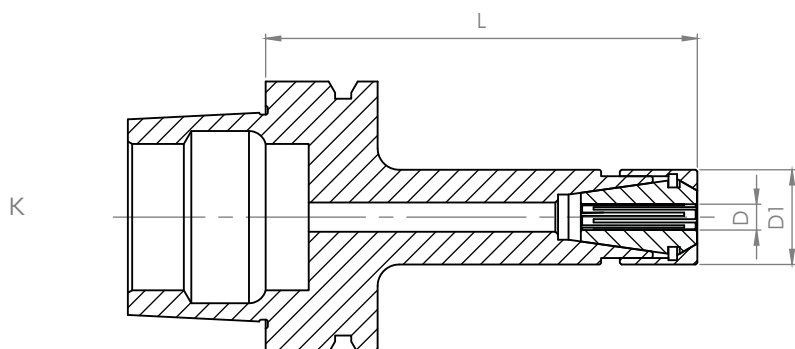


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PORTA PINZA collet chucks mini type



HSK 40E DIN 69893 E

HSK 40E DIN 69893 E

NEW CODE	ex code	K	D	D1	L	PINZA
HE40/ERM11L100	3210/4011L100	HSK40E	1-7	16	100	ER11
HE40/ERM16L100	3210/4016L100	HSK40E	1-10	22	100	ER16



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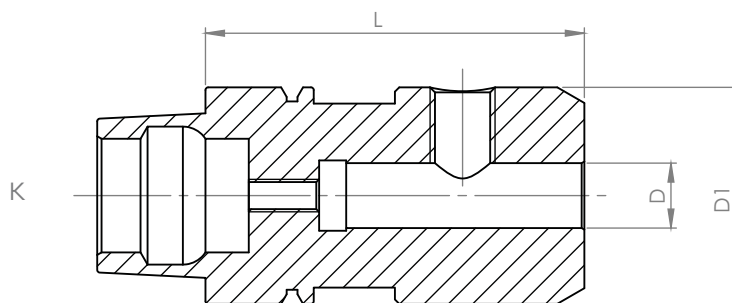


PRE-BALANCED



MANDRINI PORTA FRESE TIPO WELDON end mill holders weldon

HSK 40E DIN 69893 E



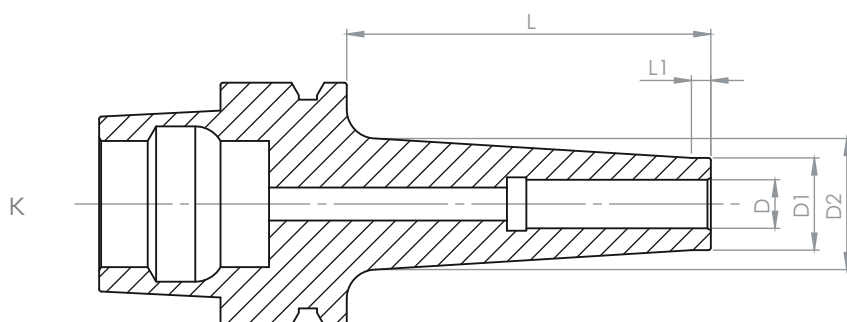
HSK 40E DIN 69893 E

NEW CODE	ex code	K	D	D1	L
HE40/WE06L60	3030/40 06L60	HSK40E	6	25	60
HE40/WE08L60	3030/40 08L60	HSK40E	8	28	60
HE40/WE10L65	3030/40 10L65	HSK40E	10	35	65
HE40/WE12L70	3030/40 12L70	HSK40E	12	42	70
HE40/WE16L75	3030/40 16L75	HSK40E	16	48	75



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CALETTAMENTO A CALDO
heat shrinking



HSK 50E DIN 69893 E

HSK 50E DIN 69893 E

NEW CODE	ex code	K	D	D1	D2	L	L1
HE50/CT04L050	6750/05004E	HSK50E	4	10	15	50	4
HE50/CT04L075	6750/07504E	HSK50E	4	10	17	75	4
HE50/CT06L050	6750/05006E	HSK50E	6	12	17	50	4
HE50/CT06L075	6750/07506E	HSK50E	6	12	20	75	4
HE50/CT06L100	6750/10006E	HSK50E	6	12	23	100	4
HE50/CT08L050	6750/05008E	HSK50E	8	17	22	50	4
HE50/CT08L075	6750/07508E	HSK50E	8	17	25	75	4
HE50/CT08L100	6750/10008E	HSK50E	8	17	28	100	4
HE50/CT10L050	6750/05010E	HSK50E	10	19	24	50	4
HE50/CT10L075	6750/07510E	HSK50E	10	19	27	75	4
HE50/CT10L100	6750/10010E	HSK50E	10	19	30	100	4

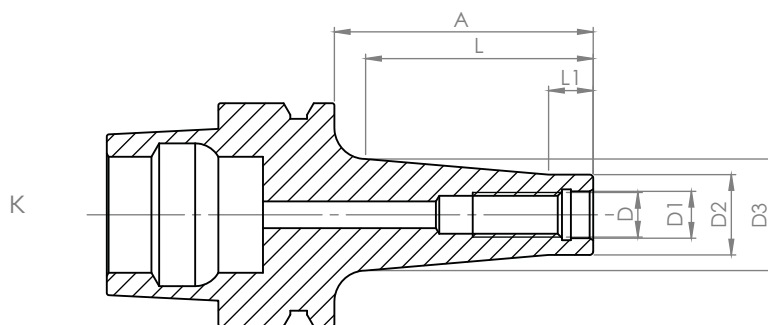


PRE-BALANCED



PORTA TESTINA screw-in endmills

HSK 50E DIN 69893 E



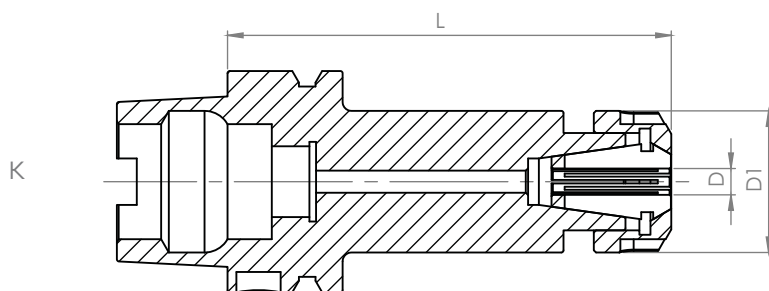
HSK 50E DIN 69893 E

NEW CODE	ex code	K	D	D1	D2	D3	L	L1	A
HE 50/PT 06L025	7905/025 06E	HSK50E	M6	6,5	9,7	10	25	10	33
HE 50/PT 06L050	7905/050 06E	HSK50E	M6	6,5	9,7	20	50	10	58
HE 50 PT 06L075	7905/075 06E	HSK50E	M6	6,5	9,7	23	75	10	83
HE 50/PT 08L025	7905/025 08E	HSK50E	M8	8,5	13	15	25	10	33
HE 50/PT 08L050	7905/050 08E	HSK50E	M8	8,5	13	23	50	10	58
HE 50/PT 08L075	7905/075 08E	HSK50E	M8	8,5	13	23	75	10	83
HE 50/PT 08L100	7905/100 08E	HSK50E	M8	8,5	13	25	100	10	108
HE 50/PT 10L025	7905/025 10E	HSK50E	M10	10,5	18	20	25	10	33
HE 50/PT 10L050	7905/050 10E	HSK50E	M10	10,5	18	25	50	10	58
HE 50/PT 10L075	7905/075 10E	HSK50E	M10	10,5	18	28	75	10	83
HE 50 PT 10L100	7905/100 10E	HSK50E	M10	10,5	18	30	100	10	108
HE 50/PT 12L025	7905/025 12E	HSK50E	M12	12,5	21	24	25	10	33
HE 50/PT 12L050	7905/050 12E	HSK50E	M12	12,5	21	24	50	10	58
HE 50/PT 12L075	7905/075 12E	HSK50E	M12	12,5	21	31	75	10	83
HE 50/PT 12L100	7905/100 12E	HSK50E	M12	12,5	21	31	100	10	108



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PORTA PINZA
collet chucks



HSK 50E DIN 69893 E

HSK 50E DIN 69893 E

NEW CODE	ex code	K	D	D1	L	PINZA
HE 50/ER 16L100	3200/50 16L100	HSK50E	1-10	32	100	ER16
HE 50/ER 25L100	3200/50 25L100	HSK50E	1-16	42	100	ER25
HE 50/ER 32L100	3200/50 32L100	HSK50E	2-20	50	100	ER32



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pp. 178-179

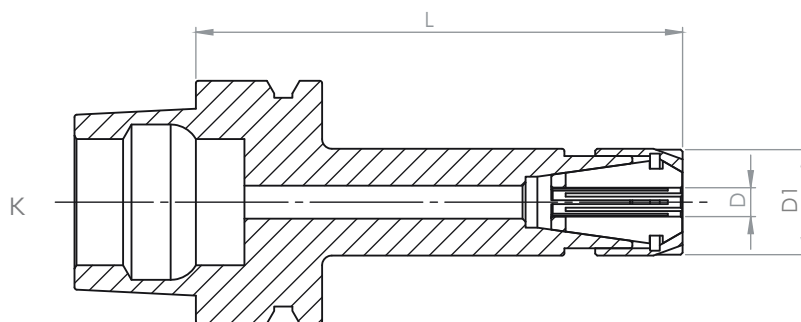


PRE-BALANCED



PORTA PINZA collet chucks mini type

HSK 50E DIN 69893 E



HSK 50E DIN 69893 E

NEW CODE	ex code	K	D	D1	L	PINZA
HE 50/ERM 11 L100	32 10/50 11 L100	HSK50E	1-7	16	100	ER11
HE 50/ERM 16 L100	32 10/50 16 L100	HSK50E	1-10	22	100	ER16

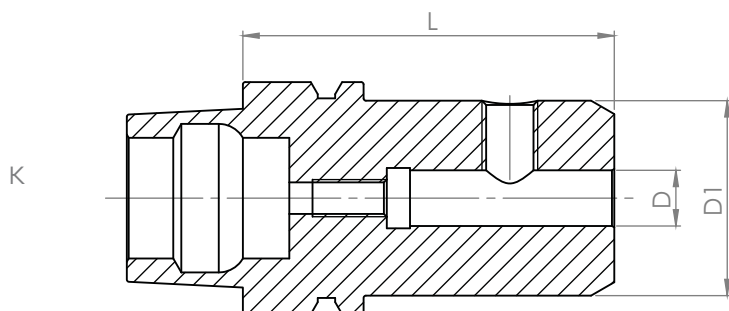


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MANDRINI PORTA FRESE TIPO WELDON end mill holders weldon



HSK 50E DIN 69893 E

HSK 50E DIN 69893 E

NEW CODE	ex code	K	D	D1	L
HE 50/WE 06 L65	3230/5006L65	HSK50E	6	25	65
HE 50/WE 08 L65	3230/5008L65	HSK50E	8	28	65
HE 50/WE 10 L65	3230/5010L65	HSK50E	10	35	65
HE 50/WE 12 L80	3230/5012L80	HSK50E	12	42	80
HE 50/WE 16 L80	3230/5016L80	HSK50E	16	48	80
HE 50/WE 20 L80	3230/5020L80	HSK50E	20	50	80



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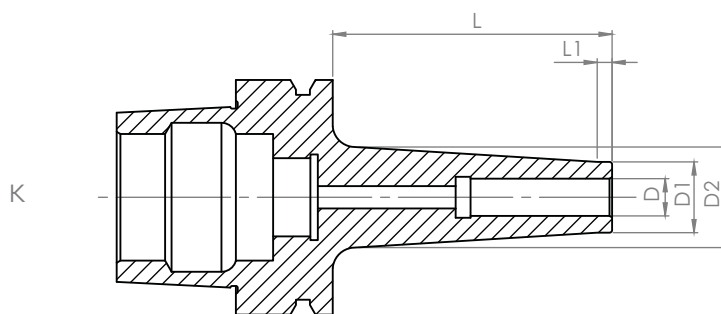
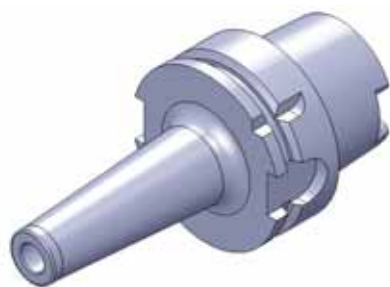


PRE-BALANCED



CALETTAMENTO A CALDO heat shrinking

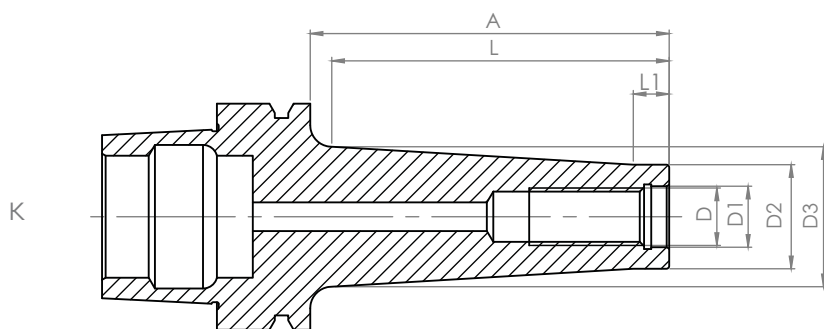
HSK 63E DIN 69893 E



HSK 63E DIN 69893 E

NEW CODE	ex code	K	D	D1	D2	L	L1
HE63/CT04L050	6706/05004E	HSK63E	4	10	15	50	4
HE63/CT04L075	6706/07504E	HSK63E	4	10	17	75	4
HE63/CT06L075	6706/07506E	HSK63E	6	12	20	75	4
HE63/CT06L100	6706/10006E	HSK63E	6	12	23	100	4
HE63/CT08L075	6706/07508E	HSK63E	8	17	25	75	4
HE63/CT08L100	6706/10008E	HSK63E	8	17	28	100	4
HE63/CT10L075	6706/07510E	HSK63E	10	19	27	75	4
HE63/CT10L100	6706/10010E	HSK63E	10	19	30	100	4
HE63/CT12L075	6706/07512E	HSK63E	12	22	30	75	4
HE63/CT12L100	6706/10012E	HSK63E	12	22	33	100	4
HE63/CT16L075	6706/07516E	HSK63E	16	26	34	75	4
HE63/CT16L100	6706/10016E	HSK63E	16	26	37	100	4

PORTA TESTINA
screw-in endmills



HSK 63E DIN 69893 E

HSK 63E DIN 69893 E

NEW CODE	ex code	K	D	D1	D2	D3	L	L1	A
HE63/PT 06L025	7906/025 06E	HSK63E	M6	6,5	9,7	10	25	10	33
HE63/PT 06L050	7906/050 06E	HSK63E	M6	6,5	9,7	20	50	10	58
HE63/PT 06L075	7906/075 06E	HSK63E	M6	6,5	9,7	23	75	10	83
HE63/PT 08L025	7906/025 08E	HSK63E	M8	8,5	13	15	25	10	33
HE63/PT 08L050	7906/050 08E	HSK63E	M8	8,5	13	23	50	10	58
HE63/PT 08L075	7906/075 08E	HSK63E	M8	8,5	13	23	75	10	83
HE63/PT 08L100	7906/100 08E	HSK63E	M8	8,5	13	25	100	10	108
HE63/PT 10L025	7906/025 10E	HSK63E	M10	10,5	18	19,5	25	10	33
HE63/PT 10L050	7906/050 10E	HSK63E	M10	10,5	18	25	50	10	58
HE63/PT 10L075	7906/075 10E	HSK63E	M10	10,5	18	28	75	10	83
HE63/PT 10L100	7906/100 10E	HSK63E	M10	10,5	18	28	100	10	108
HE63/PT 12L025	7906/025 12E	HSK63E	M12	12,5	21	24	25	10	33
HE63/PT 12L050	7906/050 12E	HSK63E	M12	12,5	21	24	50	10	58
HE63/PT 12L075	7906/075 12E	HSK63E	M12	12,5	21	31	75	10	83
HE63/PT 12L100	7906/100 12E	HSK63E	M12	12,5	21	31	100	10	108
HE63/PT 12L125	7906/125 12E	HSK63E	M12	12,5	21	31	125	10	133
HE63/PT 16L025	7906/025 16E	HSK63E	M16	17	29	34	25	10	33
HE63/PT 16L050	7906/050 16E	HSK63E	M16	17	29	34	50	10	58
HE63/PT 16L075	7906/075 16E	HSK63E	M16	17	29	34	75	10	83
HE63/PT 16L100	7906/100 16E	HSK63E	M16	17	29	39	100	10	108
HE63/PT 16L125	7906/125 16E	HSK63E	M16	17	29	39	125	10	133



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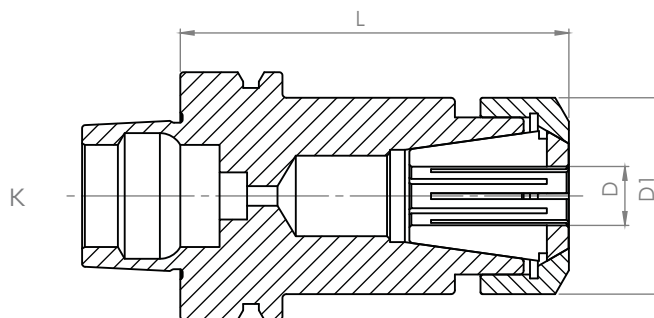


PRE-BALANCED



PORTA PINZA collet chucks

HSK 63E DIN 69893 E



HSK 63E DIN 69893 E

NEW CODE	ex code	K	D	D1	L	PINZA
HE 63/ER 16 L100	3200/63 16L100	HSK63E	1-10	32	100	ER16
HE 63/ER 25 L100	3200/63 25L100	HSK63E	1-16	42	100	ER25
HE 63/ER 32 L100	3200/63 32L100	HSK63E	2-20	50	100	ER32
HE 63/ER 40 L100	3200/63 40L100	HSK63E	3-30	63	100	ER40

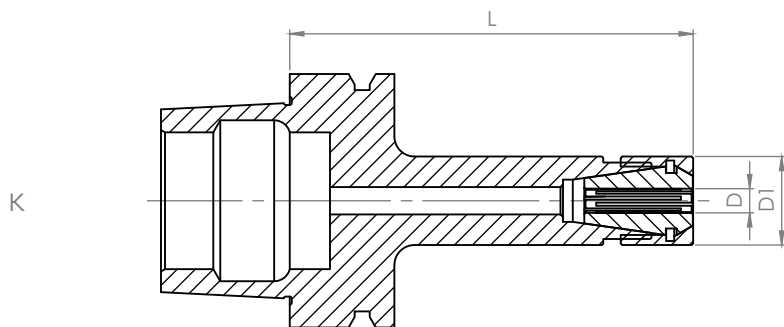


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PORTA PINZA collet chucks mini type



HSK 63E DIN 69893 E

HSK 63E DIN 69893 E

NEW CODE	ex code	K	D	D1	L	PINZA
HE 63/ERM 16 L100	32 10/63 16 L100	HSK63E	1-10	22	100	ER16
HE 63/ERM 25 L100	32 10/63 25 L100	HSK63E	1-16	32	100	ER25



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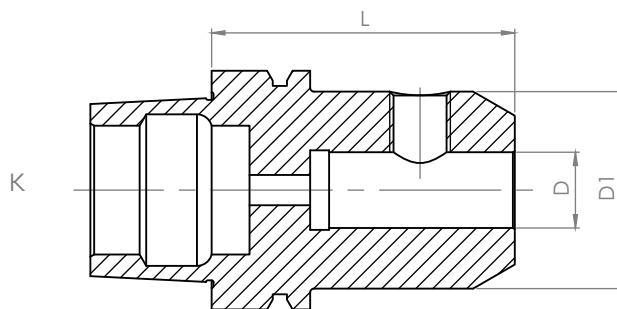


PRE-BALANCED



MANDRINI PORTA FRESE TIPO WELDON end mill holders weldon

HSK 63E DIN 69893 E



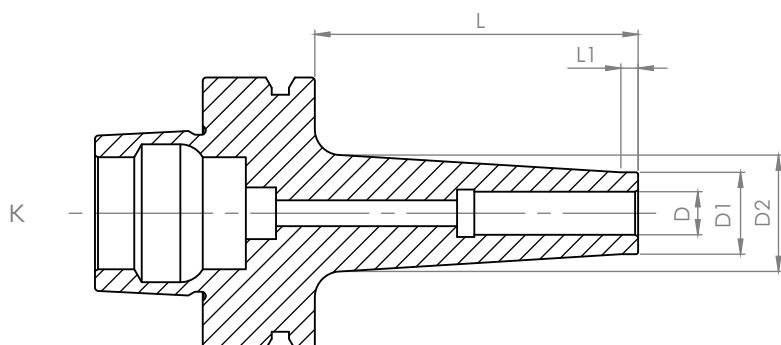
HSK 63E DIN 69893 E

NEW CODE	ex code	K	D	D1	L
HE 63/WE 06L65	3230/63 06L65	HSK63E	6	25	65
HE 63/WE 08L65	3230/63 08L65	HSK63E	8	28	65
HE 63/WE 10L65	3230/63 10L65	HSK63E	10	35	65
HE 63/WE 12L80	3230/63 12L80	HSK63E	12	42	80
HE 63/WE 16L80	3230/63 16L80	HSK63E	16	48	80
HE 63/WE 20L80	3230/63 20L80	HSK63E	20	52	80
HE 63/WE 25L110	3230/63 25L110	HSK63E	25	63	110
HE 63/WE 32L110	3230/63 32L110	HSK63E	32	63	110



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CALETTAMENTO A CALDO
heat shrinking



HSK 63E DIN 69893 F

HSK 63F DIN 69893 F

NEW CODE	ex code	K	D	D1	D2	L	L1
HF 63/CT 04L050	67 06/05004E	HSK 63F	4	10	15	50	4
HF 63/CT 04L075	67 06/07504E	HSK 63F	4	10	17	75	4
HF 63/CT 06L075	67 06/07506E	HSK 63F	6	12	20	75	4
HF 63/CT 06L100	67 06/10006E	HSK 63F	6	12	23	100	4
HF 63/CT 08L075	67 06/07508E	HSK 63F	8	17	25	75	4
HF 63/CT 08L100	67 06/10008E	HSK 63F	8	17	28	100	4
HF 63/CT 10L075	67 06/07510E	HSK 63F	10	19	27	75	4
HF 63/CT 10L100	67 06/10010E	HSK 63F	10	19	30	100	4
HF 63/CT 12L075	67 06/07512E	HSK 63F	12	22	30	75	4
HF 63/CT 12L100	67 06/10012E	HSK 63F	12	22	33	100	4
HF 63/CT 16L075	67 06/07516E	HSK 63F	16	26	34	75	4
HF 63/CT 16L100	67 06/10016E	HSK 63F	16	26	37	100	4

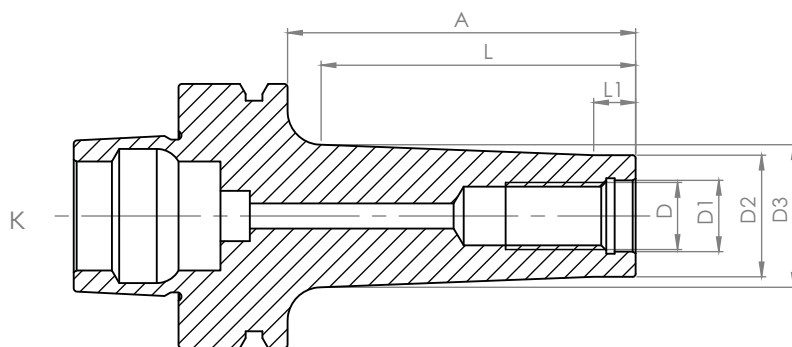


PRE-BALANCED



PORTA TESTINA screw-in endmills

HSK 63E DIN 69893 F



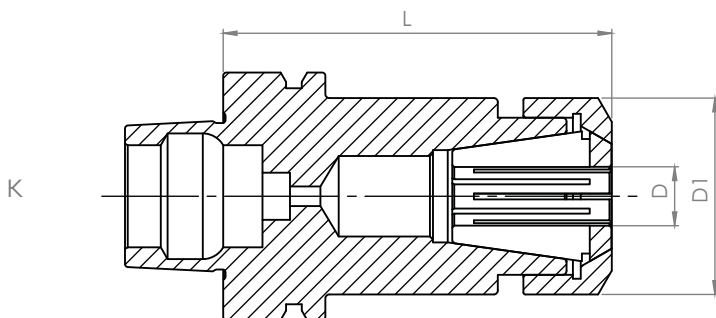
HSK 63F DIN 69893 F

NEW CODE	ex code	K	D	D1	D2	D3	L	L1	A
HF63/PT06L025	7906/02506F	HSK 63F	M6	6,5	9,7	10	25	10	33
HF63/PT06L050	7906/05006F	HSK 63F	M6	6,5	9,7	20	50	10	58
HF63/PT06L075	7906/07506F	HSK 63F	M6	6,5	9,7	23	75	10	83
HF63/PT08L025	7906/02508F	HSK 63F	M8	8,5	13	15	25	10	33
HF63/PT08L050	7906/05008F	HSK 63F	M8	8,5	13	23	50	10	58
HF63/PT08L075	7906/07508F	HSK 63F	M8	8,5	13	23	75	10	83
HF63/PT08L100	7906/10008F	HSK 63F	M8	8,5	13	25	100	10	108
HF63/PT10L025	7906/02510F	HSK 63F	M10	10,5	18	19,5	25	10	33
HF63/PT10L050	7906/05010F	HSK 63F	M10	10,5	18	25	50	10	58
HF63/PT10L075	7906/07510F	HSK 63F	M10	10,5	18	28	75	10	83
HF63/PT10L100	7906/10010F	HSK 63F	M10	10,5	18	28	100	10	108
HF63/PT12L025	7906/02512F	HSK 63F	M12	12,5	21	24	25	10	33
HF63/PT12L050	7906/05012F	HSK 63F	M12	12,5	21	24	50	10	58
HF63/PT12L075	7906/07512F	HSK 63F	M12	12,5	21	31	75	10	83
HF63/PT12L100	7906/10012F	HSK 63F	M12	12,5	21	31	100	10	108
HF63/PT16L025	7906/02516F	HSK 63F	M16	17	29	34	25	10	33
HF63/PT16L050	7906/05016F	HSK 63F	M16	17	29	34	50	10	58
HF63/PT16L075	7906/07516F	HSK 63F	M16	17	29	34	75	10	83
HF63/PT16L100	7906/10016F	HSK 63F	M16	17	29	39	100	10	108



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PORTA PINZA
collet chucks



HSK 63E DIN 69893 F

HSK 63F DIN 69893 F

NEW CODE	ex code	K	D	D1	L	PINZA
HF63/ER16L100	3400/6316L100	HSK63F	1-10	32	100	ER16
HF63/ER20L100	3400/6320L100	HSK63F	1-13	35	100	ER20
HF63/ER25L100	3400/6325L100	HSK63F	1-16	42	100	ER25
HF63/ER32L100	3400/6332L100	HSK63F	2-20	50	100	ER32
HF63/ER40L100	3400/6340L100	HSK63F	3-30	63	100	ER40



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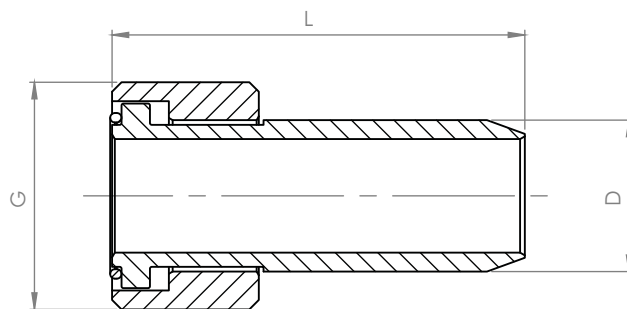


PRE-BALANCED



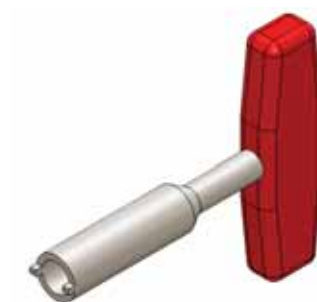
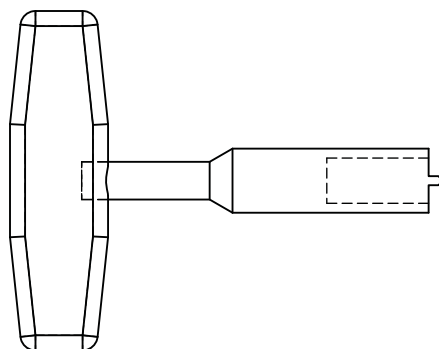
ADDUTTORE PER REFRIGERANTE cooling feed

ACCESSORI DIN 69893



CODE	HSK	D	L	G
35 00/40	40	8	29	M12x1
35 00/50	50	10	33	M16x1
35 00/63	63	12	36.6	M18x1
35 00/80	80	14	39.6	M20x1
35 00/100	100	16	44	M24x1

CHIAVI spanners



ACCESSORI DIN 69893

NEW CODE	HSK
35 00/40	40
35 00/50	50
35 00/63	63
35 00/80	80
35 00/100	100

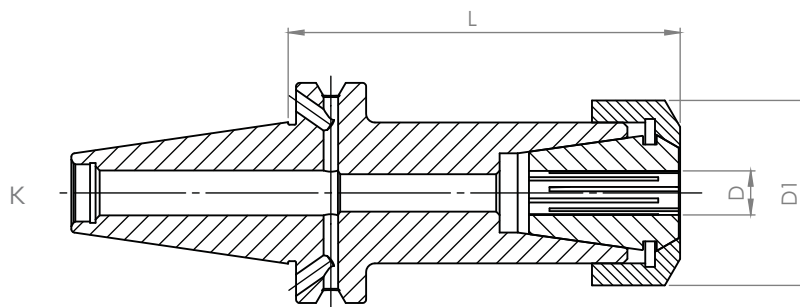


PRE-BALANCED



PORTA PINZA ER collet chucks

ISO 30 DIN 69871/AD



ISO 30 DIN 69871/AD

NEW CODE	ex code	K	D	D1	L	PINZA
TC30/ER25L50	8060/3025L50	ISO30	1-16	42	50	ER25
TC30/ER25L90	8060/3025L90	ISO30	1-16	42	90	ER25
TC30/ER32L50	8060/3032L50	ISO30	2-20	50	50	ER32
TC30/ER32L90	8060/3032L90	ISO30	2-20	50	90	ER32



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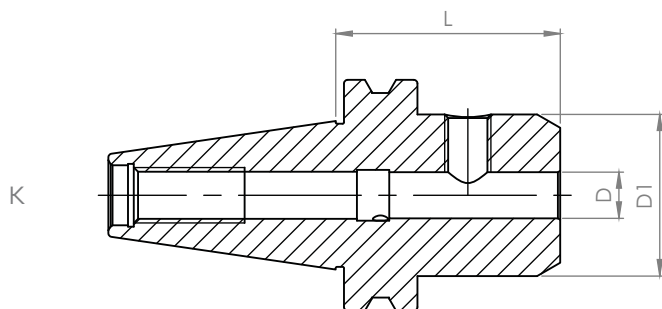


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MANDRINI PORTA FRESE TIPO WELDON end mill holders weldon



ISO 30 DIN 69871/AD

ISO 30 DIN 69871/AD

NEW CODE	ex code	K	D	D1	L
TC30/WE 06 BL 50	9230/30 06L50	ISO 30	6	25	50
TC30/WE 08 BL 50	9230/30 08L50	ISO 30	8	28	50
TC30/WE 10 BL 50	9230/30 10L50	ISO 30	10	35	50
TC30/WE 12 BL 50	9230/30 12L50	ISO 30	12	42	50
TC30/WE 16 BL 63	9230/30 16L63	ISO 30	16	48	63
TC30/WE 20 BL 70	9230/30 20L70	ISO 30	20	52	70



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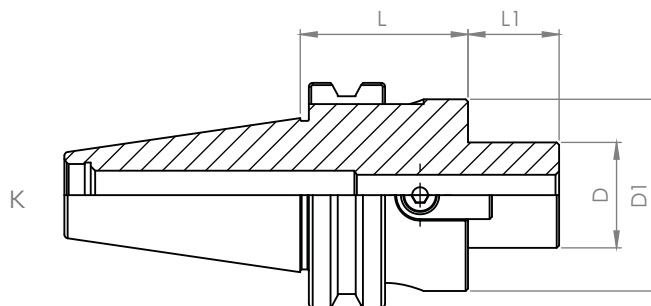


PRE-BALANCED



MANDRINI PORTA FRESE TRASCINAMENTO FISSO shell-end mill holder

ISO 30 DIN 69871/A



ISO 30A DIN 69871/A

NEW CODE	ex code	K	D	D1	L	L1
TC 30/PF 16 L35	92 60/30 16 L35	ISO 30	16	38	35	17
TC 30/PF 22 L35	92 60/30 22 L35	ISO 30	22	48	34	19
TC 30/PF 27 L35	92 60/30 27 L35	ISO 30	27	58	34	21

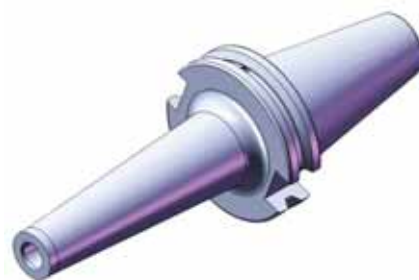
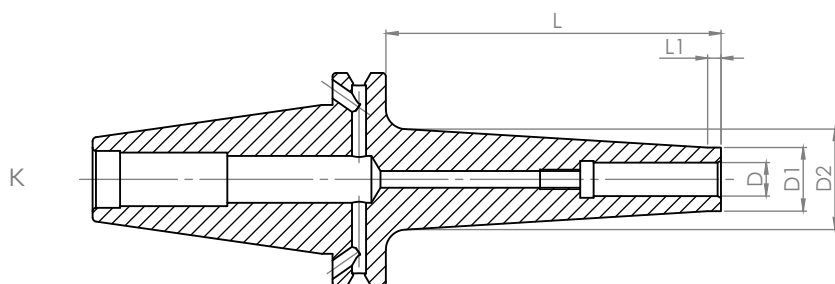


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CALETTAMENTO A CALDO heat shrinking



ISO 40 DIN 69871/ADB

ISO 40 DIN 69871/ADB

NEW CODE	ex code	K	D	D1	D2	L	L1
TC 40/CT 04L050	65 40/05004	ISO40	4	10	15	50	4
TC 40/CT 04L075	65 40/07504	ISO40	4	10	17	75	4
TC 40/CT 06L050	65 40/05006	ISO40	6	12	17	50	4
TC 40/CT 06L075	65 40/07506	ISO40	6	12	20	75	4
TC 40/CT 06L100	65 40/10006	ISO40	6	12	23	100	4
TC 40/CT 06L150	65 40/15006	ISO40	6	12	28	150	4
TC 40/CT 08L050	65 40/05008	ISO40	8	17	22	50	4
TC 40/CT 08L075	65 40/07508	ISO40	8	17	25	75	4
TC 40/CT 08L100	65 40/10008	ISO40	8	17	28	100	4
TC 40/CT 08L150	65 40/15008	ISO40	8	17	32	150	4
TC 40/CT 10L050	65 40/05010	ISO40	10	19	24	50	4
TC 40/CT 10L075	65 40/07510	ISO40	10	19	27	75	4
TC 40/CT 10L100	65 40/10010	ISO40	10	19	30	100	4
TC 40/CT 10L150	65 40/15010	ISO40	10	19	35	150	4
TC 40/CT 12L050	65 40/05012	ISO40	12	22	27	50	4
TC 40/CT 12L075	65 40/07512	ISO40	12	22	30	75	4
TC 40/CT 12L100	65 40/10012	ISO40	12	22	33	100	4
TC 40/CT 12L150	65 40/15012	ISO40	12	22	38	150	4
TC 40/CT 16L050	65 40/05016	ISO40	16	26	31	50	4
TC 40/CT 16L075	65 40/07516	ISO40	16	26	34	75	4
TC 40/CT 16L100	65 40/10016	ISO40	16	26	37	100	4



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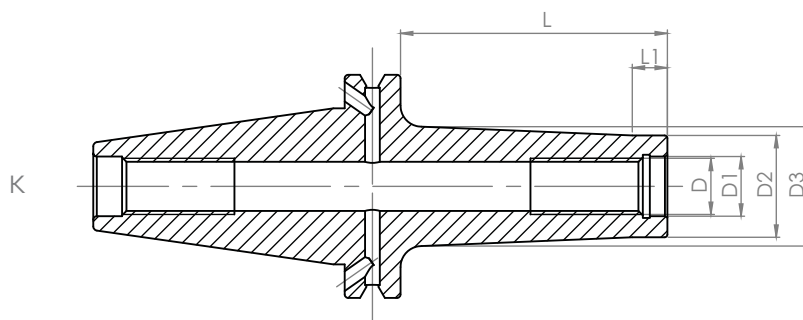
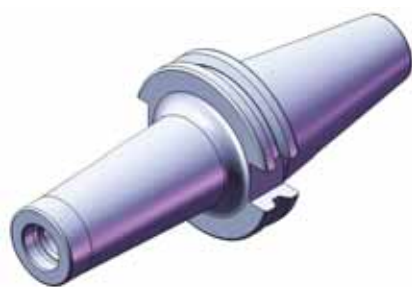


PRE-BALANCED



PORTA TESTINA screw-in endmills

ISO 40 DIN 69871/ADB



ISO 40 DIN 69871/ADB

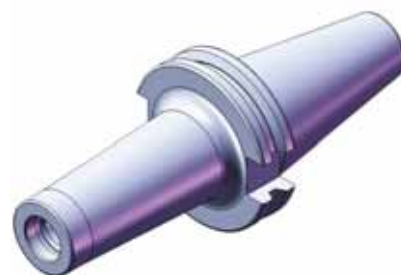
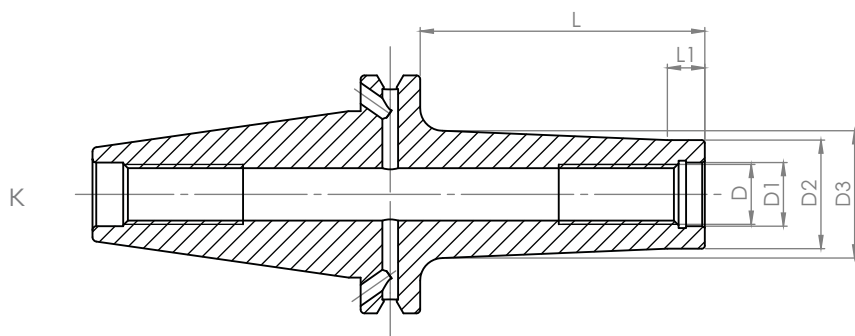
NEW CODE	ex code	K	D	D1	D2	D3	L	L1
TC 40/PT 06L036	75 40/03606	ISO40	M6	6,5	9,7	13	36	10
TC 40/PT 06L050	75 40/05606	ISO40	M6	6,5	9,7	20	56	10
TC 40/PT 06L075	75 40/07606	ISO40	M6	6,5	9,7	23	76	10
TC 40/PT 08L036	75 40/03608	ISO40	M8	8,5	13	15	36	10
TC 40/PT 08L056	75 40/05608	ISO40	M8	8,5	13	23	56	10
TC 40/PT 08L056R	75 40/05608R	ISO40	M8	8,5	13	15	56	10
TC 40/PT 08L076	75 40/07608	ISO40	M8	8,5	13	23	76	10
TC 40/PT 08L076R	75 40/07608R	ISO40	M8	8,5	13	15	76	10
TC 40/PT 08L096	75 40/09608	ISO40	M8	8,5	13	25	96	10
TC 40/PT 08L096R	75 40/09608R	ISO40	M8	8,5	13	15	96	10
TC 40/PT 10L036	75 40/03610	ISO40	M10	10,5	18	19,5	36	10
TC 40/PT 10L056	75 40/05610	ISO40	M10	10,5	18	25	56	10
TC 40/PT 10L056R	75 40/05610R	ISO40	M10	10,5	18	19,5	56	10
TC 40/PT 10L076	75 40/07610	ISO40	M10	10,5	18	28	76	10
TC 40/PT 10L076R	75 40/07610R	ISO40	M10	10,5	18	19,5	76	10
TC 40/PT 10L096	75 40/09610	ISO40	M10	10,5	18	28	96	10
TC 40/PT 10L096R	75 40/09610R	ISO40	M10	10,5	18	19,5	96	10
TC 40/PT 10L126	75 40/12610	ISO40	M10	10,5	18	34	126	10

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PORTA TESTINA
screw-in endmills



ISO 40 DIN 69871/ADB

ISO 40 DIN 69871/ADB

NEW CODE	ex code	K	D	D1	D2	D3	L	L1
TC 40/PT 12L036	75 40/036 12	ISO40	M12	12,5	21	24	36	10
TC 40/PT 12L056	75 40/056 12	ISO40	M12	12,5	21	24	56	10
TC 40/PT 12L076	75 40/076 12	ISO40	M12	12,5	21	31	76	10
TC 40/PT 12L076R	75 40/076 12R	ISO40	M12	12,5	21	24	76	10
TC 40/PT 12L096	75 40/096 12	ISO40	M12	12,5	21	31	96	10
TC 40/PT 12L096R	75 40/096 12R	ISO40	M12	12,5	21	24	96	10
TC 40/PT 12L126	75 40/126 12	ISO40	M12	12,5	21	38	126	10
TC 40/PT 12L156	75 40/156 12	ISO40	M12	12,5	21	42	156	10
TC 40/PT 16L036	75 40/036 16	ISO40	M16	17	29	34	36	10
TC 40/PT 16L036R	75 40/036 16R	ISO40	M16	17	29	31	36	10
TC 40/PT 16L056	75 40/056 16	ISO40	M16	17	29	34	56	10
TC 40/PT 16L056R	75 40/056 16R	ISO40	M16	17	29	31	56	10
TC 40/PT 16L076	75 40/076 16	ISO40	M16	17	29	34	76	10
TC 40/PT 16L076R	75 40/076 16R	ISO40	M16	17	29	31	76	10
TC 40/PT 16L096	75 40/096 16	ISO40	M16	17	29	39	96	10
TC 40/PT 16L096R	75 40/096 16R	ISO40	M16	17	29	31	96	10
TC 40/PT 16L126	75 40/126 16	ISO40	M16	17	29	39	126	10
TC 40/PT 16L126R	75 40/126 16R	ISO40	M16	17	29	31	126	10
TC 40/PT 16L156	75 40/156 16	ISO40	M16	17	29	39	156	10
TC 40/PT 16L176	75 40/176 16	ISO40	M16	17	29	44	176	10
TC 40/PT 16L200	75 40/200 16	ISO40	M16	17	29	44	200	10

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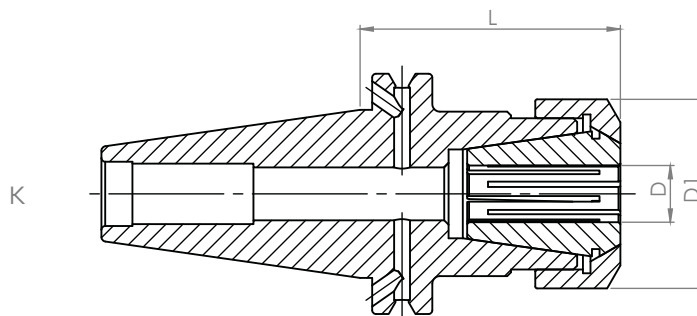


PRE-BALANCED



PORTA PINZA collet chucks

ISO 40 DIN 69871/ADB



ISO 40 DIN 69871/ADB

NEW CODE	ex code	K	D	D1	L	PINZA
TC 40/ER16BL70	8060/40 16 BL 70	ISO 40	1-10	32	70	ER 16
TC 40/ER16BL100	8060/40 16 BL 100	ISO 40	1-10	32	100	ER 16
TC 40/ER16BL130	8060/40 16 BL 130	ISO 40	1-10	32	130	ER 16
TC 40/ER16BL150	8060/40 16 BL 150	ISO 40	1-10	32	150	ER 16
TC 40/ER16BL180	8060/40 16 BL 180	ISO 40	1-10	32	180	ER 16
TC 40 ER16BL200	8060/40 16 BL 200	ISO 40	1-10	32	200	ER 16
TC 40/ER20BL70	8060/40 20 BL 70	ISO 40	1-13	35	70	ER 20
TC 40/ER20BL100	8060/40 20 BL 100	ISO 40	1-13	35	100	ER 20
TC 40/ER20BL130	8060/40 20 BL 130	ISO 40	1-13	35	130	ER 20
TC 40/ER20BL150	8060/40 20 BL 150	ISO 40	1-13	35	150	ER 20
TC 40/ER20BL180	8060/40 20 BL 180	ISO 40	1-13	35	180	ER 20
TC 40/ER20BL200	8060/40 20 BL 200	ISO 40	1-13	35	200	ER 20
TC 40/ER25BL70	8060/40 25 BL 70	ISO 40	2-16	42	70	ER 25
TC 40/ER25BL100	8060/40 25 BL 100	ISO 40	2-16	42	100	ER 25
TC 40/ER25BL130	8060/40 25 BL 130	ISO 40	2-16	42	130	ER 25
TC 40/ER25BL150	8060/40 25 BL 150	ISO 40	2-16	42	150	ER 25
TC 40/ER25BL180	8060/40 25 BL 180	ISO 40	2-16	42	180	ER 25
TC 40/ER25BL200	8060/40 25 BL 200	ISO 40	2-16	42	200	ER 25



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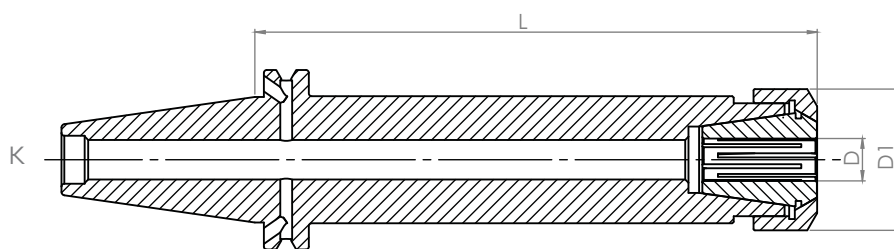


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PORTA PINZA
collet chucks



ISO 40 DIN 69871 / ADB

ISO 40 DIN 69871 / ADB

NEW CODE	ex code	K	D	D1	L	PINZA
TC 40/ER 32 BL 70	8060/40 32 BL 70	ISO 40	2-20	50	70	ER 32
TC 40/ER 32 BL 100	8060/40 32 BL 100	ISO 40	2-20	50	100	ER 32
TC 40/ER 32 BL 130	8060/40 32 BL 130	ISO 40	2-20	50	130	ER 32
TC 40/ER 32 BL 150	8060/40 32 BL 150	ISO 40	2-20	50	150	ER 32
TC 40/ER 32 BL 180	8060/40 32 BL 180	ISO 40	2-20	50	180	ER 32
TC 40/ER 32 BL 200	8060/40 32 BL 200	ISO 40	2-20	50	200	ER 32
TC 40/ER 40 BL 70	8060/40 40 BL 70	ISO 40	3-30	63	70	ER 40
TC 40/ER 40 BL 100	8060/40 40 BL 100	ISO 40	3-30	63	100	ER 40
TC 40/ER 40 BL 130	8060/40 40 BL 130	ISO 40	3-30	63	130	ER 40
TC 40/ER 40 BL 150	8060/40 40 BL 150	ISO 40	3-30	63	150	ER 40
TC 40/ER 40 BL 180	8060/40 40 BL 180	ISO 40	3-30	63	180	ER 40
TC 40/ER 40 BL 200	8060/40 40 BL 200	ISO 40	3-30	63	200	ER 40



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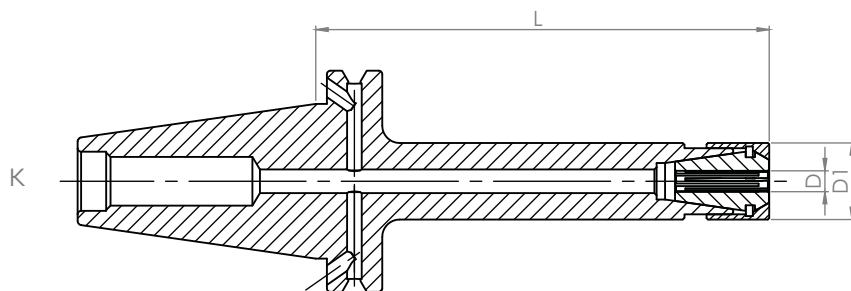


PRE-BALANCED



PORTA PINZA CON GHIERA MINI collet chucks with mini nuts

ISO 40 DIN 69871/ADB



ISO 40 DIN 69871/ADB

NEW CODE	ex code	K	D	D1	L	PINZA
TC 40/ERM 11BL80	8065/40 11 BL 80	ISO 40	1-7	16	80	ER 11
TC 40/ERM 11BL100	8065/40 11 BL 100	ISO 40	1-7	16	100	ER 11
TC 40/ERM 16BL70	8065/40 16 BL 70	ISO 40	1-10	22	70	ER 16
TC 40/ERM 16BL100	8065/40 16 BL 100	ISO 40	1-10	22	100	ER 16
TC 40/ERM 16BL130	8065/40 16 BL 130	ISO 40	1-10	22	130	ER 16
TC 40/ERM 16BL150	8065/40 16 BL 150	ISO 40	1-10	22	150	ER 16
TC 40/ERM 16BL180	8065/40 16 BL 180	ISO 40	1-10	22	180	ER 16
TC 40/ERM 20BL100	8065/40 20 BL 100	ISO 40	1-13	28	100	ER 20
TC 40/ERM 20BL130	8065/40 20 BL 130	ISO 40	1-13	28	130	ER 20
TC 40/ERM 20BL150	8065/40 20 BL 150	ISO 40	1-13	28	150	ER 20
TC 40/ERM 25BL100	8065/40 25 BL 100	ISO 40	2-16	35	100	ER 25
TC 40/ERM 25BL150	8065/40 25 BL 150	ISO 40	2-16	35	150	ER 25



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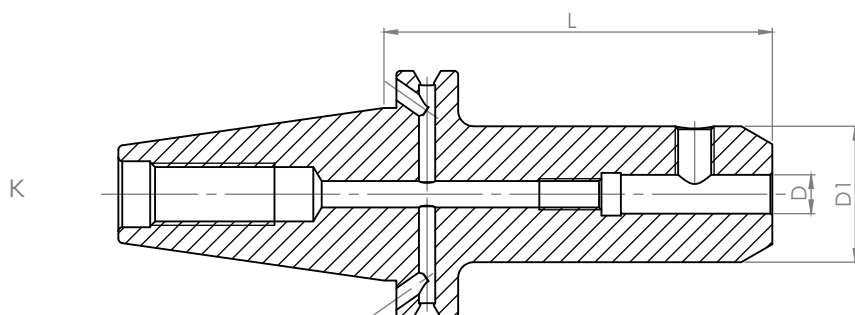


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MANDRINI PORTA FRESE TIPO WELDON end mill holders weldon



ISO 40 DIN 69871/ADB

ISO 40 DIN 69871/ADB

NEW CODE	ex code	K	D	D1	L
TC 40/WE 06 BL 50	9230/40 06 BL 60	ISO 40	6	25	50
TC 40/WE 06 BL 100	9230/40 06 BL 100	ISO 40	6	25	100
TC 40/WE 06 BL 130	9230/40 06 BL 130	ISO 40	6	25	130
TC 40/WE 08 BL 50	9230/40 08 BL 60	ISO 40	8	28	50
TC 40/WE 08 BL 100	9230/40 08 BL 100	ISO 40	8	28	100
TC 40/WE 08 BL 130	9230/40 08 BL 130	ISO 40	8	28	130
TC 40/WE 10 BL 50	9230/40 10 BL 65	ISO 40	10	35	50
TC 40/WE 10 BL 100	9230/40 10 BL 100	ISO 40	10	35	100
TC 40/WE 10 BL 130	9230/40 10 BL 130	ISO 40	10	35	130
TC 40/WE 12 BL 50	9230/40 12 BL 70	ISO 40	12	42	50
TC 40/WE 12 BL 100	9230/40 12 BL 100	ISO 40	12	42	100
TC 40/WE 12 BL 130	9230/40 12 BL 130	ISO 40	12	42	130
TC 40/WE 14 BL 50	9230/40 14 BL 70	ISO 40	14	44	50
TC 40/WE 14 BL 100	9230/40 14 BL 100	ISO 40	14	44	100
TC 40/WE 14 BL 130	9230/40 14 BL 130	ISO 40	14	44	130

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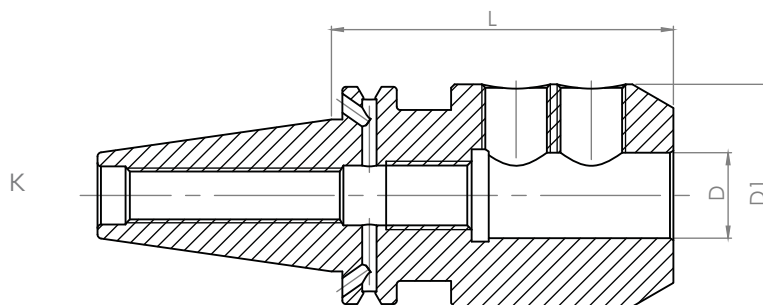
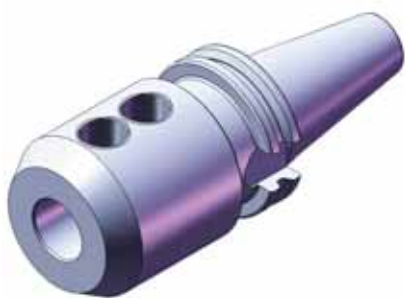


PRE-BALANCED



MANDRINI PORTA FRESE TIPO WELDON end mill holders weldon

ISO 40 DIN 69871/ADB



ISO 40 DIN 69871/ADB

NEW CODE	ex code	K	D	D1	L
TC 40/WE16BL35	92 30/40 16 BL 35	ISO 40	16	44	35
TC 40/WE16BL63	92 30/40 16 BL 70	ISO 40	16	48	63
TC 40/WE16BL100	92 30/40 16 BL 100	ISO 40	16	48	100
TC 40/WE16BL130	92 30/40 16 BL 130	ISO 40	16	48	130
TC 40/WE18BL63	92 30/40 18 BL 70	ISO 40	18	50	63
TC 40/WE18BL100	92 30/40 18 BL 100	ISO 40	18	50	100
TC 40/WE18BL130	92 30/40 18 BL 130	ISO 40	18	50	130
TC 40/WE20BL35	92 30/40 20 BL 35	ISO 40	20	44	35
TC 40/WE20BL63	92 30/40 20 BL 75	ISO 40	20	52	63
TC 40/WE20BL100	92 30/40 20 BL 100	ISO 40	20	52	100
TC 40/WE20BL130	92 30/40 20 BL 130	ISO 40	20	52	130
TC 40/WE25BL35	92 30/40 25 BL 35	ISO 40	25	44	35
TC 40/WE25BL100	92 30/40 25 BL 100	ISO 40	25	63	100
TC 40/WE25BL130	92 30/40 25 BL 130	ISO 40	25	63	130
TC 40/WE32BL70	92 30/40 32 BL 70	ISO 40	32	44	70
TC 40/WE32BL100	92 30/40 32 BL 100	ISO 40	32	63	100
TC 40/WE32BL130	92 30/40 32 BL 130	ISO 40	32	63	160

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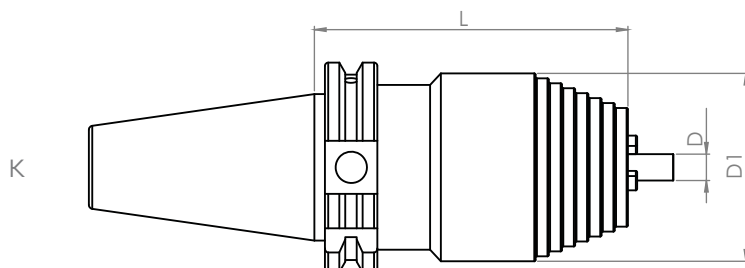


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MANDRINI PORTA PUNTE INTEGRALI drill chuck holders



ISO 40 DIN 69871 / A

ISO 40 DIN 69871/A

NEW CODE	ex code	K	D	D1	L
TC 40/PPI08 L70	NEW!	ISO 40	0,3-8	36	70
TC 40/PPI 13 L90	92 55/40 13 L87	ISO 40	1-13	50	90
TC 40/PPI 16 L95	92 55/40 16 L106	ISO 40	2,5-16	57	95

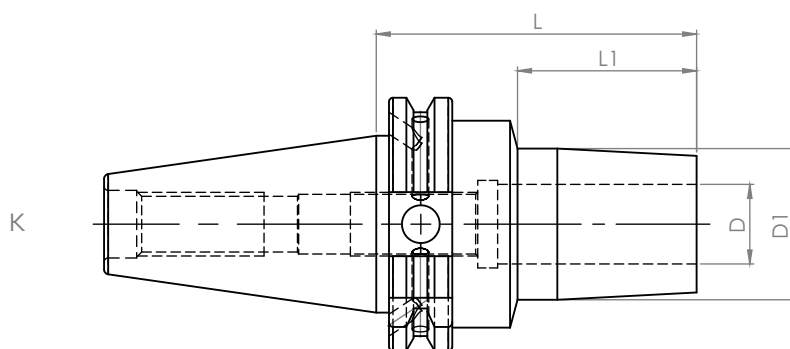


PRE-BALANCED



MANDRINI IDRAULICI hydraulic chuck

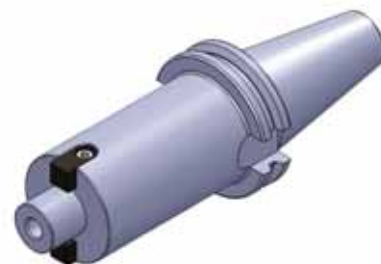
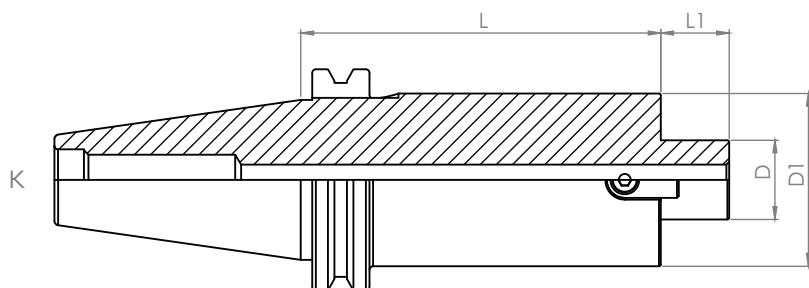
ISO 40 DIN 69871/ADB



ISO 40 DIN 69871/ADB

NEW CODE	ex code	K	D	D1	L	L1
TC 40/HY 06L80	9258/40 06L80	ISO 40	6	26	80	29
TC 40/HY 08L80	9258/40 08L80	ISO 40	8	28	80	30
TC 40/HY 10L80	9258/40 10L80	ISO 40	10	30	80	35
TC 40/HY 12L80	9258/40 12L80	ISO 40	12	32	80	40
TC 40/HY 14L80	9258/40 14L80	ISO 40	14	34	80	40
TC 40/HY 16L80	9258/40 16L90	ISO 40	16	38	80	45
TC 40/HY 18L80	9258/40 18L90	ISO 40	18	40	80	46
TC 40/HY 20L64	9258/40 20L64	ISO 40	20	42	64	46
TC 40/HY 20L80	9258/40 20L80	ISO 40	20	42	80	47
TC 40/HY 25L80	9258/40 25L80	ISO 40	25	55	80	54
TC 40/HY 32L80	9258/40 32L80	ISO 40	32	63	80	48

MANDRINI PORTA FRESE TRASCINAMENTO FISSO shell-end mill holder



ISO 40 DIN 69871/AD

ISO 40 DIN 69871/AD

NEW CODE	ex code	K	D	D1	L	L1
TC 40/PF 16 L44	92 60/40 16 L44	ISO 40	16	38	44	17
TC 40/PF 16 L100	92 61/40 16 L100	ISO 40	16	38	100	17
TC 40/PF 16 L130	92 61/40 16 L130	ISO 40	16	38	130	17
TC 40/PF 16 L160	92 61/40 16 L160	ISO 40	16	38	160	17
TC 40/PF 16 L200	92 61/40 16 L200	ISO 40	16	38	200	17
TC 40/PF 22 L55	92 60/40 22 L55	ISO 40	22	48	55	19
TC 40/PF 22 L100	92 61/40 22 L100	ISO 40	22	48	100	19
TC 40/PF 22 L130	92 61/40 22 L130	ISO 40	22	48	130	19
TC 40/PF 22 L160	92 61/40 22 L160	ISO 40	22	48	160	19
TC 40/PF 22 L200	92 61/40 22 L200	ISO 40	22	48	200	19
TC 40/PF 27 L60	92 60/40 27 L60	ISO 40	27	58	60	21
TC 40/PF 27 L100	92 61/40 27 L100	ISO 40	27	58	100	21
TC 40/PF 27 L130	92 61/40 27 L130	ISO 40	27	58	130	21
TC 40/PF 27 L160	92 61/40 27 L160	ISO 40	27	58	160	21
TC 40/PF 27 L200	92 61/40 27 L200	ISO 40	27	58	200	21
TC 40/PF 32 L60	92 60/40 32 L60	ISO 40	32	63	60	24
TC 40/PF 32 L100	92 61/40 32 L100	ISO 40	32	63	100	24
TC 40/PF 32 L130	92 61/40 32 L130	ISO 40	32	63	130	24
TC 40/PF 32 L160	92 61/40 32 L160	ISO 40	32	63	160	24
TC 40/PF 40 L60	92 60/40 40 L60	ISO 40	40	80	60	27



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PRE-BALANCED

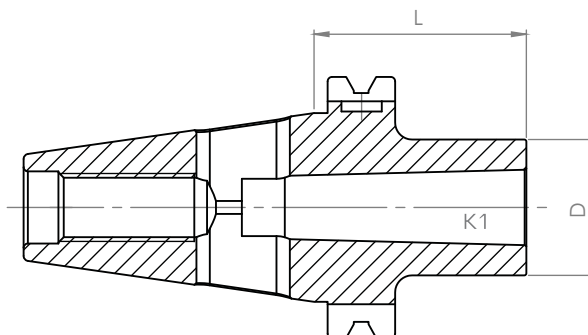


RIDUZIONE CONO MORSE PER PUNTE drills morse taper adapter

ISO 40 DIN 69871/AD



K



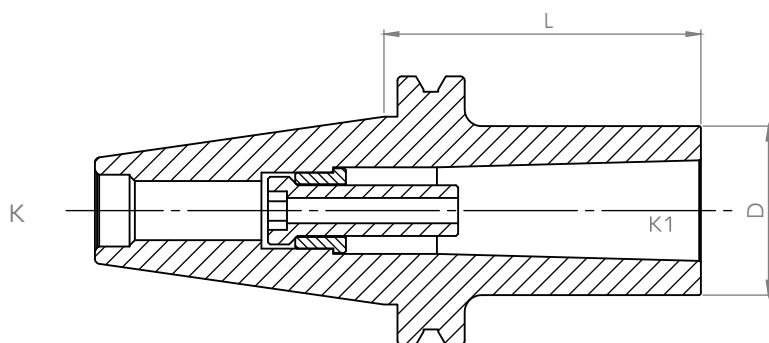
ISO 40 DIN 6971/AD

NEW CODE	ex code	K	K1	D	L
TC 40/CMP 1 L50	9290/40 01 L50	ISO40	CM 1	25	50
TC 40/CMP 1 L120	9290/40 01 L120	ISO40	CM 1	25	120
TC 40/CMP 2 L50	9290/40 02 L50	ISO40	CM 2	32	50
TC 40/CMP 2 L120	9290/40 02 L120	ISO40	CM 2	32	120
TC 40/CMP 3 L70	9290/40 03 L70	ISO40	CM 3	40	70
TC 40/CMP 3 L135	9290/40 03 L135	ISO40	CM 3	40	135
TC 40/CMP 4 L95	9290/40 04 L95	ISO40	CM 4	48	95
TC 40/CMP 4 L135	9290/40 04 L135	ISO40	CM 4	48	135



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RIDUZIONE CONO MORSE PER FRESE end mills morse taper adapter



ISO 40 DIN 69871 AD

ISO 40 DIN 69871/AD

NEW CODE	ex code	K	K1	D	L
TC 40/CMF 1 L50	9291/40 01 L50	ISO40	CM 1	25	50
TC 40/CMF 2 L65	9291/40 02 L65	ISO40	CM 2	32	50
TC 40/CMF 2 L120	9291/40 02 L120	ISO40	CM 2	32	120
TC 40/CMF 2 L170	9291/40 02 L170	ISO40	CM 2	32	170
TC 40/CMF 3 L75	9291/40 03 L75	ISO40	CM 3	40	75
TC 40/CMF 3 L135	9291/40 03 L120	ISO40	CM 3	40	120
TC 40/CMF 4 L100	9291/40 04 L100	ISO40	CM 4	48	100



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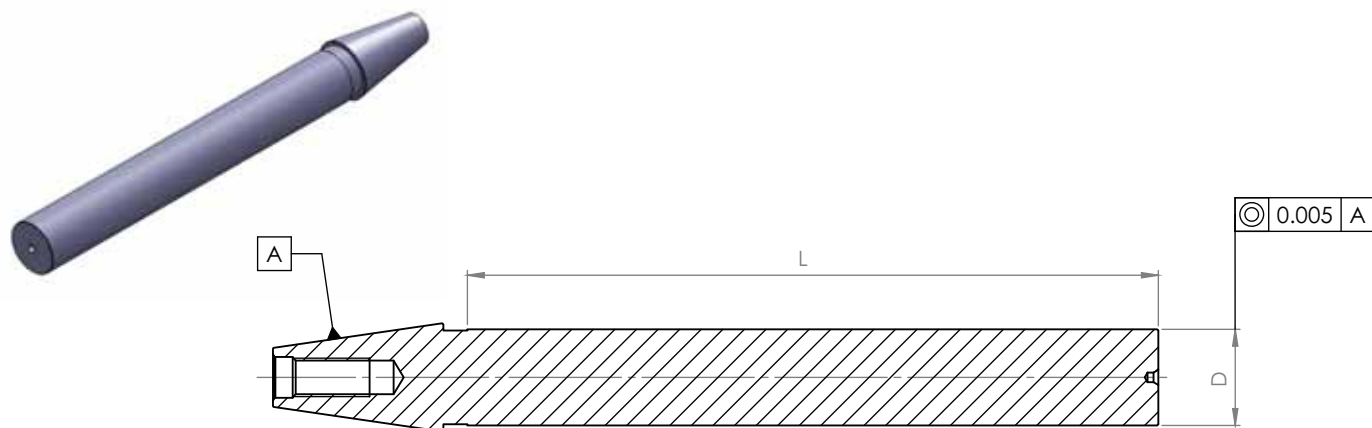


PRE-BALANCED



ALBERI DI CONTROLLO test arbors

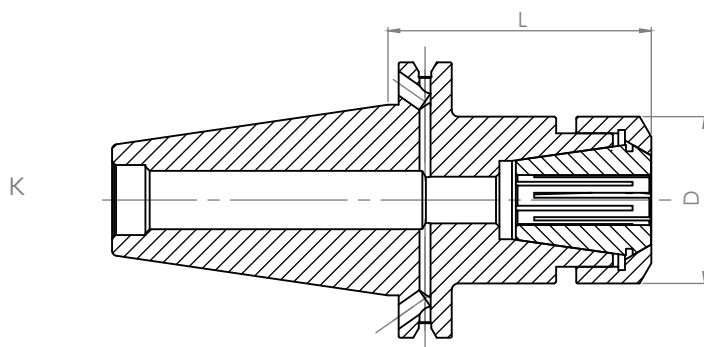
ISO 40 DIN 69871/A



ISO 40 DIN 69871/A

NEW CODE	ex code	K	D	L
TC 40/AC 40 L300	9298/40 40 L 300	ISO 40	40	300

PORTA PINZA
collet chucks



ISO 45 DIN 69871/ADB

ISO 45 DIN 69871/ADB

NEW CODE	ex code	K	D	D1	L	PINZA
TC 45/ER 32 BL 80	8060/4532 BL 80	ISO 45	2-20	50	80	ER 32
TC 45/ER 32 BL 130	8060/4532 BL 130	ISO 45	2-20	50	130	ER 32
TC 45/ER 40 BL 80	8060/4540 BL 80	ISO 45	3-30	63	80	ER 40
TC 45/ER 40 BL 130	8060/4540 BL 130	ISO 45	3-30	63	130	ER 40



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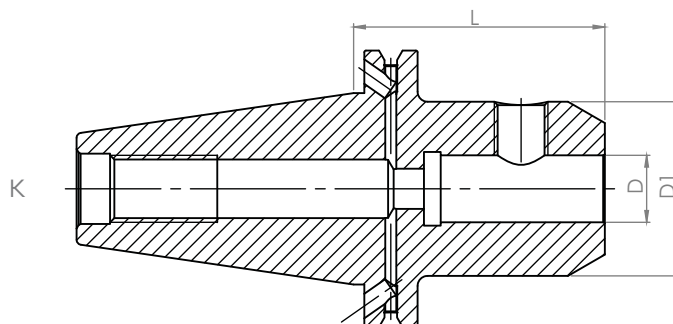


PRE-BALANCED



MANDRINI PORTA FRESE TIPO WELDON end mill holders weldon

ISO 45 DIN 69871/ADB



ISO 45 DIN 69871/ADB

NEW CODE	ex code	K	D	D1	L
TC 45/WE 06 BL 60	9230/45 06 BL 60	ISO 45	6	25	60
TC 45/WE 08 BL 60	9230/45 08 BL 60	ISO 45	8	28	60
TC 45/WE 10 BL 65	9230/45 10 BL 65	ISO 45	10	35	65
TC 45/WE 12 BL 70	9230/45 12 BL 70	ISO 45	12	42	70
TC 45/WE 14 BL 70	9230/45 14 BL 70	ISO 45	14	44	70
TC 45/WE 16 BL 70	9230/45 16 BL 70	ISO 45	16	48	70
TC 45/WE 18 BL 70	9230/45 18 BL 70	ISO 45	18	50	70
TC 45/WE 20 BL 75	9230/45 20 BL 75	ISO 45	20	52	75
TC 45/WE 25 BL 100	9230/45 25 BL 100	ISO 45	25	63	100
TC 45/WE 32 BL 100	9230/45 32 BL 100	ISO 45	32	72	100
TC 45/WE 40 BL 120	9230/45 40 BL 120	ISO 45	40	72	120

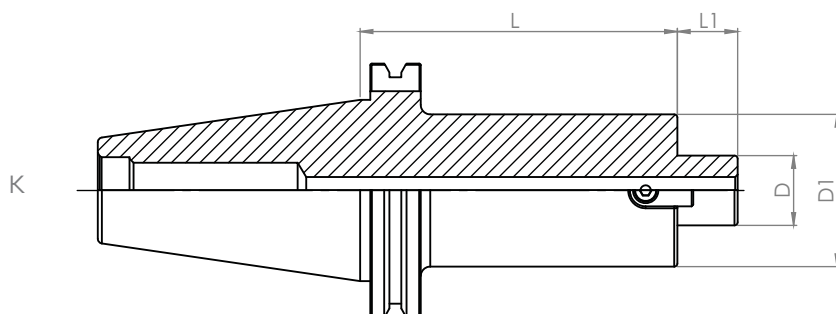


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MANDRINI PORTA FRESE TRASCINAMENTO FISSO shell-end mill holder



ISO 45 DIN 69871/AD

ISO 45 DIN 69871/AD

NEW CODE	ex code	K	D	D1	L	PINZA
TC 45/PF 22 L60	92 60/40 22 L60	ISO 45	22	48	60	19
TC 45/PF 22 L100	92 61/40 22 L100	ISO 45	22	48	100	19
TC 45/PF 27 L65	92 60/40 27 L65	ISO 45	27	58	65	21
TC 45/PF 27 L100	92 61/40 27 L100	ISO 45	27	58	100	21
TC 45/PF 32 L65	92 60/40 32 L65	ISO 45	32	63	65	24
TC 45/PF 32 L100	92 61/40 32 L100	ISO 45	32	63	100	24
TC 45/PF 40 L65	92 60/40 40 L65	ISO 45	40	80	65	27
TC 45/PF 40 L100	92 61/40 40 L100	ISO 45	40	80	100	27



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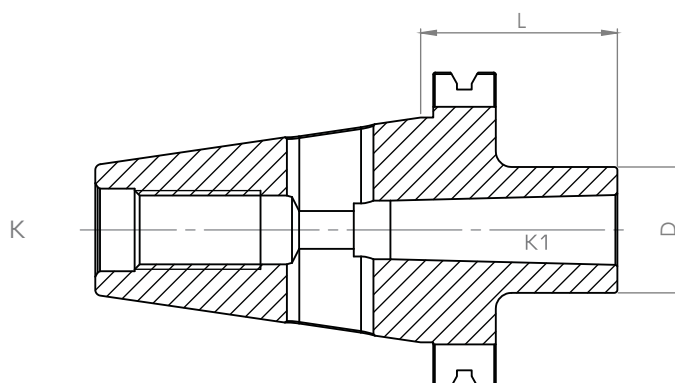
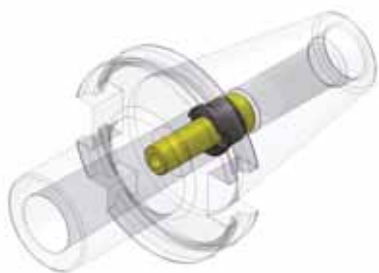


PRE-BALANCED



RIDUZIONE CONO MORSE PER PUNTE drills morse taper adapter

ISO 45 DIN 69871/A



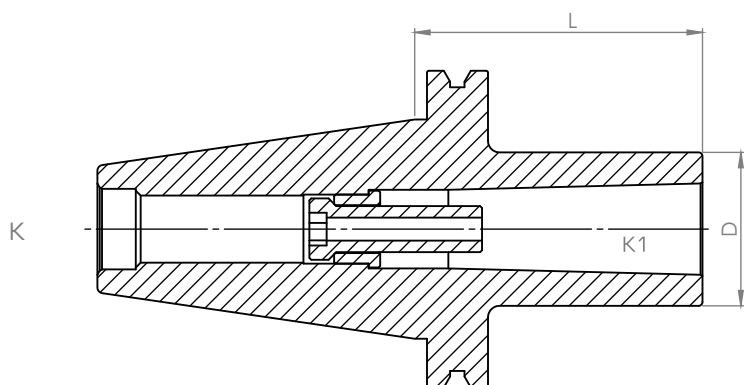
ISO 45 DIN 69871/A

NEW CODE	ex code	K	K1	D	L
TC 45/CMP 2 L50	9290/45 02L50	ISO40	CM 2	32	50
TC 45/CMP 3 L70	9290/45 03L70	ISO40	CM 3	40	70
TC 45/CMP 4 L90	9290/45 04L90	ISO40	CM 4	48	90



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RIDUZIONE CONO MORSE PER FRESE end mills morse taper adapter



ISO 45 DIN 69871/A

ISO 45 DIN 69871/A

NEW CODE	ex code	K	K1	D	L
TC 45/CMF 2 L65	9291/40 02L65	ISO40	CM 2	32	50
TC 45/CMF 3 L75	9291/40 03L75	ISO40	CM 3	40	75
TC 45/CMF 4 L100	9291/40 04L100	ISO40	CM 4	48	100



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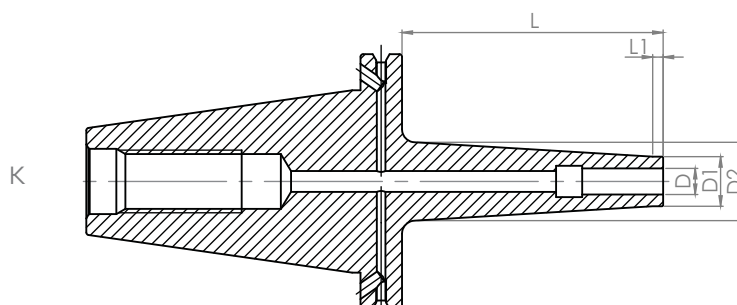


PRE-BALANCED



POR TINA screw-in endmills

ISO 50 DIN 69871/ADB



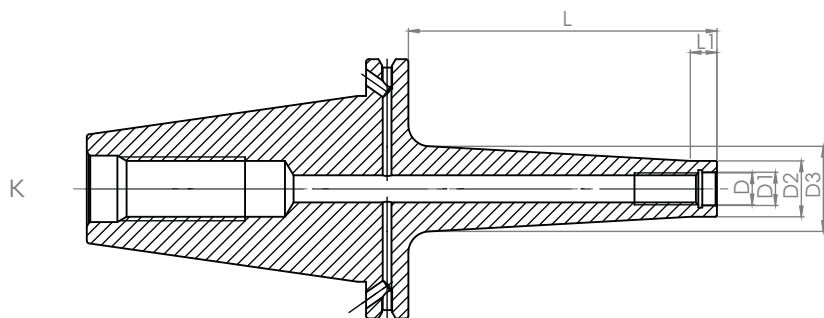
ISO 50 DIN 69871/ADB

NEW CODE	ex code	K	D	D1	D2	L	L1
TC 50/CT 06L075	6550/07506	ISO 50	6	12	20	75	4
TC 50/CT 06L100	6550/10006	ISO 50	6	12	23	100	4
TC 50/CT 06L120	6550/12506	ISO 50	6	12	26	125	4
TC 50/CT 08L075	6550/07508	ISO 50	8	17	25	75	4
TC 50/CT 08L100	6550/10008	ISO 50	8	17	28	100	4
TC 50/CT 08L125	6550/12508	ISO 50	8	17	31	125	4
TC 50/CT 10L075	6550/07510	ISO 50	10	19	27	75	4
TC 50/CT 10L100	6550/10010	ISO 50	10	19	30	100	4
TC 50/CT 10L125	6550/12510	ISO 50	10	19	33	125	4
TC 50/CT 12L075	6550/07512	ISO 50	12	22	30	75	4
TC 50/CT 12L100	6550/10012	ISO 50	12	22	33	100	4
TC 50/CT 12L125	6550/12512	ISO 50	12	22	36	125	4
TC 50/CT 16L075	6550/07516	ISO 50	16	26	34	75	4
TC 50/CT 16L100	6550/10016	ISO 50	16	26	37	100	4
TC 50/CT 16L125	6550/12516	ISO 50	16	26	40	125	4



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PORTA TESTINA
screw-in endmills



ISO 50 DIN 69871/ADB

ISO 50 DIN 69871/ADB

NEW CODE	ex code	K	D	D1	D2	D3	L	L1
TC 50/PT 10L066	7550/066 10	ISO 50	M10	10,5	18	28	66	10
TC 50/PT 10 L096	NEW!	ISO 50	M10	10,5	18	28	96	10
TC 50/PT 10L116	7550/116 10	ISO 50	M10	10,5	18	28	116	10
TC 50/PT 10L166	7550/166 10	ISO 50	M10	10,5	18	32	166	10
TC 50/PT 12L066	7550/066 12	ISO 50	M12	12,5	21	32	66	10
TC 50/PT 12 L096	NEW!	ISO 50	M12	12,5	21	32	96	10
TC 50/PT 12L116	7550/116 12	ISO 50	M12	12,5	21	32	116	10
TC 50/PT 12L166	7550/166 12	ISO 50	M12	12,5	21	36	166	10
TC 50/PT 12L216	7550/216 12	ISO 50	M12	12,5	21	42	216	10
TC 50/PT 16L066	7550/066 16	ISO 50	M16	17	29	36	66	10
TC 50/PT 16 L096	NEW!	ISO 50	M16	17	29	36	96	10
TC 50/PT 16L116	7550/116 16	ISO 50	M16	17	29	40	116	10
TC 50/PT 16L166	7550/166 16	ISO 50	M16	17	29	42	166	10
TC 50/PT 16L216	7550/216 16	ISO 50	M16	17	29	44	216	10



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PRE-BALANCED

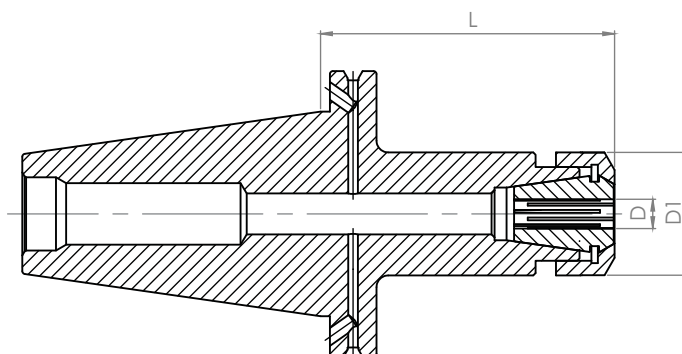


PORTA PINZA collet chucks

ISO 50 DIN 69871/ADB



K



ISO 50 DIN 69871/ADB

NEW CODE	ex code	K	D	D1	L	PINZA
TC 50/ER 16 BL 100	8060/50 16 BL 100	ISO 50	1-10	32	100	ER 16
TC 50/ER 16 BL 130	8060/50 16 BL 130	ISO 50	1-10	32	130	ER 16
TC 50/ER 16 BL 160	8060/50 16 BL 160	ISO 50	1-10	32	160	ER 16
TC 50/ER 16 BL 200	8060/50 16 BL 200	ISO 50	1-10	32	200	ER 16
TC 50/ER 20 BL 100	8060/50 20 BL 100	ISO 50	1-13	35	100	ER 20
TC 50/ER 20 BL 160	8060/50 20 BL 160	ISO 50	1-13	35	160	ER 20
TC 50/ER 25 BL 80	8060/50 25 BL 80	ISO 50	2-16	42	80	ER 25
TC 50/ER 25 BL 100	8060/50 25 BL 100	ISO 50	2-16	42	100	ER 25
TC 50/ER 25 BL 130	8060/50 25 BL 130	ISO 50	2-16	42	130	ER 25
TC 50/ER 25 BL 160	8060/50 25 BL 160	ISO 50	2-16	42	160	ER 25
TC 50/ER 25 BL 200	8060/50 25 BL 200	ISO 50	2-16	42	200	ER 25

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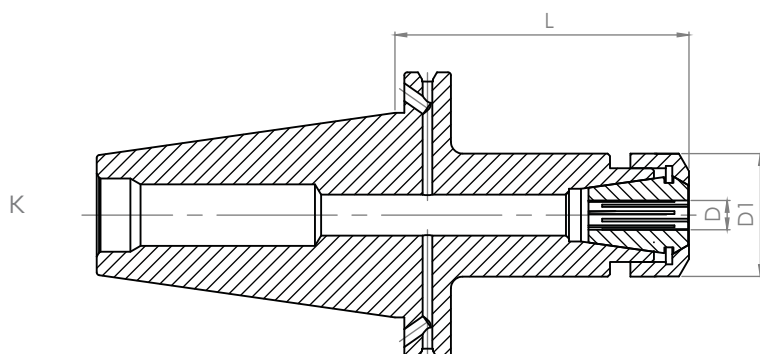


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PORTA PINZA collet chucks



ISO 50 DIN 69871/ADB

ISO 50 DIN 69871/ADB

NEW CODE	ex code	K	D	D1	L	PINZA
TC 50/ER 32 BL 80	8060/50 32 BL 80	ISO 50	2-20	50	80	ER 32
TC 50/ER 32 BL 100	8060/50 32 BL 100	ISO 50	2-20	50	100	ER 32
TC 50/ER 32 BL 130	8060/50 32 BL 130	ISO 50	2-20	50	130	ER 32
TC 50/ER 32 BL 160	8060/50 32 BL 160	ISO 50	2-20	50	160	ER 32
TC 50/ER 32 BL 200	8060/50 32 BL 200	ISO 50	2-20	50	200	ER 32
TC 50/ER 32 BL 250	8060/50 32 BL 250	ISO 50	2-20	50	250	ER 32
TC 50/ER 40 BL 80	8060/50 40 BL 80	ISO 50	3-30	63	80	ER 40
TC 50/ER 40 BL 100	8060/50 40 BL 100	ISO 50	3-30	63	100	ER 40
TC 50/ER 40 BL 130	8060/50 40 BL 130	ISO 50	3-30	63	130	ER 40
TC 50/ER 40 BL 160	8060/50 40 BL 160	ISO 50	3-30	63	160	ER 40
TC 50/ER 40 BL 200	8060/50 40 BL 200	ISO 50	3-30	63	200	ER 40
TC 50/ER 50 BL 100	8060/50 50 BL 100	ISO 50	6-34	78	100	ER 50
TC 50/ER 50 BL 130	8060/50 50 BL 130	ISO 50	6-34	78	130	ER 50
TC 50/ER 50 BL 160	8060/50 50 BL 160	ISO 50	6-34	78	160	ER 50

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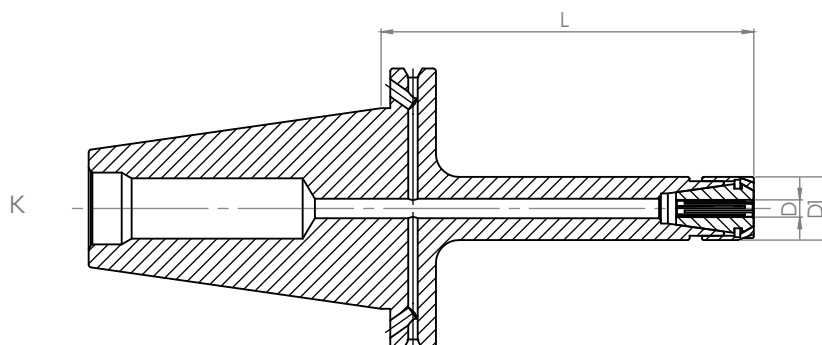


PRE-BALANCED



PORTA PINZA CON GHIERA MINI collet chucks with mini nut

ISO 50 DIN 69871/ADB



ISO 50 DIN 69871/ADB

NEW CODE	ex code	K	D	D1	L	PINZA
TC 50/ERM 16 BL 100	8065/50 16 BL 100	ISO 50	1-10	22	100	ER 16
TC 50/ERM 16 BL 130	8065/50 16 BL 130	ISO 50	1-10	22	130	ER 16
TC 50/ERM 16 BL 160	8065/50 16 BL 160	ISO 50	1-10	22	160	ER 16
TC 50/ERM 16 BL 200	8065/50 16 BL 200	ISO 50	1-10	22	200	ER 16
TC 50/ERM 20 BL 160	8065/50 20 BL 160	ISO 50	1-13	28	160	ER 20
TC 50/ERM 25 BL 160	8065/50 25 BL 160	ISO 50	2-16	35	160	ER 25



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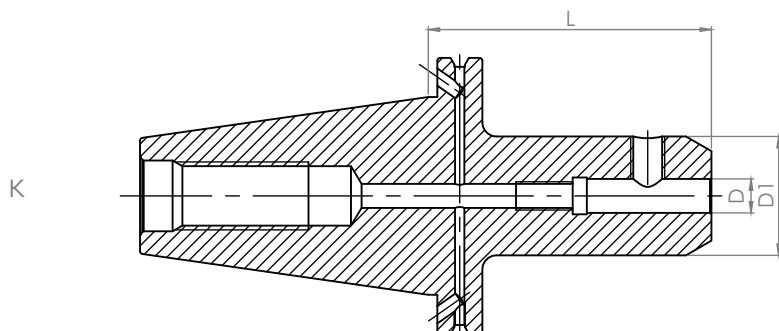


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MANDRINI PORTA FRESE TIPO WELDON end mill holders weldon



ISO 50 DIN 69871/ADB

ISO 50 DIN 69871/ADB

NEW CODE	ex code	K	D	D1	L
TC 50/WE 06 BL 63	9230/50 06 BL 65	ISO 50	6	25	63
TC 50/WE 06 BL 100	9230/50 06 BL 100	ISO 50	6	25	100
TC 50/WE 06 BL 130	9230/50 06 BL 130	ISO 50	6	25	130
TC 50/WE 06 BL 160	9230/50 06 BL 160	ISO 50	6	25	160
TC 50/WE 06 BL 200	9230/50 06 BL 200	ISO 50	6	25	200
TC 50/WE 08 BL 63	9230/50 08 BL 60	ISO 50	8	28	63
TC 50/WE 08 BL 100	9230/50 08 BL 100	ISO 50	8	28	100
TC 50/WE 08 BL 130	9230/50 08 BL 130	ISO 50	8	28	130
TC 50/WE 08 BL 160	9230/50 08 BL 160	ISO 50	8	28	160
TC 50/WE 08 BL 200	9230/50 08 BL 200	ISO 50	8	28	200
TC 50/WE 10 BL 63	9230/50 10 BL 75	ISO 50	10	35	63
TC 50/WE 10 BL 100	9230/50 10 BL 100	ISO 50	10	35	100
TC 50/WE 10 BL 130	9230/50 10 BL 130	ISO 50	10	35	130
TC 50/WE 10 BL 160	9230/50 10 BL 160	ISO 50	10	35	160
TC 50/WE 10 BL 200	9230/50 10 BL 200	ISO 50	10	35	200
TC 50/WE 12 BL 63	9230/50 12 BL 75	ISO 50	12	42	63
TC 50/WE 12 BL 100	9230/50 12 BL 100	ISO 50	12	42	100
TC 50/WE 12 BL 130	9230/50 12 BL 130	ISO 50	12	42	130
TC 50/WE 12 BL 160	9230/50 12 BL 160	ISO 50	12	42	160
TC 50/WE 12 BL 200	9230/50 12 BL 200	ISO 50	12	42	200

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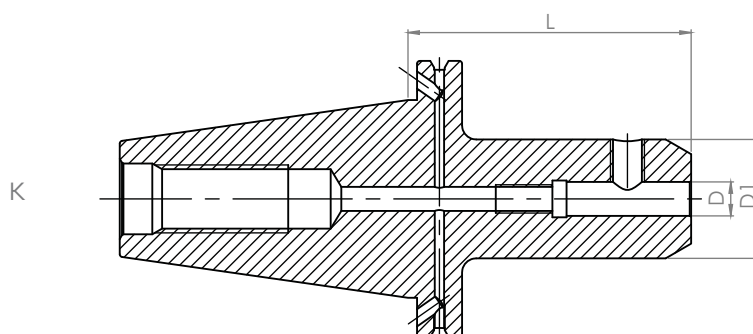


PRE-BALANCED



MANDRINI PORTA FRESE TIPO WELDON end mill holders weldon

ISO 50 DIN 69871/ADB



ISO 50 DIN 69871/ADB

NEW CODE	ex code	K	D	D1	L
TC 50/WE 14 BL 63	9230/50 14 BL 70	ISO 50	14	44	63
TC 50/WE 14 BL 100	9230/50 14 BL 100	ISO 50	14	44	100
TC 50/WE 16 BL 35	9230/50 16 BL 35	ISO 50	16	48	35
TC 50/WE 16 BL 63	9230/50 16 BL 80	ISO 50	16	48	63
TC 50/WE 16 BL 100	9230/50 16 BL 100	ISO 50	16	48	100
TC 50/WE 16 BL 130	9230/50 16 BL 130	ISO 50	16	48	130
TC 50/WE 16 BL 160	9230/50 16 BL 160	ISO 50	16	48	160
TC 50/WE 16 BL 200	9230/50 16 BL 200	ISO 50	16	48	200
TC 50/WE 18 BL 63	9230/50 18 BL 80	ISO 50	18	50	63
TC 50/WE 18 BL 100	9230/50 18 BL 100	ISO 50	18	50	100
TC 50/WE 20 BL 35	9230/50 20 BL 35	ISO 50	20	52	35
TC 50/WE 20 BL 63	9230/50 20 BL 80	ISO 50	20	52	63
TC 50/WE 20 BL 100	9230/50 20 BL 100	ISO 50	20	52	100
TC 50/WE 20 BL 130	9230/50 20 BL 130	ISO 50	20	52	130
TC 50/WE 20 BL 160	9230/50 20 BL 160	ISO 50	20	52	160
TC 50/WE 20 BL 200	9230/50 20 BL 200	ISO 50	20	52	200

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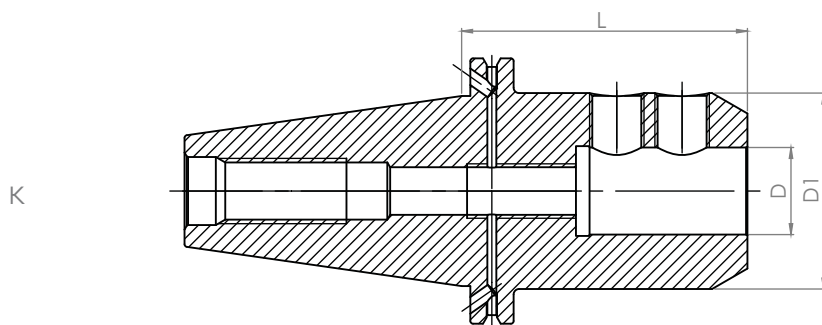


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MANDRINI PORTA FRESE TIPO WELDON end mill holders weldon



ISO 50 DIN 69871/ADB

ISO 50 DIN 69871/ADB

NEW CODE	ex code	K	D	D1	L
TC 50/WE 25 BL 35	9230/50 25 BL 35	ISO 50	25	63	35
TC 50/WE 25 BL 80	NEW!	ISO 50	25	63	80
TC 50/WE 25 BL 100	9230/50 25 BL 100	ISO 50	25	63	100
TC 50/WE 25 BL 130	9230/50 25 BL 130	ISO 50	25	63	130
TC 50/WE 25 BL 160	9230/50 25 BL 160	ISO 50	25	63	160
TC 50/WE 25 BL 200	9230/50 25 BL 200	ISO 50	25	63	200
TC 50/WE 32 BL 35	9230/50 32 BL 35	ISO 50	32	63	35
TC 50/WE 32 BL 100	9230/50 32 BL 100	ISO 50	32	63	100
TC 50/WE 32 BL 130	9230/50 32 BL 130	ISO 50	32	63	130
TC 50/WE 32 BL 160	9230/50 32 BL 160	ISO 50	32	63	160
TC 50/WE 32 BL 200	9230/50 32 BL 200	ISO 50	32	63	200

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PRE-BALANCED

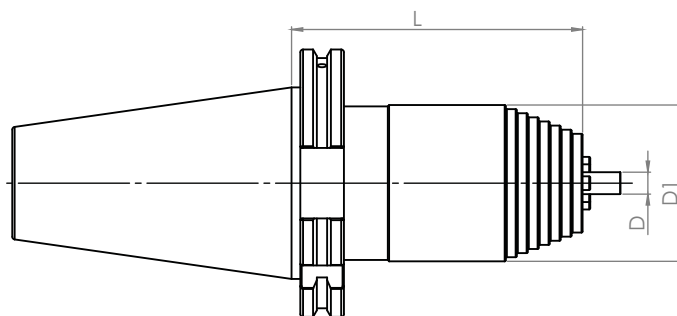


MANDRINI PORTA PUNTE INTEGRALI drill chuck holders

ISO 50 DIN 69871/A



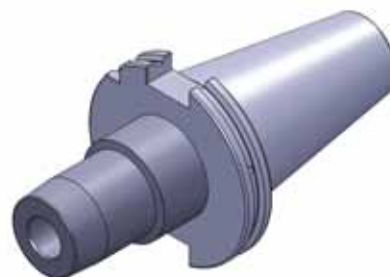
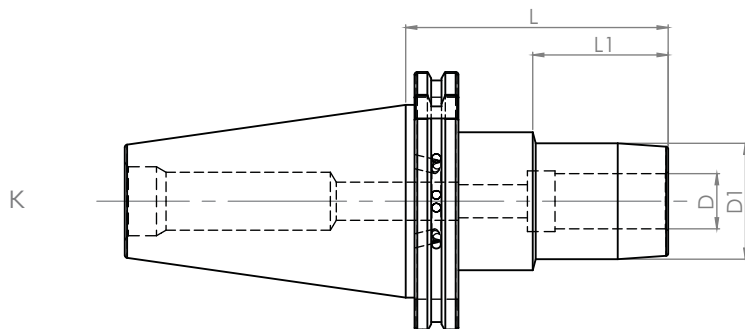
K



ISO 50A DIN 6971 A

NEW CODE	ex code	K	D	D1	L
TC 50/PPI 13 L87	9255/50 13L87	ISO 50	1-13	50	87
TC 50/PPI 16 L90	9255/50 16L90	ISO 50	2,5-16	57	90

MANDRINI IDRAULICI hydraulic chuck



ISO 50 DIN 69871/ADB

ISO 50 DIN 6971/ADB

NEW CODE	ex code	K	D	D1	L	L1
TC 50/HY 06 L80	NEW!	ISO 50	6	26	80	29
TC 50/HY 08 L80		ISO 50	8	28	80	30
TC 50/HY 10 L80		ISO 50	10	30	80	35
TC 50/HY 12 L80		ISO 50	12	32	80	40
TC 50/HY 14 L80	NEW!	ISO 50	14	34	80	40
TC 50/HY 16 L80		ISO 50	16	38	80	45
TC 50/HY 18 L80		ISO 50	18	40	80	46
TC 50/HY 20 L80	9258/40 20 L80	ISO 50	20	42	80	47
TC 50/HY 25 L100	NEW!	ISO 50	25	55	100	48
TC 50/HY 32 L100	9258/40 32 L81	ISO 50	32	63	100	61

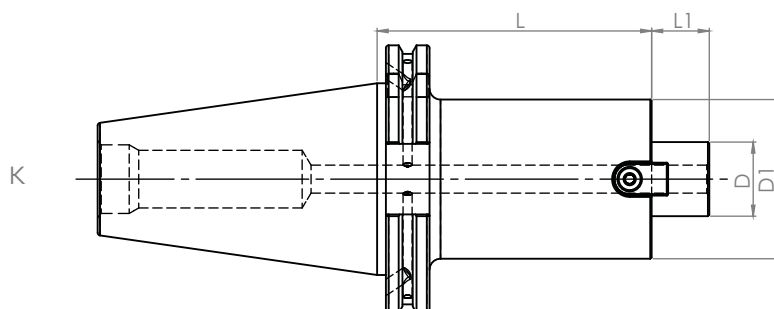
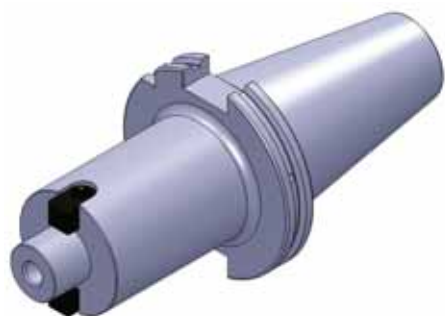


PRE-BALANCED



MANDRINI PORTA FRESE TRASCINAMENTO FISSO shell-end mill holder

ISO 50 DIN 69871/AD



ISO 50 DIN 69871/AD

NEW CODE	ex code	K	D	D1	L	L1
TC 50/PF 22 L 55	9260/50 22L45	ISO 50	22	48	45	19
TC 50/PF 22 L 100	9261/50 22L100	ISO 50	22	48	100	19
TC 50/PF 22 L 130	9261/50 22L130	ISO 50	22	48	130	19
TC 50/PF 22 L 160	9261/50 22L160	ISO 50	22	48	160	19
TC 50/PF 22 L 200	9261/50 22L200	ISO 50	22	48	200	19
TC 50/PF 22 L 250	9261/50 22L250	ISO 50	22	48	250	19
TC 50/PF 22 L 300	9261/50 22L300	ISO 50	22	48	300	19
TC 50/PF 22 L 350	9261/50 22L350	ISO 50	22	48	350	19
TC 50/PF 27 L 65	9260/50 27L65	ISO 50	27	58	65	21
TC 50/PF 27 L 100	9261/50 27L100	ISO 50	27	58	100	21
TC 50/PF 27 L 130	9261/50 27L130	ISO 50	27	58	130	21
TC 50/PF 27 L 160	9261/50 27L160	ISO 50	27	58	160	21
TC 50/PF 27 L 200	9261/50 27L200	ISO 50	27	58	200	21
TC 50/PF 27 L 250	9261/50 27L250	ISO 50	27	58	250	21
TC 50/PF 27 L 300	9261/50 27L300	ISO 50	27	58	300	21
TC 50/PF 27 L 350	9261/50 27L350	ISO 50	27	58	350	21

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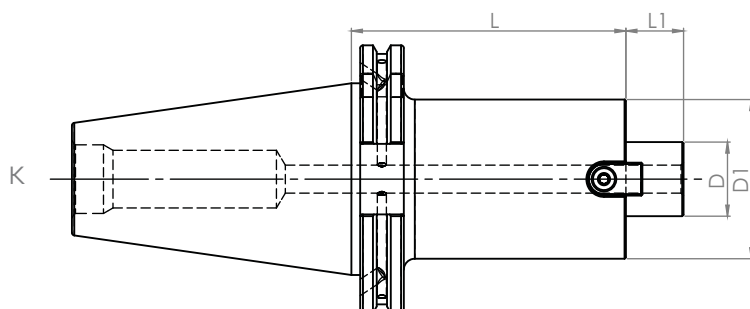


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MANDRINI PORTA FRESE TRASCINAMENTO FISSO shell-end mill holder



ISO 50 DIN 69871/AD

ISO 50 DIN 69871/AD

NEW CODE	ex code	K	D	D1	L	L1
TC 50/PF 32 L65	9260/50 32 L65	ISO 50	32	63	65	24
TC 50/PF 32 L100	9261/50 32 L100	ISO 50	32	63	100	24
TC 50/PF 32 L130	9261/50 32 L130	ISO 50	32	63	130	24
TC 50/PF 32 L160	9261/50 32 L160	ISO 50	32	63	160	24
TC 50/PF 32 L200	9261/50 32 L200	ISO 50	32	63	200	24
TC 50/PF 32 L250	9261/50 32 L250	ISO 50	32	63	250	24
TC 50/PF 32 L300	9261/50 32 L300	ISO 50	32	63	300	24
TC 50/PF 32 L350	9261/50 32 L350	ISO 50	32	63	350	24
TC 50/PF 40 L68	9260/50 40 L68	ISO 50	40	80	68	27
TC 50/PF 40 L100	9261/50 40 L100	ISO 50	40	80	100	27
TC 50/PF 40 L160	9262/50 40 L160	ISO 50	40	80	160	27

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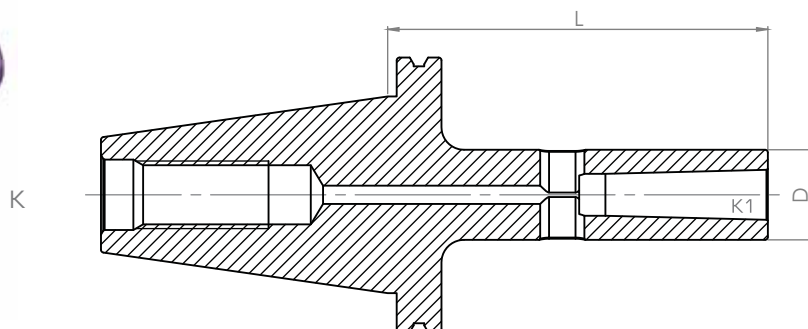


PRE-BALANCED



RIDUZIONE CONO MORSE PER PUNTE drills morse taper adapter

ISO 50 DIN 69871/AD



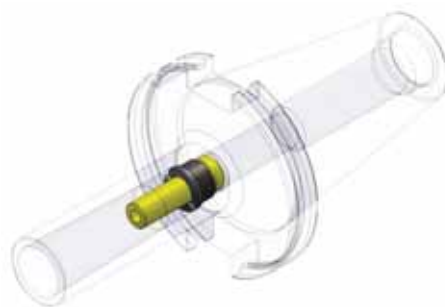
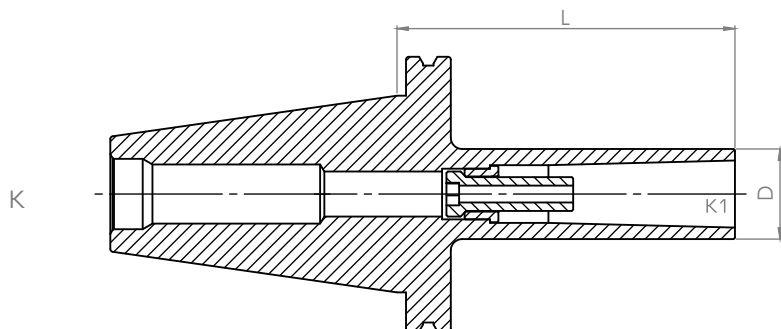
ISO 50 DIN 6971/AD

NEW CODE	ex code	K	K1	D	L
TC 50/CMP 1 L50	9290/50 01 L50	ISO 50	CM 1	25	50
TC 50/CMP 1 L120	9290/50 01 L120	ISO 50	CM 1	25	120
TC 50/CMP 2 L60	9290/50 02 L60	ISO 50	CM 2	32	60
TC 50/CMP 2 L135	9290/50 02 L135	ISO 50	CM 2	32	135
TC 50/CMP 2 L160	9290/50 02 L160	ISO 50	CM 2	32	160
TC 50/CMP 3 L65	9290/50 03 L65	ISO 50	CM 3	40	65
TC 50/CMP 3 L155	9290/50 03 L155	ISO 50	CM 3	40	155
TC 50/CMP 3 L250	9290/50 03 L250	ISO 50	CM 3	40	250
TC 50/CMP 4 L95	9290/50 04 L95	ISO 50	CM 4	48	95
TC 50/CMP 4 L180	9290/50 04 L180	ISO 50	CM 4	48	180
TC 50/CMP 4 L250	9290/50 04 L250	ISO 50	CM 4	48	250
TC 50/CMP 5 L105	9290/50 05 L105	ISO 50	CM 5	63	105
TC 50/CMP 5 L215	9290/50 05 L215	ISO 50	CM 5	63	215



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RIDUZIONE CONO MORSE PER FRESE end mills morse taper adapter



ISO 50 DIN 69871/A

ISO 50A DIN 6971 A

NEW CODE	ex code	K	K1	D	L
TC 50/CMF 1 L60	9291/50 01 L60	ISO 50	CM 1	25	60
TC 50/CMF 2 L60	9291/50 02 L60	ISO 50	CM 2	32	60
TC 50/CMF 2 L120	9291/50 02 L120	ISO 50	CM 2	32	120
TC 50/CMF 2 L170	9291/50 02 L170	ISO 50	CM 2	32	170
TC 50/CMF 3 L75	9291/50 03 L75	ISO 50	CM 3	40	75
TC 50/CMF 3 L120	9291/50 03 L120	ISO 50	CM 3	40	120
TC 50/CMF 3 L170	9291/50 03 L170	ISO 50	CM 3	40	170
TC 50/CMF 4 L100	9291/50 04 L100	ISO 50	CM 4	48	95
TC 50/CMF 5 L130	9291/50 05 L130	ISO 50	CM 5	63	105



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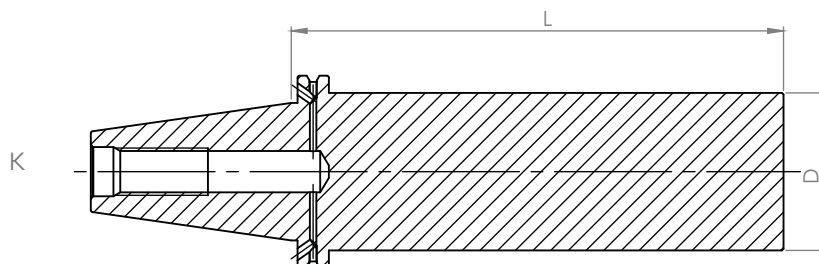


PRE-BALANCED



MANDRINI STELO TENERO blank arbors

ISO 50 DIN 69871/ADB



ISO 50 DIN 69871/ADB

NEW CODE	ex code	K	D	L
TC 50/ST 80L250	9280/50 80L250	ISO 50	95	250
TC 50/ST 80L320	9280/50 80L320	ISO 50	95	320



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ALBERI DI CONTROLLO control shafts



ISO 50 DIN 69871/A

ISO 50 DIN 69871/A

NEW CODE	ex code	K	D	L
TC 50/AC 40 L300	9298/50 40 L300	ISO 50	40	300

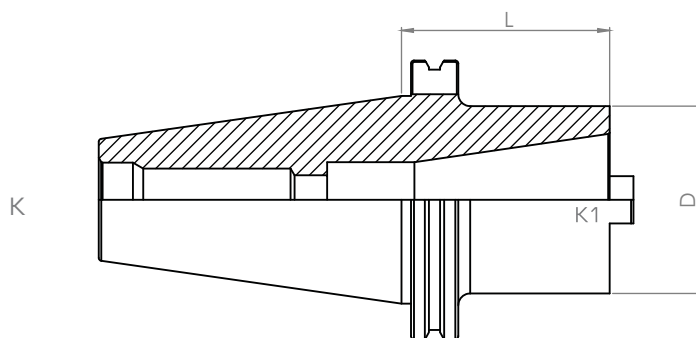
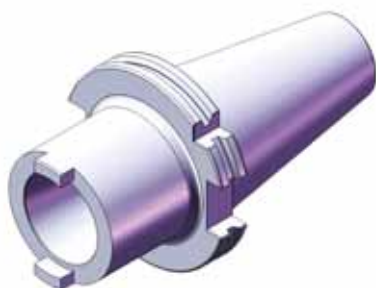


PRE-BALANCED



RIDUZIONE DA CONO ISO A CONO ISO tool holders adapter from iso to iso taper

ISO 50 DIN 69871



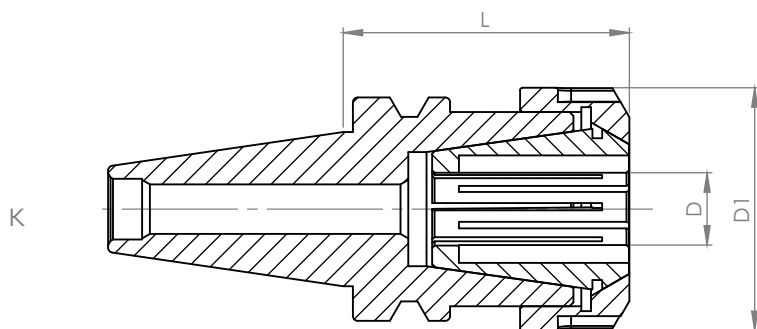
ISO 50 DIN 69871

NEW CODE	ex code	K	K1	D	L
TC 50/ RI 40L70	9295/50 40L70	ISO 50	ISO 40	63	90



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PORTA PINZA ER collet chucks



ISO 30 MAS 403 BT

ISO 30 MAS 403 BT

NEW CODE	ex code	K	D	D1	L	PINZA
BT 30/ER 25 L50	8090/30 25 L50	ISO30	1-16	42	50	ER25
BT 30/ER 25 L90	8090/30 25 L90	ISO30	1-16	42	90	ER25
BT 30/ER 32 L60	8090/30 32 L60	ISO30	2-20	50	60	ER32
BT 30/ER 32 L90	8090/30 32 L90	ISO30	2-20	50	90	ER32



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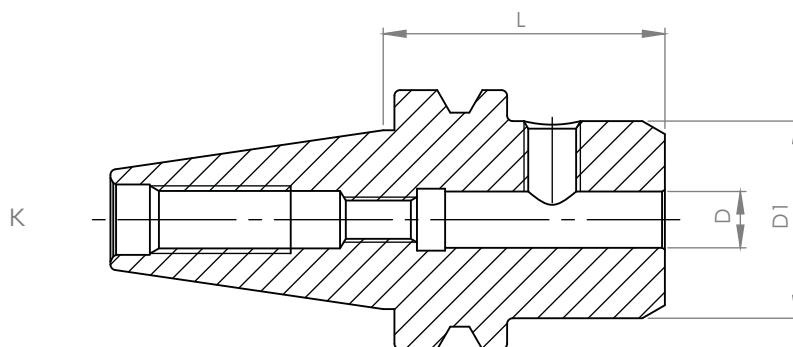


PRE-BALANCED



MANDRINI PORTA FRESE TIPO WELDON end mill holders weldon

ISO 30 MAS 403 BT/AD



ISO 30 MAS 403 BT/AD

NEW CODE	ex code	K	D	D1	L
BT 30 / WE 06L50	93 30 / 30 06L 50	ISO 30	6	25	50
BT 30 / WE 08L50	93 30 / 30 08L 50	ISO 30	8	28	50
BT 30 / WE 10L50	93 30 / 30 10L 50	ISO 30	10	35	50
BT 30 / WE 12L50	93 30 / 30 12L 50	ISO 30	12	42	50
BT 30 / WE 16L63	93 30 / 30 16L 63	ISO 30	16	48	63
BT 30 / WE 20L70	93 30 / 30 20L 70	ISO 30	20	52	70

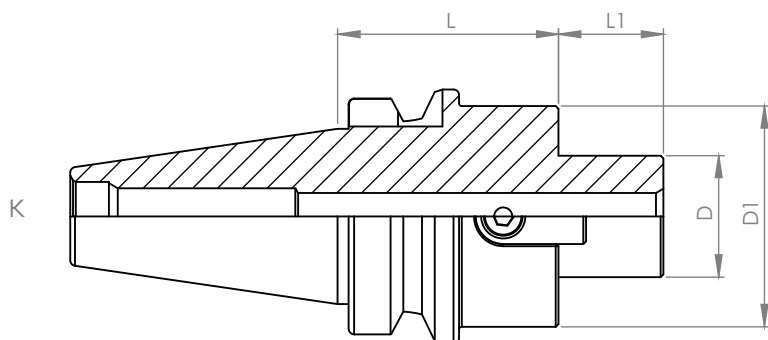


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MANDRINI PORTA FRESE TRASCINAMENTO FISSO shell-end mill holder



ISO 30 MAS 403 BT/A

ISO 30 MAS 403 BT/A

NEW CODE	ex code	K	D	D1	L
BT30/PF 16L35	9360/30 16L35	ISO 30	16	38	35
BT30/PF 22L35	9360/30 22L35	ISO 30	22	48	34
BT30/PF 27L35	9360/30 27L35	ISO 30	27	58	34



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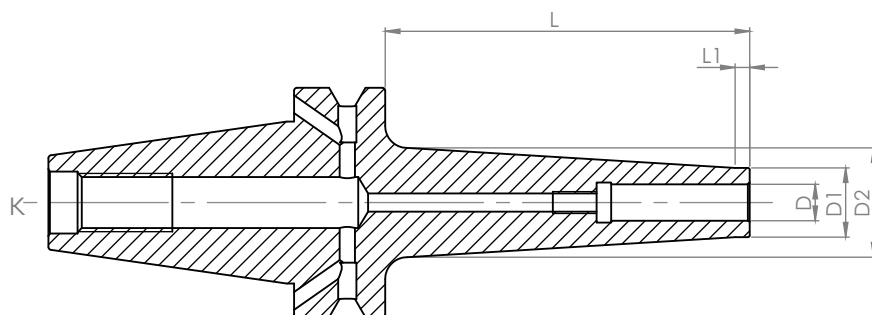
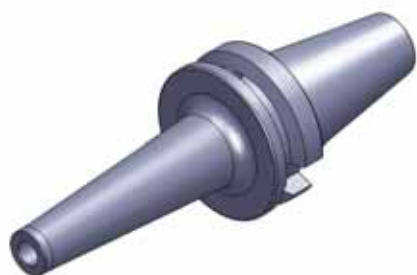


PRE-BALANCED



CALETTAMENTO A CALDO heat shrinking

ISO 40 MAS 403 BT/ADB



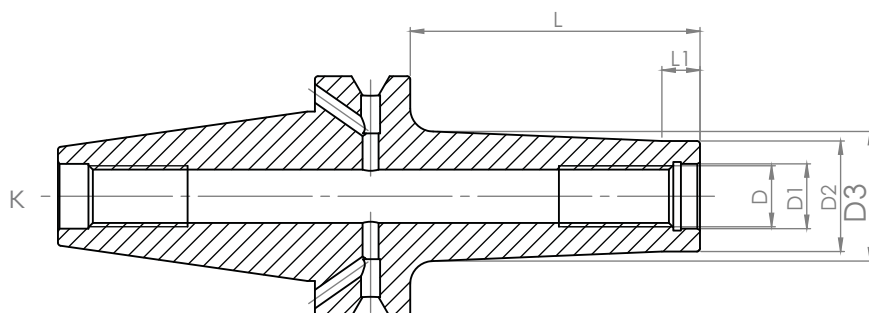
ISO 40 MAS 403 BT/ADB

NEW CODE	ex code	K	D	D1	D2	L	L1
BT40/CT 04L050	6640/050 04	ISO40	4	10	15	50	4
BT40/CT 04L075	6640/075 04	ISO40	4	10	17	75	4
BT40/CT 06L050	6640/050 06	ISO40	6	12	17	50	4
BT40/CT 06L075	6640/075 06	ISO40	6	12	20	75	4
BT40/CT 06L100	6640/100 06	ISO40	6	12	23	100	4
BT40/CT 06L150	6640/150 06	ISO40	6	12	28	150	4
BT40/CT 08L050	6640/050 08	ISO40	8	17	22	50	4
BT40/CT 08L075	6640/075 08	ISO40	8	17	25	75	4
BT40/CT 08L100	6640/100 08	ISO40	8	17	28	100	4
BT40/CT 08L150	6640/150 08	ISO40	8	17	32	150	4
BT40/CT 10L050	6640/050 10	ISO40	10	19	24	50	4
BT40/CT 10L075	6640/075 10	ISO40	10	19	27	75	4
BT40/CT 10L100	6640/100 10	ISO40	10	19	30	100	4
BT40/CT 10L150	6640/150 10	ISO40	10	19	35	150	4
BT40/CT 12L050	6640/050 12	ISO40	12	22	27	50	4
BT40/CT 12L075	6640/075 12	ISO40	12	22	30	75	4
BT40/CT 12L100	6640/100 12	ISO40	12	22	33	100	4
BT40/CT 12L150	6640/150 12	ISO40	12	22	38	150	4
BT40/CT 16L050	6640/050 16	ISO40	16	26	31	50	4
BT40/CT 16L075	6640/075 16	ISO40	16	26	34	75	4
BT40/CT 16L100	6640/100 16	ISO40	16	26	37	100	4



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PORTA TESTINA
screw-in endmills



ISO 40 MAS 403 BT/ADB

ISO 40 MAS 403 BT/ADB

NEW CODE	ex code	K	D	D1	D2	D3	L	L1
BT40/PT 06L036	76 40 / 036 06	ISO40	M6	6,5	9,7	13	36	10
BT40/PT 06L050	76 40 / 056 06	ISO40	M6	6,5	9,7	20	56	10
BT40/PT 06L075	76 40 / 076 06	ISO40	M6	6,5	9,7	23	76	10
BT40/PT 08L036	76 40 / 036 08	ISO40	M8	8,5	13	15	36	10
BT40/PT 08L056	76 40 / 056 08	ISO40	M8	8,5	13	23	56	10
BT40/PT 08L056R	76 40 / 056 08R	ISO40	M8	8,5	13	15	56	10
BT40/PT 08L076	76 40 / 076 08	ISO40	M8	8,5	13	23	76	10
BT40/PT 08L076R	76 40 / 076 08R	ISO40	M8	8,5	13	15	76	10
BT40/PT 08L096	76 40 / 096 08	ISO40	M8	8,5	13	25	96	10
BT40/PT 08L096R	76 40 / 096 08R	ISO40	M8	8,5	13	15	96	10
BT40/PT 10L036	76 40 / 036 10	ISO40	M10	10,5	18	19,5	36	10
BT40/PT 10L056	76 40 / 056 10	ISO40	M10	10,5	18	25	56	10
BT40/PT 10L056R	76 40 / 056 10R	ISO40	M10	10,5	18	19,5	56	10
BT40/PT 10L076	76 40 / 076 10	ISO40	M10	10,5	18	28	76	10
BT40/PT 10L076R	76 40 / 076 10R	ISO40	M10	10,5	18	19,5	76	10
BT40/PT 10L096	76 40 / 096 10	ISO40	M10	10,5	18	28	96	10
BT40/PT 10L096R	76 40 / 096 10R	ISO40	M10	10,5	18	19,5	96	10

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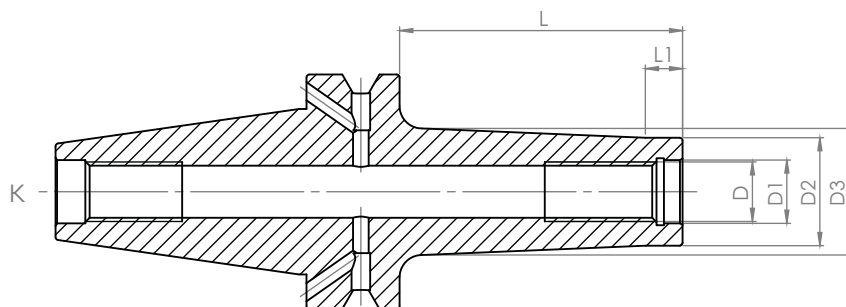


PRE-BALANCED



PORTA TESTINA screw-in endmills

ISO 40 MAS 403 BT/ADB



ISO 40 MAS403 BT/ADB

NEW CODE	ex code	K	D	D1	D2	D3	L	L1
BT40/PT 12L036	7640/036 12	ISO40	M12	12,5	21	24	36	10
BT40/PT 12L056	7640/056 12	ISO40	M12	12,5	21	24	56	10
BT40/PT 12L076	7640/076 12	ISO40	M12	12,5	21	31	76	10
BT40/PT 12L076R	7640/076 12R	ISO40	M12	12,5	21	24	76	10
BT40/PT 12L096	7640/096 12	ISO40	M12	12,5	21	31	96	10
BT40/PT 12L096R	7640/096 12R	ISO40	M12	12,5	21	24	96	10
BT40/PT 16L036	7640/036 16	ISO40	M16	17	29	34	36	10
BT40/PT 16L036R	7640/036 16R	ISO40	M16	17	29	31	36	10
BT40/PT 16L056	7640/056 16	ISO40	M16	17	29	34	56	10
BT40/PT 16L056R	7640/056 16R	ISO40	M16	17	29	31	56	10
BT40/PT 16L076	7640/076 16	ISO40	M16	17	29	34	76	10
BT40/PT 16L076R	7640/076 16R	ISO40	M16	17	29	31	76	10
BT40/PT 16L096	7640/096 16	ISO40	M16	17	29	39	96	10
BT40/PT 16L096R	7640/096 16R	ISO40	M16	17	29	31	96	10
BT40/PT 16L126	7640/126 16	ISO40	M16	17	29	39	126	10
BT40/PT 16L126R	7640/126 16R	ISO40	M16	17	29	31	126	10

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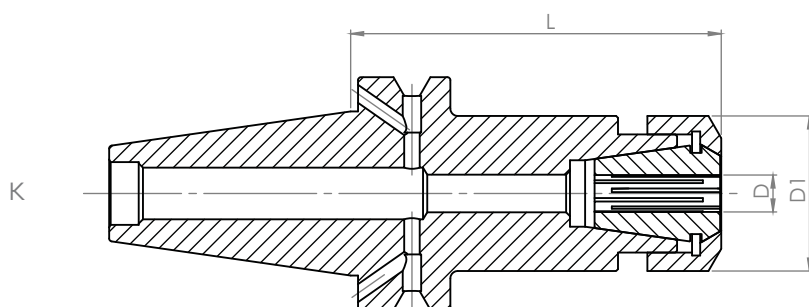


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PORTA PINZA ER collet chucks



ISO 40 MAS 403 BT/ADB

ISO 40 MAS 403 BT/ADB

NEW CODE	ex code	K	D	D1	L	PINZA
BT 40 / ER 16 BL 75	8090 / 40 16 BL 75	ISO 40	1-10	32	75	ER 16
BT 40 / ER 16 BL 100	8090 / 40 16 BL 100	ISO 40	1-10	32	100	ER 16
BT 40 / ER 16 BL 130	8090 / 40 16 BL 130	ISO 40	1-10	32	130	ER 16
BT 40 / ER 16 BL 150	8090 / 40 16 BL 150	ISO 40	1-10	32	150	ER 16
BT 40 / ER 16 BL 180	8090 / 40 16 BL 180	ISO 40	1-10	32	180	ER 16
BT 40 / ER 16 BL 200	8090 / 40 16 BL 200	ISO 40	1-10	32	200	ER 16
BT 40 / ER 20 BL 75	8090 / 40 20 BL 75	ISO 40	1-13	35	75	ER 20
BT 40 / ER 20 BL 100	8090 / 40 20 BL 100	ISO 40	1-13	35	100	ER 20
BT 40 / ER 20 BL 130	8090 / 40 20 BL 130	ISO 40	1-13	35	130	ER 20
BT 40 / ER 20 BL 150	8090 / 40 20 BL 150	ISO 40	1-13	35	150	ER 20
BT 40 / ER 20 BL 180	8090 / 40 20 BL 180	ISO 40	1-13	35	180	ER 20
BT 40 / ER 20 BL 200	8090 / 40 20 BL 200	ISO 40	1-13	35	200	ER 20
BT 40 / ER 25 BL 75	8090 / 40 25 BL 75	ISO 40	2-16	42	75	ER 25
BT 40 / ER 25 BL 100	8090 / 40 25 BL 100	ISO 40	2-16	42	100	ER 25
BT 40 / ER 25 BL 130	8090 / 40 25 BL 130	ISO 40	2-16	42	130	ER 25
BT 40 / ER 25 BL 150	8090 / 40 25 BL 150	ISO 40	2-16	42	150	ER 25
BT 40 / ER 25 BL 180	8090 / 40 25 BL 180	ISO 40	2-16	42	180	ER 25
BT 40 / ER 25 BL 200	8090 / 40 25 BL 200	ISO 40	2-16	42	200	ER 25



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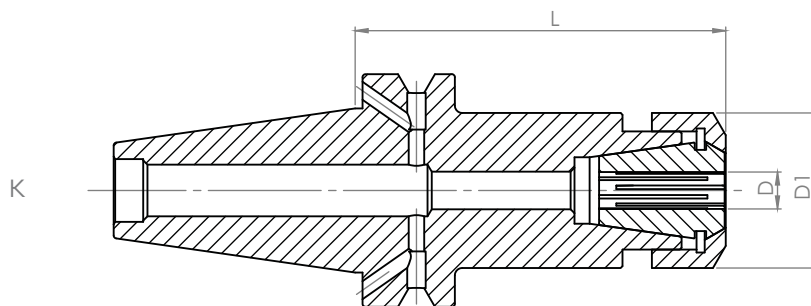


PRE-BALANCED



PORTA PINZA ER collet chucks

ISO 40 MAS 403 BT/ADB



ISO 40 MAS 403 BT/ADB

NEW CODE	ex code	K	D	D1	L	PINZA
BT40/ER 32 BL 75	8090/40 32 BL 75	ISO 40	2-20	50	75	ER 32
BT40/ER 32 BL 100	8090/40 32 BL 100	ISO 40	2-20	50	100	ER 32
BT40/ER 32 BL 130	8090/40 32 BL 130	ISO 40	2-20	50	130	ER 32
BT40/ER 32 BL 150	8090/40 32 BL 150	ISO 40	2-20	50	150	ER 32
BT40/ER 32 BL 180	8090/40 32 BL 180	ISO 40	2-20	50	180	ER 32
BT40/ER 32 BL 200	8090/40 32 BL 200	ISO 40	2-20	50	200	ER 32
BT40/ER 40 BL 80	8090/40 40 BL 80	ISO 40	3-30	63	80	ER 40
BT40/ER 40 BL 100	8090/40 40 BL 100	ISO 40	3-30	63	100	ER 40
BT40/ER 40 BL 130	8090/40 40 BL 130	ISO 40	3-30	63	130	ER 40
BT40/ER 40 BL 150	8090/40 40 BL 150	ISO 40	3-30	63	150	ER 40
BT40/ER 40 BL 180	8090/40 40 BL 180	ISO 40	3-30	63	180	ER 40
BT40/ER 40 BL 200	8090/40 40 BL 200	ISO 40	3-30	63	200	ER 40



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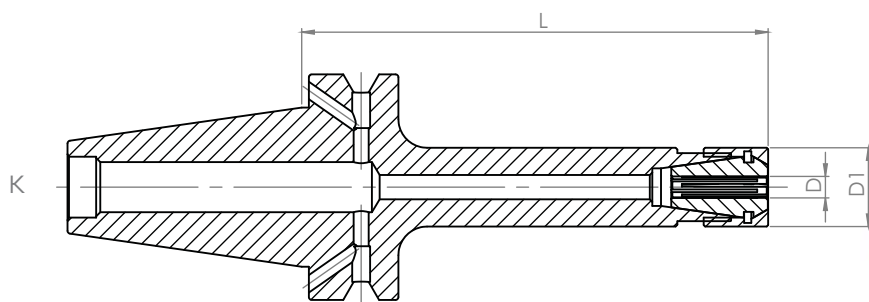


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PORTA PINZA MINI collet chucks mini type



ISO 40 MAS 403 BT/ADB

ISO 40 MAS 403 BT/ADB

NEW CODE	ex code	K	D	D1	L	PINZA
BT40/ERM 16 BL 70	8095/40 16 BL 70	ISO 40	1-10	22	70	ER 16
BT40/ERM 16 BL 100	8095/40 16 BL 100	ISO 40	1-10	22	100	ER 16
BT40/ERM 16 BL 130	8095/40 16 BL 130	ISO 40	1-10	22	130	ER 16
BT40/ERM 16 BL 150	8095/40 16 BL 150	ISO 40	1-10	22	150	ER 16
BT40/ERM 16 BL 180	8095/40 16 BL 180	ISO 40	1-10	22	180	ER 16
BT40/ERM 20 BL 100	8095/40 20 BL 100	ISO 40	1-13	28	100	ER 20
BT40/ERM 20 BL 130	8095/40 20 BL 130	ISO 40	1-13	28	130	ER 20
BT40/ERM 20 BL 150	8095/40 20 BL 150	ISO 40	1-13	28	150	ER 20
BT40/ERM 20 BL 150	8095/40 20 BL 150	ISO 40	1-10	22	150	ER 20
BT40/ERM 20 BL 180	8095/40 20 BL 180	ISO 40	1-10	22	180	ER 20



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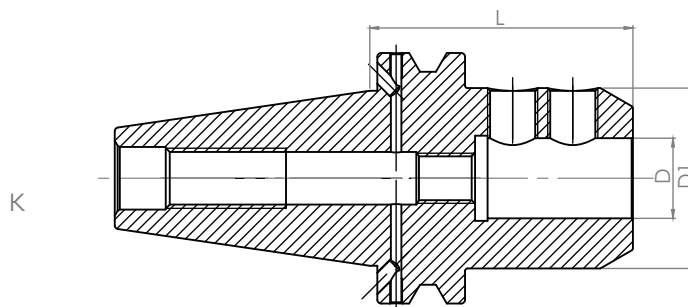


PRE-BALANCED



MANDRINI PORTA FRESE TIPO WELDON end mill holders weldon

ISO 40 MAS 403 BT/ADB



ISO 40 MAS 403 BT/ADB

NEW CODE	ex code	K	D	D1	L
BT40/WE 06 BL 60	9330/40 06 BL 60	ISO 40	6	25	60
BT40/WE 06 BL 100	9330/40 06 BL 100	ISO 40	6	25	100
BT40/WE 06 BL 130	9330/40 06 BL 130	ISO 40	6	25	130
BT40/WE 08 BL 60	9330/40 08 BL 60	ISO 40	8	28	60
BT40/WE 08 BL 100	9330/40 08 BL 100	ISO 40	8	28	100
BT40/WE 08 BL 130	9330/40 08 BL 130	ISO 40	8	28	130
BT40/WE 10 BL 65	9330/40 10 BL 65	ISO 40	10	35	65
BT40/WE 10 BL 100	9330/40 10 BL 100	ISO 40	10	35	100
BT40/WE 10 BL 130	9330/40 10 BL 130	ISO 40	10	35	130
BT40/WE 12 BL 70	9330/40 12 BL 70	ISO 40	12	42	70
BT40/WE 12 BL 100	9330/40 12 BL 100	ISO 40	12	42	100
BT40/WE 12 BL 130	9330/40 12 BL 130	ISO 40	12	42	130
BT40/WE 14 BL 70	9330/40 14 BL 70	ISO 40	14	44	70
BT40/WE 14 BL 100	9330/40 14 BL 100	ISO 40	14	44	100
BT40/WE 14 BL 130	9330/40 14 BL 130	ISO 40	14	44	130
BT40/WE 16 BL 35	9330/40 16 BL 35	ISO 40	16	44	35
BT40/WE 16 BL 70	9330/40 16 BL 70	ISO 40	16	48	70
BT40/WE 16 BL 100	9330/40 16 BL 100	ISO 40	16	48	100
BT40/WE 16 BL 130	9330/40 16 BL 130	ISO 40	16	48	130

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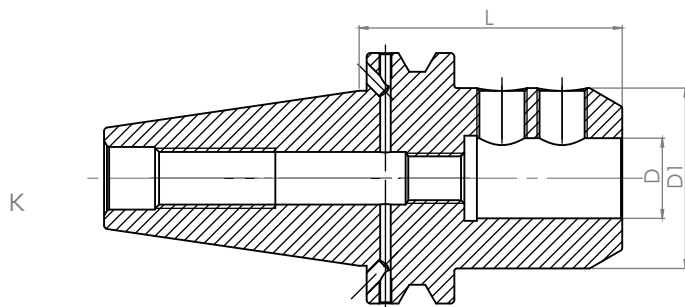


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MANDRINI PORTA FRESE TIPO WELDON end mill holders weldon



ISO 40 MAS 403 BT/ADB

ISO 40 MAS 403 BT/ADB

NEW CODE	ex code	K	D	D1	L
BT40/WE 18 BL 70	9330/40 18BL 70	ISO 40	18	50	70
BT40/WE 18 BL 100	9330/40 18BL 100	ISO 40	18	50	100
BT40/WE 18 BL 130	9330/40 18BL 130	ISO 40	18	50	130
BT40/WE 20 BL 35	9330/40 20BL 35	ISO 40	20	44	35
BT40/WE 20 BL 75	9330/40 20BL 75	ISO 40	20	52	75
BT40/WE 20 BL 100	9330/40 20BL 100	ISO 40	20	52	100
BT40/WE 20 BL 130	9330/40 20BL 130	ISO 40	20	52	130
BT40/WE 25 BL 35	9330/40 25BL 35	ISO 40	25	44	35
BT40/WE 25 BL 100	9330/40 25BL 100	ISO 40	25	63	100
BT40/WE 25 BL 130	9330/40 25 BL 130	ISO 40	25	63	130
BT40/WE 32 BL 70	9330/40 32 BL 70	ISO 40	32	44	70
BT40/WE 32 BL 100	9330/40 32 BL 100	ISO 40	32	63	100
BT40/WE 32 BL 130	9330/40 32 BL 130	ISO 40	32	63	160

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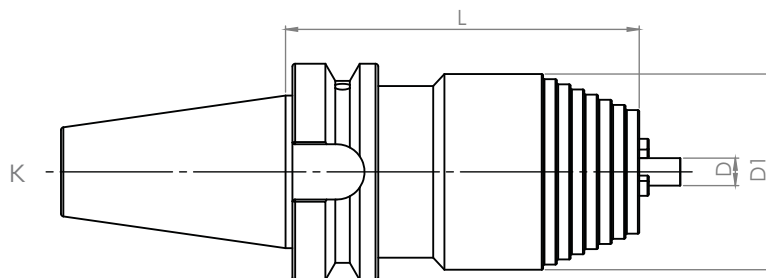


PRE-BALANCED



MANDRINI PORTA PUNTE INTEGRALI drill chuck holders

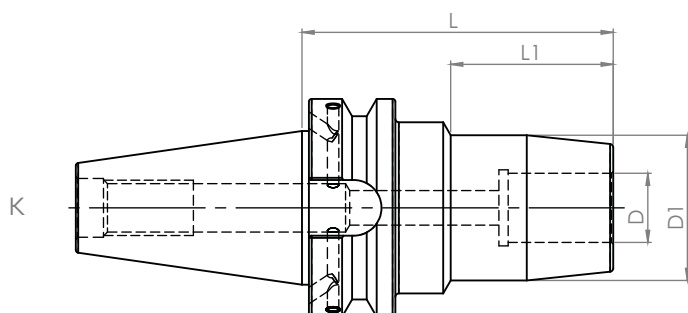
ISO 40 MAS 403 BT/ADB



ISO 40 MAS 403 BT/ADB

NEW CODE	ex code	K	D	D1	L
BT 40/PPI08 L70	NEW!	ISO 40	0,3-8	36	70
BT 40/PPI13 L90	93 55/40 13 L 87	ISO 40	1-13	50	90
BT 40/PPI16 L95	93 55/40 16 L 106	ISO 40	2,5-16	57	95

MANDRINI IDRAULICI hydraulic chuck



ISO 40 MAS 403 BT/ADB

ISO 40 MAS 403 BT/ADB

NEW CODE	ex code	K	D	D1	L	L1
BT40/HY 06 L90	93 58 /40 06 L80	ISO 40	6	26	90	29
BT40/HY 08 L90	93 58 /40 08 L80	ISO 40	8	28	90	30
BT40/HY 10 L90	93 58 /40 10 L80	ISO 40	10	30	90	35
BT40/HY 12 L90	93 58 /40 12 L80	ISO 40	12	32	90	40
BT40/HY 14 L90	93 58 /40 14 L80	ISO 40	14	34	90	40
BT40/HY 16 L90	93 58 /40 16 L90	ISO 40	16	38	90	45
BT40/HY 18 L90	93 58 /40 18 L90	ISO 40	18	40	90	46
BT40/HY 20 L72	93 58 /40 20 L72	ISO 40	20	42	72	-
BT40/HY 20 L90	93 58 /40 20 L80	ISO 40	20	42	90	47
BT40/HY 25 L90	93 58 /40 25 L80	ISO 40	25	55	90	54
BT40/HY 32 L90	93 58 /40 32 L80	ISO 40	32	63	90	48

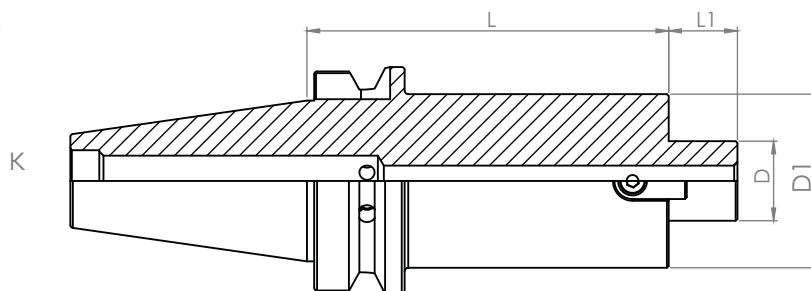


PRE-BALANCED



MANDRINI PORTA FRESE TRASCINAMENTO FISSO shell-end mill holder

ISO 40 MAS 404 BT/AD



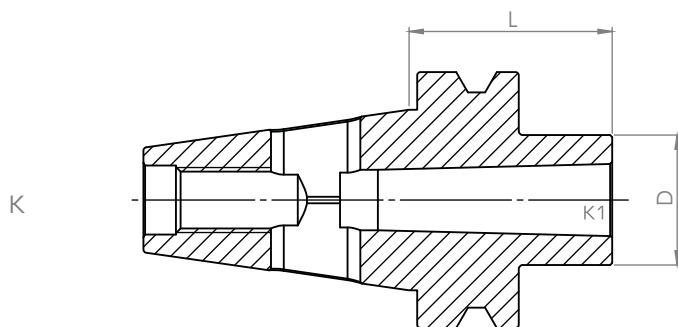
ISO 40 MAS 403 BT/AD

NEW CODE	ex code	K	D	D1	L	L1
BT40/PF 16L44	9360/40 16L44	ISO 40	16	38	44	17
BT40/PF 16L100	9361/40 16L100	ISO 40	16	38	100	17
BT40/PF 16L130	9361/40 16L130	ISO 40	16	38	130	17
BT40/PF 16L160	9361/40 16L160	ISO 40	16	38	160	17
BT40/PF 22L55	9360/40 22L55	ISO 40	22	48	55	19
BT40/PF 22L100	9361/40 22L100	ISO 40	22	48	100	19
BT40/PF 22L130	9361/40 22L130	ISO 40	22	48	130	19
BT40/PF 22L160	9361/40 22L160	ISO 40	22	48	160	19
BT40/PF 27L60	9360/40 27L60	ISO 40	27	58	60	21
BT40/PF 27L100	9361/40 27L100	ISO 40	27	58	100	21
BT40/PF 27L130	9361/40 27L130	ISO 40	27	58	130	21
BT40/PF 27L160	9361/40 27L160	ISO 40	27	58	160	21
BT40/PF 32L60	9360/40 32L60	ISO 40	32	63	60	24
BT40/PF 32L100	9361/40 32L100	ISO 40	32	63	60	24
BT40/PF 32L130	9361/40 32L130	ISO 40	32	63	60	24
BT40/PF 32L160	9361/40 32L160	ISO 40	32	63	60	24
BT40/PF 40L60	9360/40 40L60	ISO 40	40	80	60	27



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RIDUZIONE CONO MORSE PER PUNTE drills morse taper adapter



ISO 40 MAS 404 BT/A

ISO 40 MAS 403 BT/A

NEW CODE	ex code	K	K1	D	L
BT40/CMP 1 L50	9390/40 01 L50	ISO40	CM 1	25	50
BT40/CMP 1 L120	9390/40 01 L120	ISO40	CM 1	25	120
BT40/CMP 2 L65	9390/40 02 L65	ISO40	CM 2	32	60
BT40/CMP 2 L120	9390/40 02 L120	ISO40	CM 2	32	120
BT40/CMP 3 L70	9390/40 03 L70	ISO40	CM 3	40	70
BT40/CMP 3 L135	9390/40 03 L135	ISO40	CM 3	40	135
BT40/CMP 4 L95	9390/40 04 L95	ISO40	CM 4	48	95
BT40/CMP 4 L165	9390/40 04 L165	ISO40	CM 4	48	165



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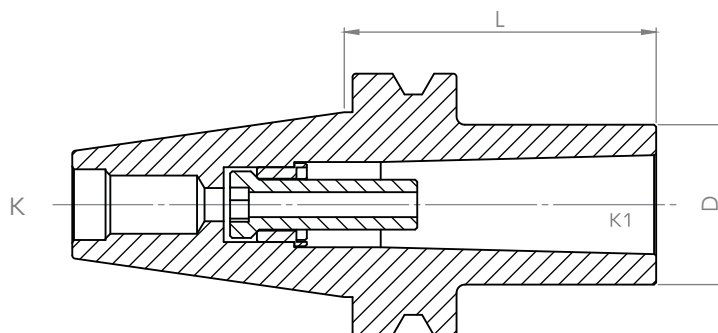


PRE-BALANCED



RIDUZIONE CONO MORSE PER FRESE end mills morse taper adapter

ISO 40 MAS 403 BT/A



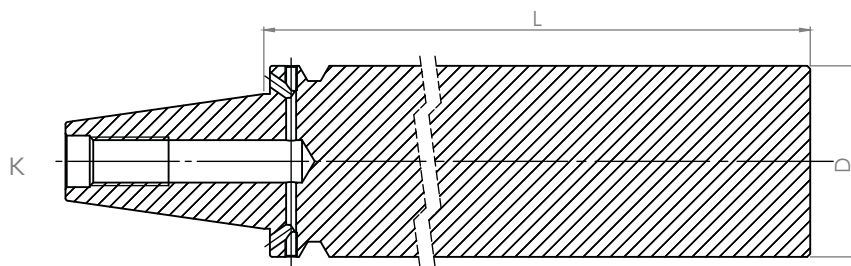
ISO 40 MAS 403 BT/A

NEW CODE	ex code	K	K1	D	L
BT40/CMF 1 L50	9391/40 01 L50	ISO40	CM 1	25	50
BT40/CMF 2 L60	9391/40 02 L60	ISO40	CM 2	32	60
BT40/CMF 2 L120	9391/40 02 L120	ISO40	CM 2	32	120
BT40/CMF 3 L75	9391/40 03 L75	ISO40	CM 3	40	75
BT40/CMF 3 L135	9391/40 03 L135	ISO40	CM 3	40	135
BT40/CMF 4 L105	9391/40 04 L105	ISO40	CM 4	48	105



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MANDRINI STELO TENERO blank arbors



ISO 40 MAS 403 BT/A

ISO 40 MAS 404 BT/A

NEW CODE	ex code	K	D	L
BT40/ST 63 L250	93 80 / 40 63 L250	ISO 40	63	250



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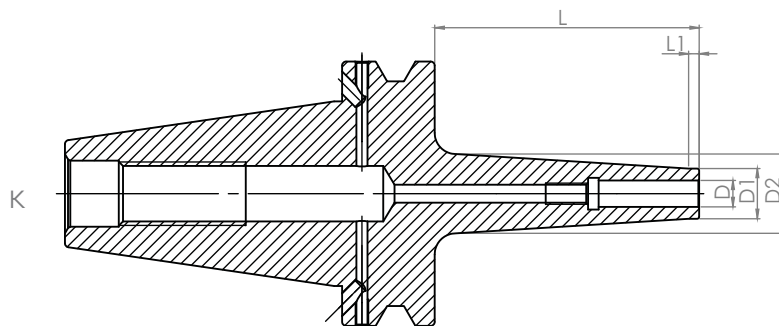
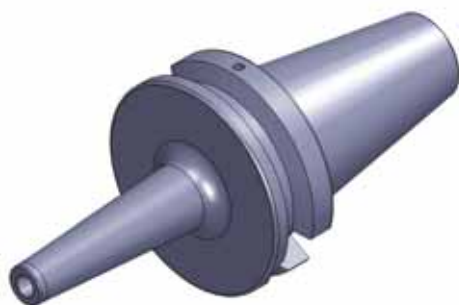


PRE-BALANCED



CALETTAMENTO A CALDO heat shrinking

ISO 50 MAS 503 BT/ADB



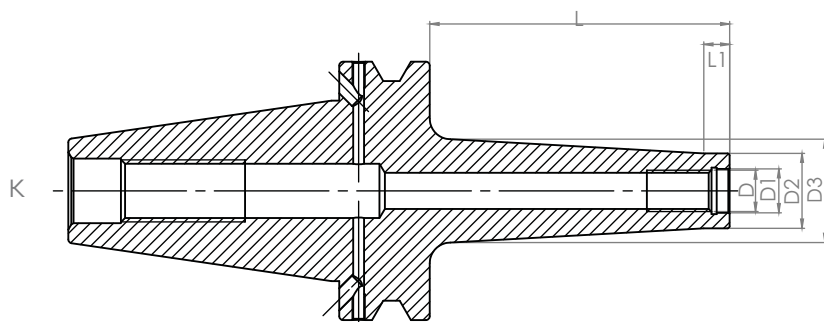
ISO 50 MAS 403 BT/ADB

NEW CODE	ex code	K	D	D1	D2	L	L1
BT50/CT 06L075	6650/07506	ISO 50	6	12	20	75	4
BT50/CT 06L100	6650/10006	ISO 50	6	12	23	100	4
BT50/CT 06L120	6650/12506	ISO 50	6	12	26	125	4
BT50/CT 08L075	6650/07508	ISO 50	8	17	25	75	4
BT50/CT 08L100	6650/10008	ISO 50	8	17	28	100	4
BT50/CT 08L125	6650/12508	ISO 50	8	17	31	125	4
BT50/CT 10L075	6650/07510	ISO 50	10	19	27	75	4
BT50/CT 10L100	6650/10010	ISO 50	10	19	30	100	4
BT50/CT 10L125	6650/12510	ISO 50	10	19	33	125	4
BT50/CT 12L075	6650/07512	ISO 50	12	22	30	75	4
BT50/CT 12L100	6650/10012	ISO 50	12	22	33	100	4
BT50/CT 12L125	6650/12512	ISO 50	12	22	36	125	4
BT50/CT 16L075	6650/07516	ISO 50	16	26	34	75	4
BT50/CT 16L100	6650/10016	ISO 50	16	26	37	100	4
BT50/CT 16L125	6650/12516	ISO 50	16	26	40	125	4



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PORTA TESTINA screw-in endmills



ISO 50 MAS 403 BT/ADB

ISO 50 MAS 403 BT/ADB

NEW CODE	ex code	K	D	D1	D2	D3	L	L1
BT50/PT 12L066	7650/06612	ISO 50	M12	12,5	21	32	66	10
BT50/PT 12L116	7650/11612	ISO 50	M12	12,5	21	32	116	10
BT50/PT 12L166	7650/16612	ISO 50	M12	12,5	21	36	166	10
BT50/PT 12L216	7650/21612	ISO 50	M12	12,5	21	42	216	10
BT50/PT 16L066	7650/06616	ISO 50	M16	17	29	36	66	10
BT50/PT 16L116	7650/11616	ISO 50	M16	17	29	40	116	10
BT50/PT 16L166	7650/16616	ISO 50	M16	17	29	42	166	10
BT50/PT 16L216	7650/21616	ISO 50	M16	17	29	44	216	10



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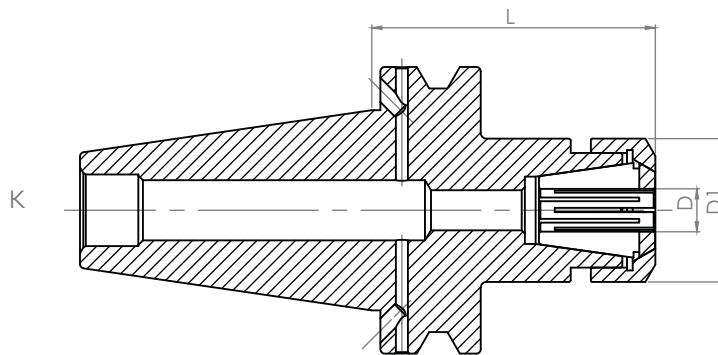
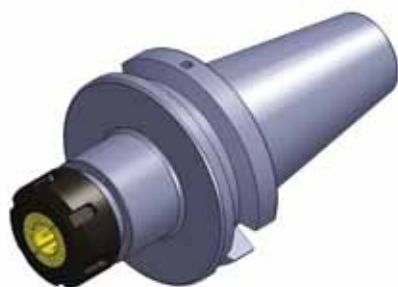


PRE-BALANCED



PORTA PINZA collet chucks

ISO 50 MAS 403 BT/ADB



ISO 50 MAS 403 BT/ADB

NEW CODE	ex code	K	D	D1	L	PINZA
BT50/ER 16 BL 100	8090/50 16 BL 100	ISO 50	1-10	32	100	ER 16
BT50/ER 16 BL 160	8090/50 16 BL 160	ISO 50	1-10	32	160	ER 16
BT50/ER 20 BL 100	8090/50 20 BL 100	ISO 50	1-13	35	100	ER 20
BT50/ER 20 BL 160	8090/50 20 BL 160	ISO 50	1-13	35	160	ER 20
BT50/ER 25 BL 80	8090/50 25 BL 80	ISO 50	2-16	42	80	ER 25
BT50/ER 25 BL 100	8090/50 25 BL 100	ISO 50	2-16	42	100	ER 25
BT50/ER 25 BL 130	8090/50 25 BL 130	ISO 50	2-16	42	130	ER 25
BT50/ER 25 BL 160	8090/50 25 BL 160	ISO 50	2-16	42	160	ER 25
BT50/ER 25 BL 200	8090/50 25 BL 200	ISO 50	2-16	42	200	ER 25
BT50/ER 32 BL 80	8090/50 32 BL 80	ISO 50	2-20	50	80	ER 32
BT50/ER 32 BL 100	8090/50 32 BL 100	ISO 50	2-20	50	100	ER 32
BT50/ER 32 BL 130	8090/50 32 BL 130	ISO 50	2-20	50	130	ER 32
BT50/ER 32 BL 160	8090/50 32 BL 160	ISO 50	2-20	50	160	ER 32
BT50/ER 32 BL 200	8090/50 32 BL 200	ISO 50	2-20	50	200	ER 32
BT50/ER 32 BL 250	8090/50 32 BL 250	ISO 50	2-20	50	250	ER 32
BT50/ER 40 BL 80	8090/50 40 BL 80	ISO 50	3-30	63	80	ER 40
BT50/ER 40 BL 100	8090/50 40 BL 100	ISO 50	3-30	63	100	ER 40
BT50/ER 40 BL 130	8090/50 40 BL 130	ISO 50	3-30	63	130	ER 40
BT50/ER 40 BL 160	8090/50 40 BL 160	ISO 50	3-30	63	160	ER 40
BT50/ER 40 BL 200	8090/50 40 BL 200	ISO 50	3-30	63	200	ER 40



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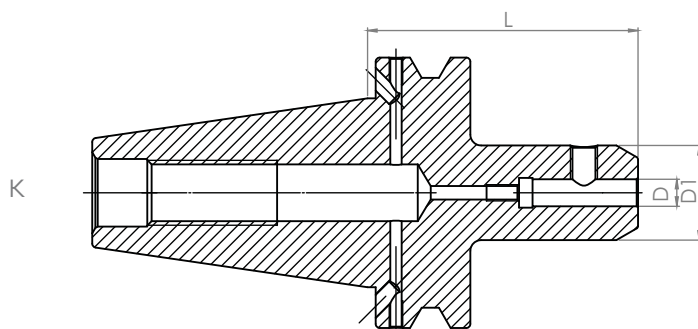


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MANDRINI PORTA FRESE TIPO WELDON end mill holders weldon



ISO 50 MAS 403 BT/ADB

ISO 50 MAS 403 BT/ADB

NEW CODE	ex code	K	D	D1	L
BT50/WE 06 BL 63	9330/5006BL65	ISO 50	6	25	63
BT50/WE 06 BL 100	9330/5006BL100	ISO 50	6	25	100
BT50/WE 06 BL 130	9330/5006BL130	ISO 50	6	25	130
BT50/WE 06 BL 160	9330/5006BL160	ISO 50	6	25	160
BT50/WE 06 BL 200	9330/5006BL200	ISO 50	6	25	200
BT50/WE 08 BL 63	9330/5008BL60	ISO 50	8	28	63
BT50/WE 08 BL 100	9330/5008BL100	ISO 50	8	28	100
BT50/WE 08 BL 130	9330/5008BL130	ISO 50	8	28	130
BT50/WE 08 BL 160	9330/5008BL160	ISO 50	8	28	160
BT50/WE 08 BL 200	9330/5008BL200	ISO 50	8	28	200
BT50/WE 10 BL 63	9330/5010BL70	ISO 50	10	35	63
BT50/WE 10 BL 100	9330/5010BL100	ISO 50	10	35	100
BT50/WE 10 BL 130	9330/5010BL130	ISO 50	10	35	130
BT50/WE 10 BL 160	9330/5010BL160	ISO 50	10	35	160
BT50/WE 10 BL 200	9330/5010BL200	ISO 50	10	35	200
BT50/WE 12 BL 80	9330/5012BL75	ISO 50	12	42	80
BT50/WE 12 BL 100	9330/5012BL100	ISO 50	12	42	100
BT50/WE 12 BL 130	9330/5012BL130	ISO 50	12	42	130
BT50/WE 12 BL 160	9330/5012BL160	ISO 50	12	42	160
BT50/WE 12 BL 200	9330/5012BL200	ISO 50	12	42	200

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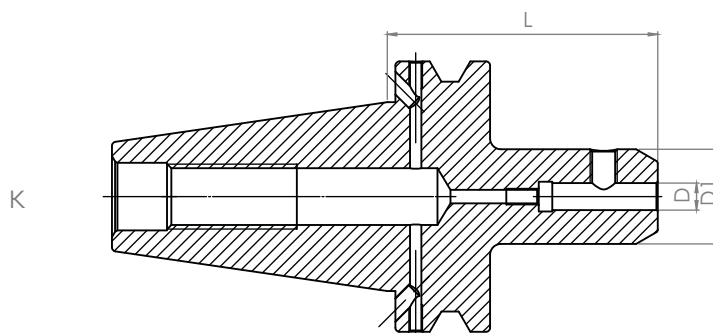


PRE-BALANCED



MANDRINI PORTA FRESE TIPO WELDON end mill holders weldon

ISO 50 MAS 403 BT/ADB



ISO 50 MAS 403 BT/ADB

NEW CODE	ex code	K	D	D1	L
BT50/WE14BL75	9330/5014BL70	ISO 50	14	44	70
BT50/WE14BL100	9330/5014BL100	ISO 50	14	44	100
BT50/WE16BL35	9330/5016BL35	ISO 50	16	48	35
BT50/WE16BL80	9330/5016BL80	ISO 50	16	48	70
BT50/WE16BL100	9330/5016BL100	ISO 50	16	48	100
BT50/WE16BL130	9330/5016BL130	ISO 50	16	48	130
BT50/WE16BL160	9330/5016BL160	ISO 50	16	48	160
BT50/WE16BL200	9330/5016BL200	ISO 50	16	48	200
BT50/WE18BL80	9330/5018BL80	ISO 50	18	50	80
BT50/WE18BL100	9330/5018BL100	ISO 50	18	50	100
BT50/WE20BL35	9330/5020BL35	ISO 50	20	52	35
BT50/WE20BL80	9330/5020BL80	ISO 50	20	52	80
BT50/WE20BL100	9330/5020BL100	ISO 50	20	52	100
BT50/WE20BL130	9330/5020BL130	ISO 50	20	52	130
BT50/WE20BL160	9330/5020BL160	ISO 50	20	52	160
BT50/WE20BL200	9330/5020BL200	ISO 50	20	52	200

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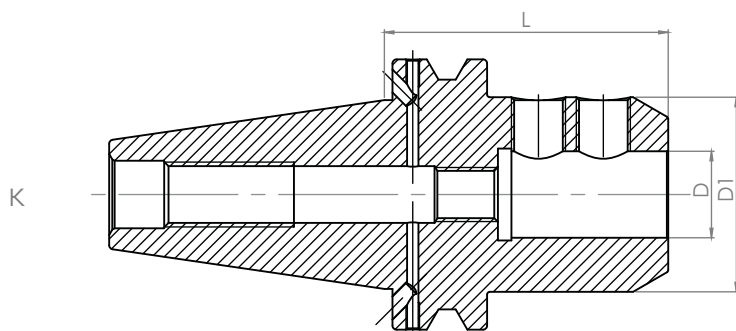


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MANDRINI PORTA FRESE TIPO WELDON end mill holders weldon



ISO 50 MAS 403 BT/ADB

ISO 50 MAS 403 BT/ADB

NEW CODE	ex code	K	D	D1	L
BT50/WE25BL35	9330/5025BL35	ISO 50	25	63	35
BT50/WE25BL100	9330/5025BL100	ISO 50	25	63	100
BT50/WE25BL130	9330/5025BL130	ISO 50	25	63	130
BT50/WE25BL160	9330/5025BL160	ISO 50	25	63	160
BT50/WE25BL200	9330/5025BL200	ISO 50	25	63	200
BT50/WE32BL35	9330/5032BLL35	ISO 50	32	63	35
BT50/WE32BL105	9330/5032BL105	ISO 50	32	63	105
BT50/WE32BL130	9330/5032BL130	ISO 50	32	63	130
BT50/WE32BL160	9330/5032BL160	ISO 50	32	63	160
BT50/WE32BL200	9330/5032BL200	ISO 50	32	63	200
BT50/WE40BL120	9330/5040BL120	ISO 50	40	80	120
BT50/WE40BL160	9330/5040BL160	ISO 50	40	80	160

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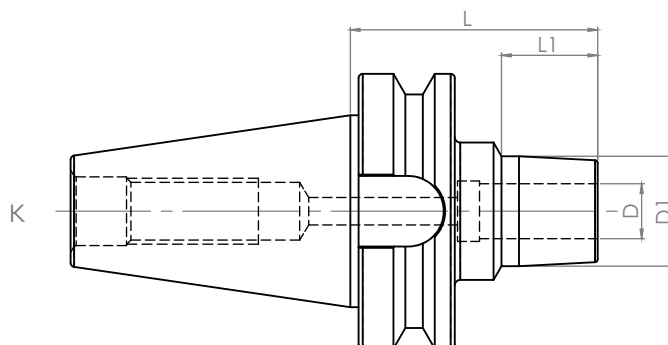
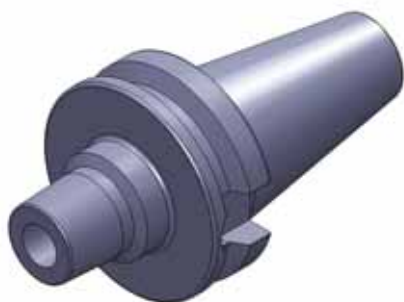


PRE-BALANCED



MANDRINI IDRAULICI hydraulic chuck

ISO 50 MAS 403 BT/ADB



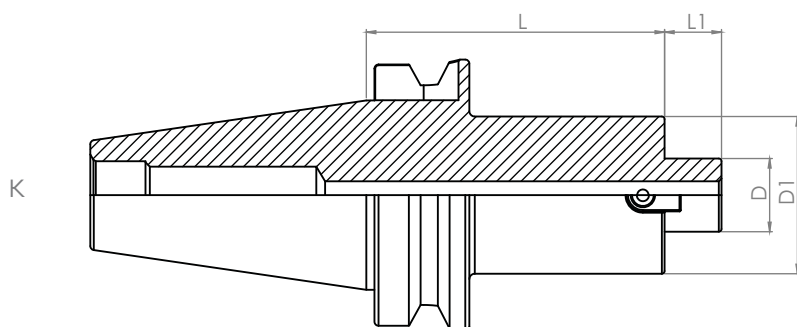
ISO 50 MAS 403 BT/ADB

NEW CODE	ex code	K	D	D1	L	L1
BT50/HY 06L110	NEW!	ISO 50	6	26	90	29
BT50/HY 08L110		ISO 50	8	28	90	30
BT50/HY 10L110		ISO 50	10	30	90	34
BT50/HY 12L110		ISO 50	12	32	90	34
BT50/HY 14L110		ISO 50	14	34	90	34
BT50/HY 16L110		ISO 50	16	38	90	35
BT50/HY 18L110		ISO 50	18	40	90	35
BT50/HY 20L90		ISO 50	20	42	90	35
BT50/HY 25L110		ISO 50	25	55	110	48
BT50/HY 32L115		ISO 50	32	63	110	50



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MANDRINI PORTA FRESE TRASCINAMENTO FISSO shell-end mill holder



ISO 50 MAS 403 BT/AD

ISO 50 MAS 403 BT/AD

NEW CODE	ex code	K	D	D1	L	L1
BT50/PF22L60	9360/5022L60	ISO 50	22	48	60	19
BT50/PF22L110	9361/5022L110	ISO 50	22	48	110	19
BT50/PF22L160	9361/5022L160	ISO 50	22	48	160	19
BT50/PF22L200	9361/5022L200	ISO 50	22	48	200	19
BT50/PF22L250	9361/5022L250	ISO 50	22	48	250	19
BT50/PF22L300	9361/5022L300	ISO 50	22	48	300	19
BT50/PF22L350	9361/5022L350	ISO 50	22	48	350	19
BT50/PF27L65	9360/5027L65	ISO 50	27	58	65	21
BT50/PF27L110	9361/5027L110	ISO 50	27	58	110	21
BT50/PF27L160	9361/5027L160	ISO 50	27	58	160	21
BT50/PF27L200	9361/5027L200	ISO 50	27	58	200	21
BT50/PF27L250	9361/5027L250	ISO 50	27	58	250	21
BT50/PF27L300	9361/5027L300	ISO 50	27	58	300	21
BT50/PF27L350	9361/5027L350	ISO 50	27	58	350	21
BT50/PF32L65	9360/5032L65	ISO 50	32	63	65	24
BT50/PF32L110	9361/5032L110	ISO 50	32	63	110	24
BT50/PF32L160	9361/5032L160	ISO 50	32	63	160	24
BT50/PF32L200	9361/5032L200	ISO 50	32	63	200	24
BT50/PF32L250	9361/5032L250	ISO 50	32	63	250	24
BT50/PF32L300	9361/5032L300	ISO 50	32	63	300	24
BT50/PF32L350	9361/5032L350	ISO 50	32	63	350	24
BT50/PF40L68	9360/5040L68	ISO 50	40	80	68	27
BT50/PF40L110	9361/5040L110	ISO 50	40	80	110	27
BT50/PF40L160	9362/5040L160	ISO 50	40	80	160	27



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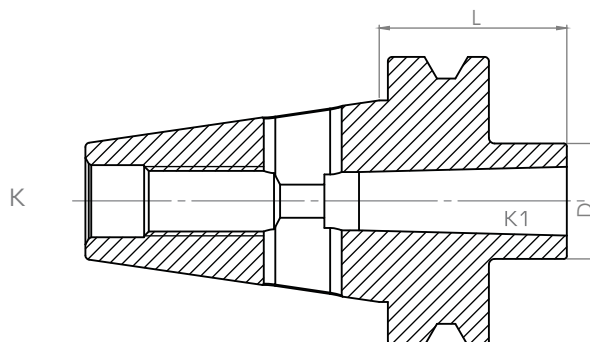


PRE-BALANCED



RIDUZIONE CONO MORSE PER PUNTE drills morse taper adapter

ISO 50 MAS 403 BT/AD



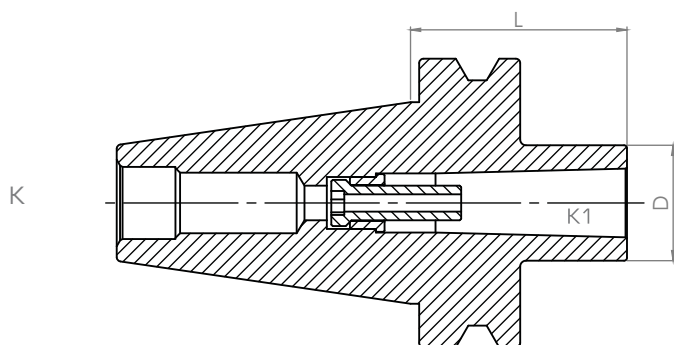
ISO 50 MAS 403 BT/AD

NEW CODE	ex code	K	K1	D	L
BT50/CMP 2 L60	9390/5002L60	ISO 50	CM 2	32	60
BT50/CMP 2 L135	9390/5002L135	ISO 50	CM 2	32	135
BT50/CMP 3 L65	9390/5003L65	ISO 50	CM 3	40	65
BT50/CMP 3 L155	9390/5003L155	ISO 50	CM 3	40	155
BT50/CMP 4 L95	9390/5004L95	ISO 50	CM 4	48	95
BT50/CMP 4 L180	9390/5004L180	ISO 50	CM 4	48	180
BT50/CMP 5 L105	9390/5005L105	ISO 50	CM 5	63	105
BT50/CMP 5 L215	9390/5005L215	ISO 50	CM 5	63	215



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RIDUZIONE CONO MORSE PER FRESE end mills morse taper adapter



ISO 50 MAS 403 BT/AD

NEW CODE	ex code	K	K1	D	L
BT50/CMF 2 L60	9391/5002L60	ISO 50	CM 2	32	60
BT50/CMF 2 L188	9391/5002L188	ISO 50	CM 2	32	188
BT50/CMF 3 L75	9391/5003L75	ISO 50	CM 3	40	75
BT50/CMF 3 L188	9391/5003L188	ISO 50	CM 3	40	188
BT50/CMF 4 L105	9391/5004L105	ISO 50	CM 4	48	95
BT50/CMF 5 L130	9391/5005L130	ISO 50	CM 5	63	105



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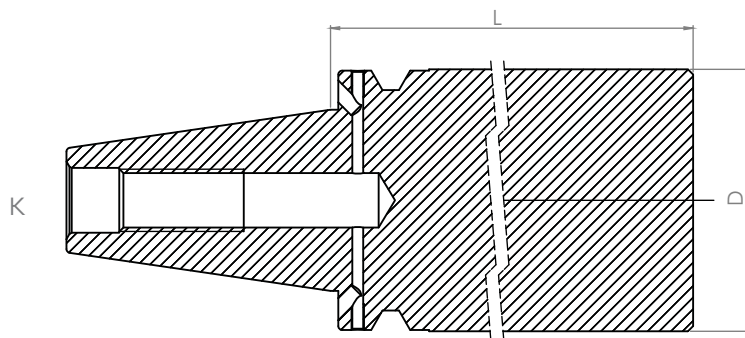


PRE-BALANCED



MANDRINI STELO TENERO blank arbors

ISO 50 MAS 403 BT



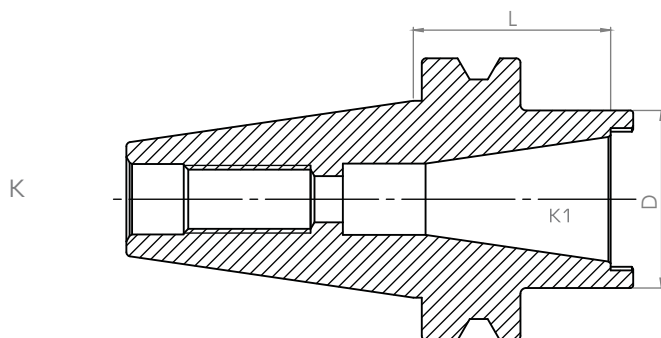
ISO 50 MAS 403 BT

NEW CODE	ex code	K	D	L
BT50/ST95L250	9380/5080L250	ISO 50	95	250
BT50/ST95L320	9380/5080L320	ISO 50	95	320



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RIDUZIONE DA CONO ISO A CONO ISO
tool holders adapter from iso to iso taper



ISO 50 MAS 403 BT

ISO 50 MAS 403 BT

NEW CODE	ex code	K	K1	D	L
BT50/RI 40L70	9395/5040L70	ISO 50	ISO 40	63	90



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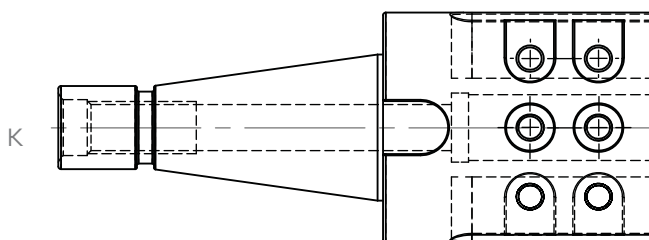
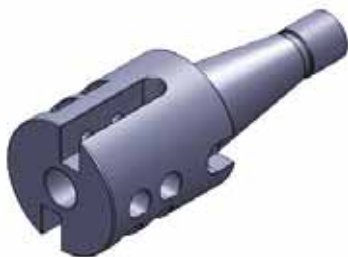


PRE-BALANCED



PORTA UTENSILI DUE SPACCHI

TRANSFER



ISO 30/40 DIN 2080/ DIN 2080TR

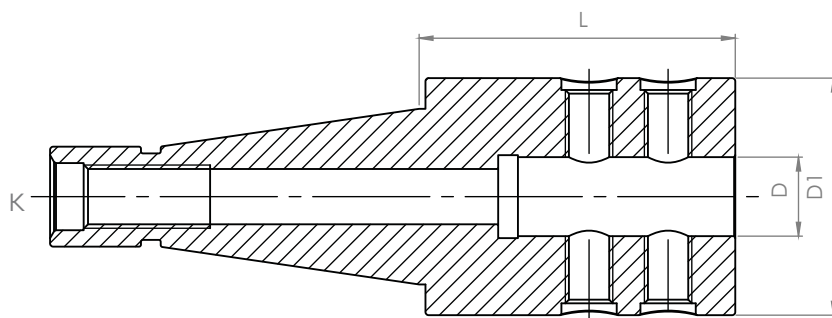
NEW CODE

K

50 30	ISO 30	
50 40	ISO 40	
51 30	ISO 30	TRONCO
51 40	ISO 40	TRONCO

A richiesta si possono fornire mandrini porta utensili a disegno
Tool holders on customer's drawing are available on demand

MANDRINI TIPO WELDON weldon type tool holders



TRANSFER

ISO 30/40 DIN 2080

NEW CODE	ex code	K	D	D1	L
DC30/WE 16L80	6030/1680	ISO 30	16	50	80
DC30/WE 16L100	6030/16100	ISO 30	16	50	100
DC30/WE 16L120	6030/16120	ISO 30	16	50	120
DC30/WE 20L80	6030/2080	ISO 30	20	50	80
DC30/WE 20L100	6030/20100	ISO 30	20	50	100
DC30/WE 20L120	6030/20120	ISO 30	20	50	120
DC40/WE 16L80	6040/1680	ISO 40	16	63	80
DC40/WE 16L100	6040/16100	ISO 40	16	63	100
DC40/WE 16L120	6040/16120	ISO 40	16	63	120
DC40/WE 20L80	6040/2080	ISO 40	20	63	80
DC40/WE 20L100	6040/20100	ISO 40	20	63	100
DC40/WE 20L120	6040/20120	ISO 40	20	63	120

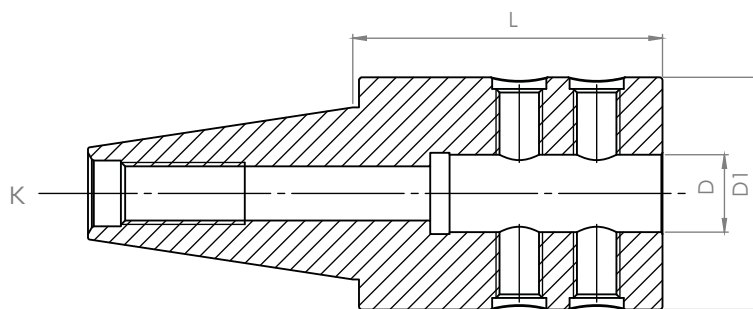


PRE-BALANCED



MANDRINI TIPO WELDON weldon type tool holders

TRANSFER



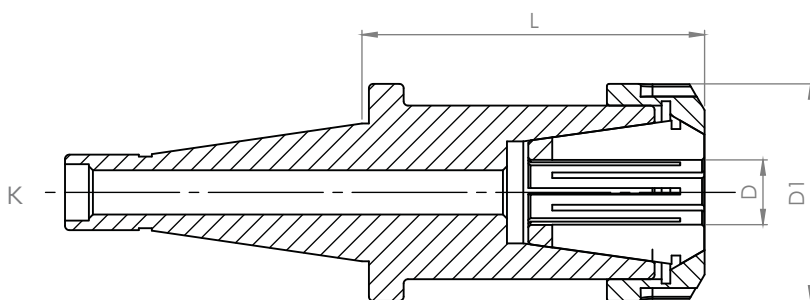
ISO 30/40 DIN 2080 TR

NEW CODE	ex code	K	D	D1	L
TR30/WE 16L80	6130/16080	ISO 30	16	50	80
TR30/WE 16L100	6130/16100	ISO 30	16	50	100
TR30/WE 16L120	6130/16120	ISO 30	16	50	120
TR30/WE 20L80	6130/20080	ISO 30	20	50	80
TR30/WE 20L100	6130/20100	ISO 30	20	50	100
TR30/WE 20L120	6130/20120	ISO 30	20	50	120
TR40/WE 16L80	6140/16080	ISO 40	16	63	80
TR40/WE 16L100	6140/16100	ISO 40	16	63	100
TR40/WE 16L120	6140/16120	ISO 40	16	63	120
TR40/WE 20L80	6140/20080	ISO 40	20	63	80
TR40/WE 20L100	6140/20100	ISO 40	20	63	100
TR40/WE 20L120	6140/20120	ISO 40	20	63	120



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MANDRINI PORTA PINZA collet chucks



TRANSFER

ISO 30 DIN 2080

NEW CODE	ex code	K	D	D1	L	PINZE
DC30/ER 32L50	8030/32050	ISO 30	2-20	50	50	ER 32
DC30/ER 32L60	8030/32060	ISO 30	2-20	50	60	ER 32
DC30/ER 32L70	8030/32070	ISO 30	2-20	50	70	ER 32
DC30/ER 32L80	8030/32080	ISO 30	2-20	50	80	ER 32
DC30/ER 32L90	8030/32090	ISO 30	2-20	50	90	ER 32
DC30/ER 32L100	8030/32100	ISO 30	2-20	50	100	ER 32
DC30/ER 32L110	8030/32110	ISO 30	2-20	50	110	ER 32
DC30/ER 32L120	8030/32120	ISO 30	2-20	50	120	ER 32
DC30/ER 40L60	8030/40060	ISO 30	3-30	63	60	ER 40
DC30/ER 40L70	8030/40070	ISO 30	3-30	63	70	ER 40
DC30/ER 40L80	8030/40080	ISO 30	3-30	63	80	ER 40
DC30/ER 40L90	8030/40090	ISO 30	3-30	63	90	ER 40
DC30/ER 40L100	8030/40100	ISO 30	3-30	63	100	ER 40
DC30/ER 40L110	8030/40110	ISO 30	3-30	63	110	ER 40
DC30/ER 40L120	8030/40120	ISO 30	3-30	63	120	ER 40



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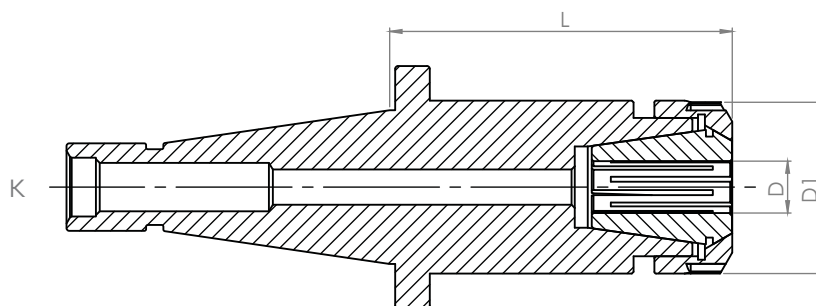


PRE-BALANCED



MANDRINI PORTA PINZA collet chucks

TRANSFER



ISO 40 DIN 2080

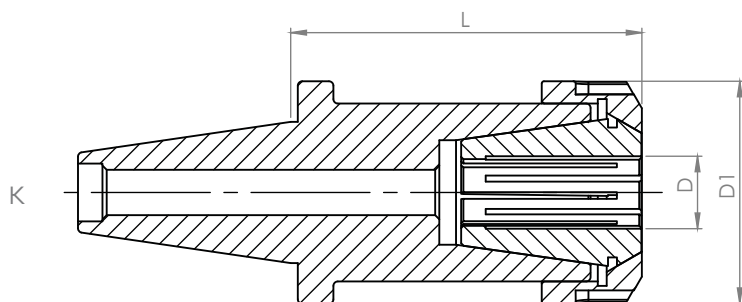
NEW CODE	ex code	K	D	D1	L	PINZE
DC40/ER 32 L50	8040/32050	ISO 40	2-20	50	50	ER 32
DC40/ER 32 L60	8040/32060	ISO 40	2-20	50	60	ER 32
DC40/ER 32 L70	8040/32070	ISO 40	2-20	50	70	ER 32
DC40/ER 32 L80	8040/32080	ISO 40	2-20	50	80	ER 32
DC40/ER 32 L90	8040/32090	ISO 40	2-20	50	90	ER 32
DC40/ER 32 L100	8040/32100	ISO 40	2-20	50	100	ER 32
DC40/ER 32 L110	8040/32110	ISO 40	2-20	50	110	ER 32
DC40/ER 32 L120	8040/32120	ISO 40	2-20	50	120	ER 32
DC40/ER 32 L150	8040/32150	ISO 40	2-20	50	150	ER 32
DC40/ER 40 L50	8040/40050	ISO 40	3-30	63	50	ER 40
DC40/ER 40 L60	8040/40060	ISO 40	3-30	63	60	ER 40
DC40/ER 40 L70	8040/40070	ISO 40	3-30	63	70	ER 40
DC40/ER 40 L80	8040/40080	ISO 40	3-30	63	80	ER 40
DC40/ER 40 L90	8040/40090	ISO 40	3-30	63	90	ER 40
DC40/ER 40 L100	8040/40100	ISO 40	3-30	63	100	ER 40
DC40/ER 40 L110	8040/40110	ISO 40	3-30	63	110	ER 40
DC40/ER 40 L120	8040/40120	ISO 40	3-30	63	120	ER 40
DC40/ER 40 L150	8040/40150	ISO 40	3-30	63	150	ER 40



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MANDRINI PORTA PINZA
collet chucks



TRANSFER

ISO 30 DIN 2080 TR

NEW CODE	ex code	K	D	D1	L	PINZE
TR30/ER 32L50	8130/32050	ISO 30	2-20	50	50	ER 32
TR30/ER 32L60	8130/32060	ISO 30	2-20	50	60	ER 32
TR30/ER 32L70	8130/32070	ISO 30	2-20	50	70	ER 32
TR30/ER 32L80	8130/32080	ISO 30	2-20	50	80	ER 32
TR30/ER 32L90	8130/32090	ISO 30	2-20	50	90	ER 32
TR30/ER 32L100	8130/32100	ISO 30	2-20	50	100	ER 32
TR30/ER 32L110	8130/32110	ISO 30	2-20	50	110	ER 32
TR30/ER 32L120	8130/32120	ISO 30	2-20	50	120	ER 32
TR30/ER 40L60	8130/40060	ISO 30	3-30	63	60	ER 40
TR30/ER 40L70	8130/40070	ISO 30	3-30	63	70	ER 40
TR30/ER 40L80	8130/40080	ISO 30	3-30	63	80	ER 40
TR30/ER 40L90	8130/40090	ISO 30	3-30	63	90	ER 40
TR30/ER 40L100	8130/40100	ISO 30	3-30	63	100	ER 40
TR30/ER 40L110	8130/40110	ISO 30	3-30	63	110	ER 40
TR30/ER 40L120	8130/40120	ISO 30	3-30	63	120	ER 40



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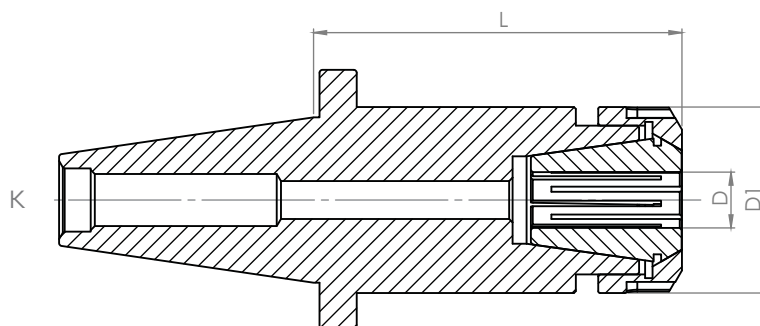


PRE-BALANCED



MANDRINI PORTA PINZA collet chucks

TRANSFER



ISO 40 DIN 2080 TR

NEW CODE	ex code	K	D	D1	L	PINZE
TR40/ER32L50	8140/32050	ISO 40	2-20	50	50	ER 32
TR40/ER32L60	8140/32060	ISO 40	2-20	50	60	ER 32
TR40/ER32L70	8140/32070	ISO 40	2-20	50	70	ER 32
TR40/ER32L80	8140/32080	ISO 40	2-20	50	80	ER 32
TR40/ER32L90	8140/32090	ISO 40	2-20	50	90	ER 32
TR40/ER32L100	8140/32100	ISO 40	2-20	50	100	ER 32
TR40/ER32L110	8140/32110	ISO 40	2-20	50	110	ER 32
TR40/ER32L120	8140/32120	ISO 40	2-20	50	120	ER 32
TR40/ER32L150	8140/32150	ISO 40	2-20	50	150	ER 32
TR40/ER40L50	8140/40050	ISO 40	3-30	63	50	ER 40
TR40/ER40L60	8140/40060	ISO 40	3-30	63	60	ER 40
TR40/ER40L70	8140/40070	ISO 40	3-30	63	70	ER 40
TR40/ER40L80	8140/40080	ISO 40	3-30	63	80	ER 40
TR40/ER40L90	8140/40090	ISO 40	3-30	63	90	ER 40
TR40/ER40L100	8140/40100	ISO 40	3-30	63	100	ER 40
TR40/ER40L110	8140/40110	ISO 40	3-30	63	110	ER 40
TR40/ER40L120	8140/40120	ISO 40	3-30	63	120	ER 40
TR40/ER40L150	8140/40150	ISO 40	3-30	63	150	ER 40



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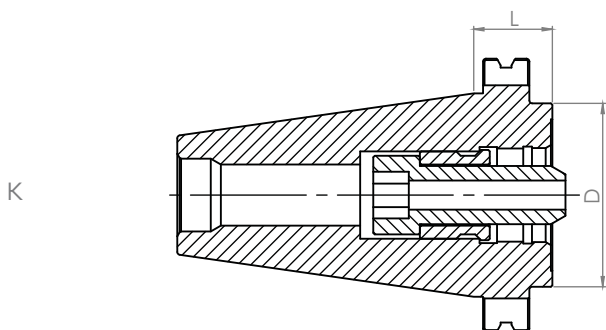
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ATTACCHI BASE arbors

MODULARI



ISO 40 DIN 69871/ADB

NEW CODE	ex code	K	D	L
TC40/VL50BL27	9215/4050BL27	ISO40	50	27
TC40/VL50BL50	9215/4050BL50	ISO40	50	50
TC40/VL63BL50	9215/4063BL50	ISO40	50	63
TC50/VL50BL27	9215/5050BL27	ISO50	50	27
TC50/VL50BL50	9215/5050BL50	ISO50	50	50
TC50/VL63BL27	9215/5063BL27	ISO50	63	27
TC50/VL63BL50	9215/5063BL50	ISO50	63	50
TC50/VL80BL27	9215/5080BL27	ISO50	80	27
TC50/VL80BL50	9215/5080BL50	ISO50	80	50
TC50/VL80BL90	9215/5080BL90	ISO50	80	90



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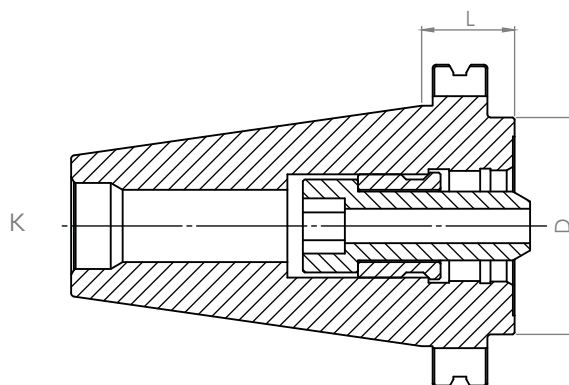


PRE-BALANCED



ATTACCHI BASE arbors

MODULARI



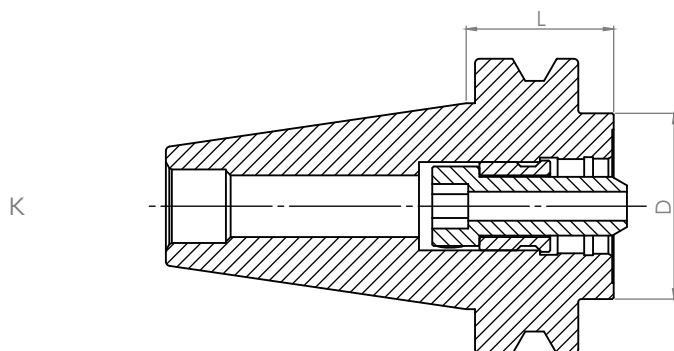
ISO 50 DIN 69871/ADB

NEW CODE	ex code	K	D	L
TC50/VL50BL27	9215/5050BL27	ISO50	50	27
TC50/VL50BL50	9215/5050BL50	ISO50	50	50
TC50/VL63BL27	9215/5063BL27	ISO50	63	27
TC50/VL63BL50	9215/5063BL50	ISO50	63	50
TC50/VL80BL27	9215/5080BL27	ISO50	80	27
TC50/VL80BL50	9215/5080BL50	ISO50	80	50
TC50/VL80BL90	9215/5080BL90	ISO50	80	90



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ATTACCHI BASE arbors



MODULARI

ISO 40 MAS BT/ADB

NEW CODE	ex code	K	D	L
BT40/VL50BL50	9315/4050BL50	ISO40	50	50
BT40/VL63BL50	9315/4063BL50	ISO40	50	63



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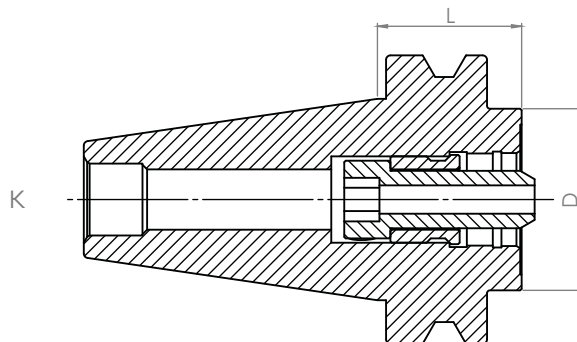


PRE-BALANCED



ATTACCHI BASE arbors

MODULARI



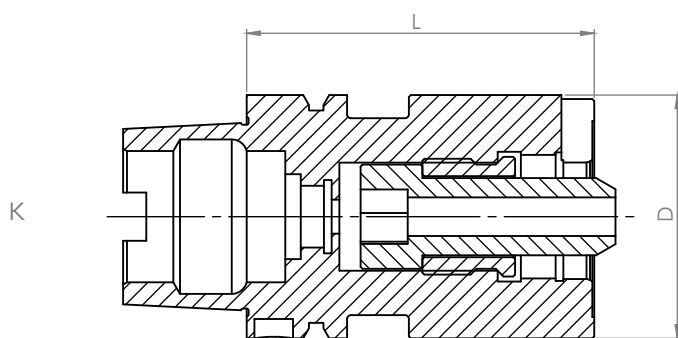
ISO 50 MAS BT/ADB

NEW CODE	ex code	K	D	L
BT50/VL50BL50	93 15/5050BL50	ISO50	50	50
BT50/VL63BL50	93 15/5063BL50	ISO50	63	50
BT50/VL80BL50	93 15/5080BL50	ISO50	80	50



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ATTACCHI BASE arbors



HSK63A DIN 69893

NEW CODE	ex code	K	D	L
HA63/VL50L80	3015/6350L80	HSK 63	50	80
HA63/VL63L90	3015/6363L90	HSK 63	63	90

MODULARI

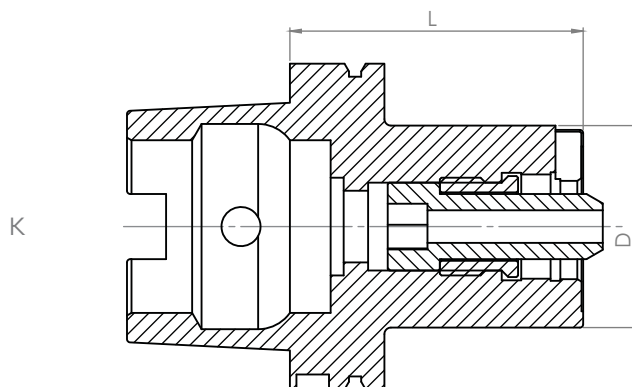


PRE-BALANCED



ATTACCHI BASE arbors

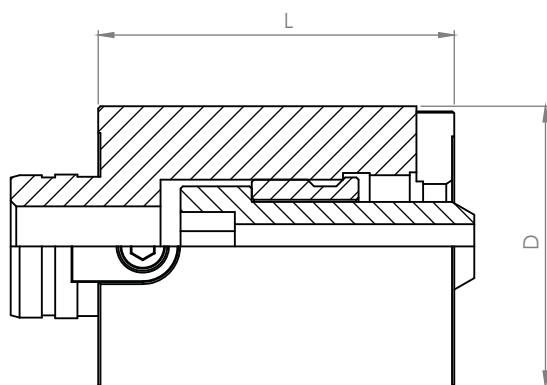
HSK 100A DIN 69893



HSK 100A DIN 69893

NEW CODE	ex code	K	D	L
HA10/VL50L80	3015/10050L80	HSK 100	50	80
HA10/VL63L90	3015/10063L90	HSK 100	63	90
HA10/VL80L90	3015/10080L90	HSK 100	80	90

PROLUNGHE MODULARI modular extensions



I MODULARI

NEW CODE	ex code	D	L
VL50/PVL 50 L60	VL 50 / PVL 50 L60	50	60
VL50/PVL 50 L100	VL 50 / PVL 50 L100	50	100
VL50/PVL 50 L150	VL 50 / PVL 50 L150	50	150
VL63/PVL 63 L40	VL 63 / PVL 63 L40	63	40
VL63/PVL 63 L80	VL 63 / PVL 63 L80	63	80
VL63/PVL 63 L120	VL 63 / PVL 63 L120	63	120
VL63/PVL 63 L160	VL 63 / PVL 63 L160	63	160
VL80/PVL 80 L80	VL 80 / PVL 80 L80	80	80
VL80/PVL 80 L120	VL 80 / PVL 80 L120	80	120
VL80/PVL 80 L160	VL 80 / PVL 80 L160	80	160

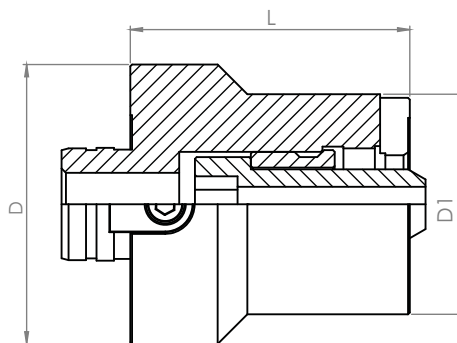


PRE-BALANCED



RIDUZIONI MODULARI modular adapters

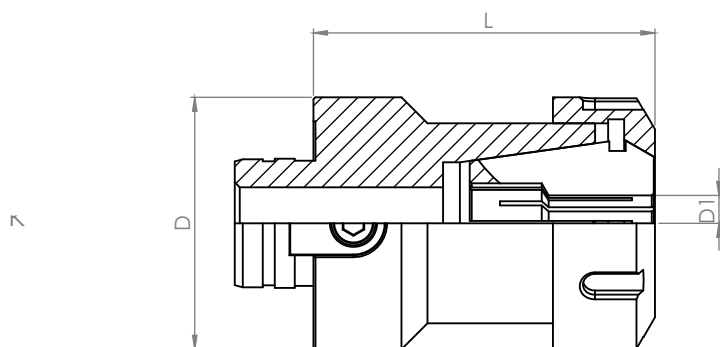
I MODULARI



I MODULARI

NEW CODE	ex code	D	D1	L
VL63/PVL 50L60	VL63/RVL 50L60	63	50	60
VL80/PVL 63L80	VL80/RVL 63L80	80	63	80

PORTA PINZA MODULARI modular collet chucks



I MODULARI

I MODULARI

NEW CODE	ex code	D	D1	L	PINZA
VL50/ER 32 L70	VL50/ER 32 L70	50	2-20	70	ER 32
VL50/ER 40 L80	VL50/ER 40 L80	50	3-30	80	ER 40
VL63/ER 32 L80	VL63/ER 32 L80	63	2-20	80	ER 32
VL63/ER 40 L85	VL63/ER 40 L85	63	3-30	85	ER 40

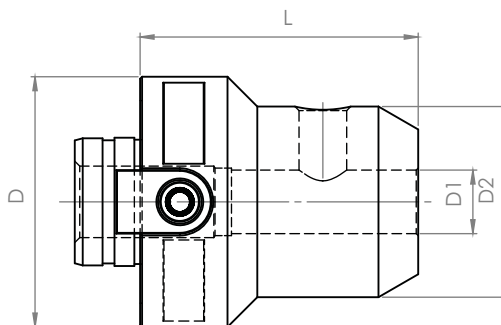


PRE-BALANCED



ATTACCHI WELDON MODULARI modular weldon holders

I MODULARI



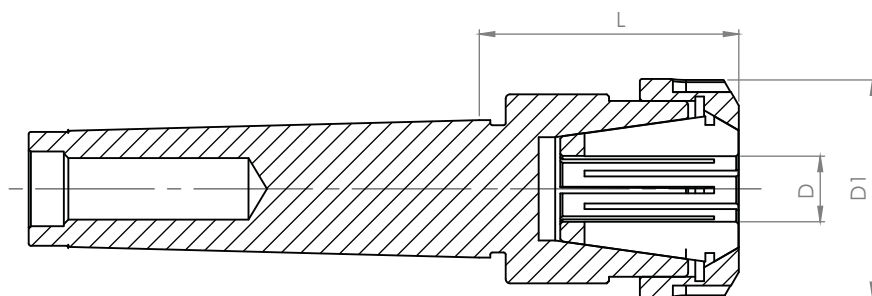
I MODULARI

NEW CODE	ex code	D	D1	D2	L
VL50/WE 06L50	VL50/WE 06L50	50	6	25	50
VL50/WE 08L50	VL50/WE 08L50	50	8	28	50
VL50/WE 10L50	VL50/WE 10L50	50	10	35	50
VL50/WE 12L60	VL50/WE 12L60	50	12	42	60
VL50/WE 16L60	VL50/WE 16L60	50	16	44	60
VL50/WE 20L60	VL50/WE 20L60	50	20	50	60
VL50/WE 25L80	VL50/WE 25L80	50	25	63	80
VL50/WE 32L80	VL50/WE 32L80	50	32	63	80
VL63/WE 06L60	VL63/WE 06L60	63	6	25	60
VL63/WE 08L60	VL63/WE 08L60	63	8	28	60
VL63/WE 10L70	VL63/WE 10L70	63	10	35	70
VL63/WE 12L70	VL63/WE 12L70	63	12	42	70
VL63/WE 16L70	VL63/WE 16L70	63	16	44	70
VL63/WE 20L70	VL63/WE 20L70	63	20	50	70
VL63/WE 25L80	VL63/WE 25L80	63	25	63	80
VL63/WE 32L80	VL63/WE 32L80	63	32	63	80



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PORTA PINZA
collet chucks



CONO MORSE DIN 228

CONO MORSE DIN 228

NEW CODE	ex code	K	D	D1	L	PINZA
CM2/ER 16L42	81 00 /02 16	CM 2	1-10	32	42	ER 16
CM2/ER 20L50	81 00 /02 20	CM 2	2-13	35	50	ER 20
CM2/ER 25L54	81 00 /02 25	CM 2	3-16	42	54	ER 25
CM3/ER 20L50	81 00 /03 20	CM 3	2-13	35	50	ER 20
CM3/ER 25L50	81 00 /03 25	CM 3	3-16	42	50	ER 25
CM3/ER 32L70	81 00 /03 32	CM 3	3-20	50	70	ER 32
CM3/ER 40L80	81 00 /03 40	CM 3	4-30	63	80	ER 40
CM4/ER 25L54	81 00 /04 25	CM 4	3-16	42	54	ER 25
CM4/ER 32L60	81 00 /04 32	CM 4	3-20	50	70	ER 32
CM4/ER 40L80	81 00 /04 40	CM 4	3-30	63	80	ER 40
CM5/ER 32L32	81 00 /05 32	CM 5	3-20	50	50	ER 32
CM5/ER 40L40	81 00 /05 40	CM 5	3-30	63	80	ER 40



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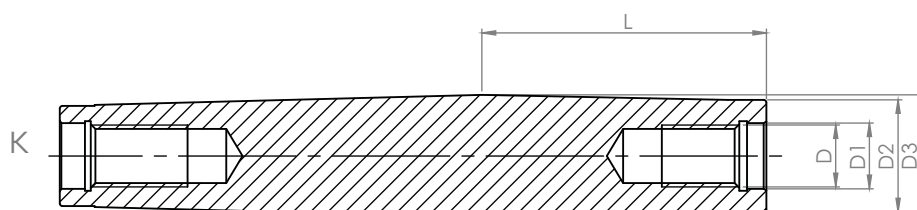


PRE-BALANCED



PORTA TESTINA screw-in endmills

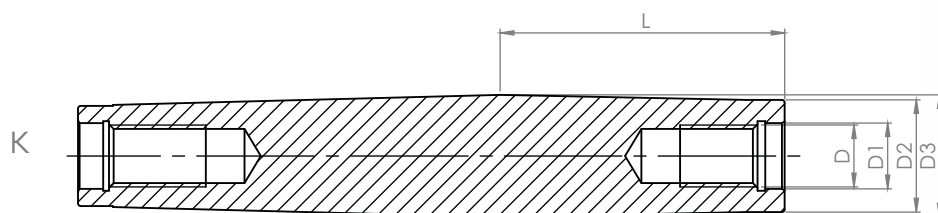
CONO MORSE DIN 228A



CONO MORSE DIN 228A

NEW CODE	ex code	C.M.	D	D1	D2	D3	L
CM02/PT8 L20	7702/02008	2	M 8	8.5	13	18	20
CM02/PT8 L40	7702/04008	2	M 8	8.5	13	18	40
CM02/PT8 L60	7702/06008	2	M 8	8.5	13	18	60
CM02/PT10 L20	7702/02010	2	M 10	10.5	18	18	20
CM02/PT10 L40	7702/04010	2	M 10	10.5	18	18	40
CM02/PT10 L60	7702/06010	2	M 10	10.5	18	18	60
CM03/PT8 L80	7703/08008	3	M 8	8.5	13	24	80
CM03/PT8 L100	7703/10008	3	M 8	8.5	13	24	100
CM03/PT10 L80	7703/08010	3	M 10	10.5	18	24	80
CM03/PT10 L100	7703/10010	3	M 10	10.5	18	24	100
CM03/PT12 L30	7703/03012	3	M 12	12.5	21	24	30
CM03/PT12 L45	7703/04012	3	M 12	12.5	21	24	45
CM03/PT12 L60	7703/06012	3	M 12	12.5	21	24	60
CM03/PT12 L75	7703/07512	3	M 12	12.5	21	24	75
CM03/PT12 L85	7703/08512	3	M 12	12.5	21	24	85
CM03/PT12 L95	7703/09512	3	M 12	12.5	21	24	95

PORTA TESTINA
screw-in endmills



CONO MORSE DIN 228A

CONO MORSE DIN 228A

NEW CODE	ex code	C.M.	D	D1	D2	D3	L
CM04/PT 12L120	7704/120 12	4	M 12	12.5	21	31.5	120
CM04/PT 16L35	7704/035 16	4	M 16	17	29	31.5	35
CM04/PT 16L50	7704/050 16	4	M 16	17	29	31.5	50
CM04/PT 16L65	7704/065 16	4	M 16	17	29	31.5	65
CM04/PT 16L80	7704/080 16	4	M 16	17	29	31.5	80
CM04/PT 16L95	7704/095 16	4	M 16	17	29	31.5	95
CM05/PT 16L115	7705/115 16	5	M 16	17	29	45	115
CM05/PT 16L145	7705/145 16	5	M 16	17	29	45	145

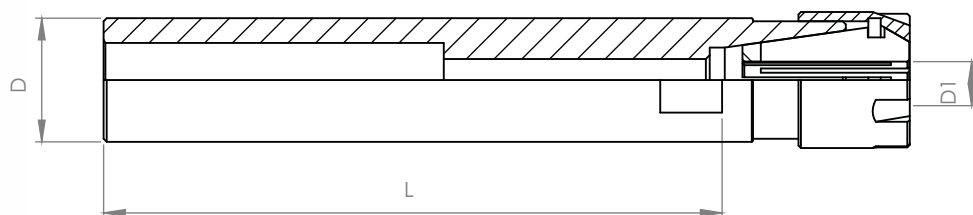


PRE-BALANCED



PORTA PINZA collet chucks

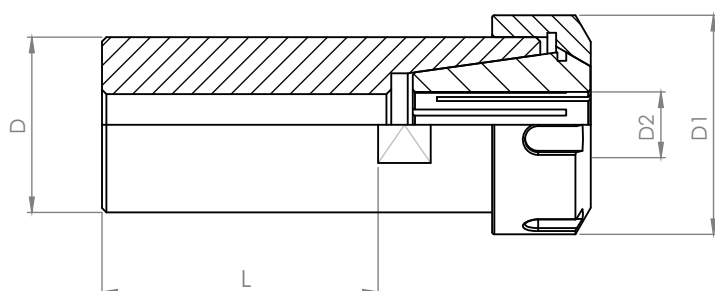
ATTACCO CILINDRICO GHIERA MINI



ATTACCO CILINDRICO GHIERA MINI

NEW CODE	ex code	K	D	D1	L	PINZA
CL16/ERM 11L100	8210/1611	16	16	1-7	100	ER 11
CL16/ERM 11L160	8211/1611	16	16	1-7	160	ER 11
CL16/ERM 16L100	8210/1616	16	22	1-10	100	ER 16
CL16/ERM 16L160	8211/1616	16	22	1-10	160	ER 16
CL20/ERM 16L100	8210/2016	20	22	1-10	100	ER 16
CL20/ERM 16L160	8211/2016	20	22	1-10	160	ER 16
CL20/ERM 16L200	NEW!	20	22	1-10	200	ER 16
CL20/ERM 20L100	8210/2020	20	28	2-13	100	ER 20
CL20/ERM 20L160	8211/2020	20	28	2-13	160	ER 20
CL20/ERM 20L200	NEW!	20	28	2-13	200	ER 20

PORTA PINZA
collet chucks



ATTACCO CILINDRICO GHIERA STANDARD

ATTACCO CILINDRICO GHIERA STANDARD

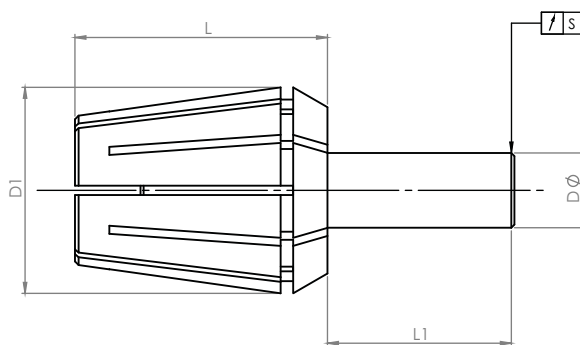
NEW CODE	ex code	D	D1	D2	L	PINZA
CL20/ER32L50	8200/2032	20	50	2-20	50	ER 32
CL20/ER32L100	8201/2032	20	50	2-20	100	ER 32
CL25/ER25L50	8200/2525	25	42	2-16	50	ER 25
CL25/ER25L100	8201/2525	25	42	2-16	100	ER 25
CL25/ER32L50	8200/2532	25	50	2-20	50	ER 32
CL25 ER40L60	8200/2540	25	63	3-30	60	ER 40
CL32/ER25L60	8200/25 25	32	42	2-16	60	ER 25
CL32/ER32L60	8200/32 32	32	50	2-20	60	ER 32
CL32/ER40L60	8200/32 40	32	63	3-30	60	ER 40
CL40/ER32L75	8200/40 32	40	50	2-20	75	ER 32
CL40/ER40L75	8200/40 40	40	63	3-30	75	ER 40



PRE-BALANCED



PINZE ER DIN 6499 collet chucks



DIN 6499

CODE	D	D1	L	PINZA	CODE	D	D1	L	PINZA
7011/0010	1-0,5				7016/0010	1-0,5			
7011/0015	1,5-1				7016/0015	1,5-1			
7011/0020	2-1,5				7016/0020	2-1			
7011/0025	2,5-3				7016/0025	2,5-1,5			
7011/0030	3-2,5				7016/0030	3-2			
7011/0035	3,5-3				7016/0040	4-3			
7011/0040	4-3,5	11,5	13,5	ER 11	7016/0050	5-4	17	27,5	ER 16
7011/0045	4,5-5				7016/0060	6-5			
7011/0050	5-4,5				7016/0070	7-6			
7011/0055	5,5-5				7016/0080	8-7			
7011/0060	6-5,5				7016/0090	9-8			
7011/0065	6,5-5				7016/0100	10-9			
7011/0070	7-6,5								

SERIE DI PINZE ER 11 IN BOX

7011/3-7 da D=1 a D=7 NR 13 PZ

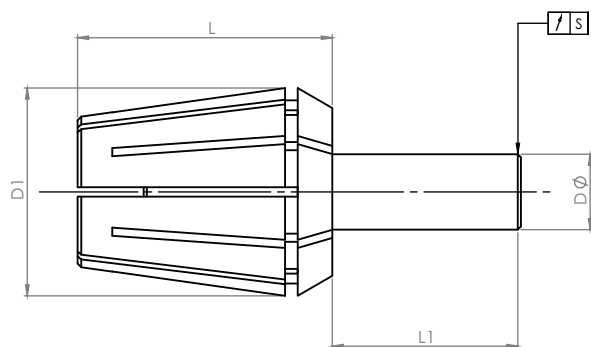
SERIE DI PINZE ER 16 IN BOX

7016/1-10 da D=1 a D=10 NR 10 PZ

CONCENTRICITA' / CONCENTRICITY

D		L	S	
Min	Max		standard	High precision
1	1,6	6	0,015	0,007
1,6	3	10	0,015	0,007
3	7	16	0,015	0,007
7	10	25	0,015	0,007
10	18	40	0,020	0,010

PINZE ER DIN 6499
collet chucks



DIN 6499

DIN 6499

CODE	D	D1	L	PINZA
7020/0010	1-0,5			
7020/0015	1,5-1			
7020/0020	2-1			
7020/0025	2,5-1,5			
7020/0030	3-2			
7020/0040	4-3			
7020/0050	5-4			
7020/0060	6-5			
7020/0070	7-6	21	31,5	ER 20
7020/0080	8-7			
7020/0090	9-8			
7020/0100	10-9			
7020/0110	11-10			
7020/0120	12-11			
7020/0130	13-10			

SERIE DI PINZE ER 20 IN BOX

7020/2-13 da D=2 a D=13 NR 12 PZ

CODE	D	D1	L	PINZA
7025/0010	1-0,5			
7025/0015	1,5-1			
7025/0020	2-1			
7025/0025	2,5-1,5			
7025/0030	3-2			
7025/0040	4-3			
7025/0050	5-4			
7025/0060	6-5			
7025/0070	7-6	26	34	ER 25
7025/0080	8-7			
7025/0090	9-8			
7025/0100	10-9			
7025/0110	11-10			
7025/0120	12-11			
7025/0130	13-10			
7025/0140	14-13			
7025/0150	15-14			
7025/0160	16-15			

SERIE DI PINZE ER 25 IN BOX

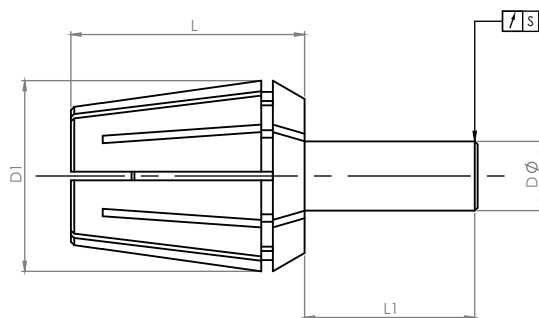
7016/2-16 da D=3 a D=16 nr 15 PZ



PRE-BALANCED



PINZE ER DIN 6499 collet chucks



DIN 6499

CODE D D1 L PINZA

7032/0020	2-1			
7032/0030	3-2			
7032/0040	4-3			
7032/0050	5-4			
7032/0060	6-5			
7032/0070	7-5			
7032/0080	8-7			
7032/0090	9-8			
7032/0100	10-6	33	40	ER 32
7032/0110	11-10			
7032/0120	12-11			
7032/0130	13-12			
7032/0140	14-13			
7032/0150	15-14			
7032/0160	16-15			
7032/0170	17-16			
7032/0180	18-17			
7032/0190	19-18			
7032/0200	20-19			

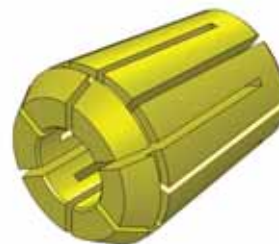
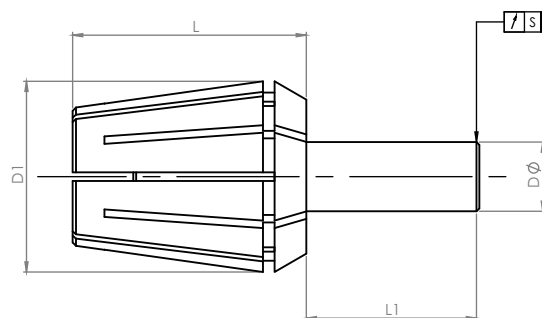
SERIE DI PINZE ER 32 IN BOX

7032/3-20 da D=3 a D=20 NR 18 PZ

CONCENTRICITA' / CONCENTRICITY

D		L	S	
			standard	High precision
1	1,6	6	0,015	0,007
1,6	3	10	0,015	0,007
3	7	16	0,015	0,007
7	10	25	0,015	0,007
10	18	40	0,020	0,010

PINZE ER DIN 6499
collet chucks



DIN 6499

DIN 6499

CODE	D	D1	L	PINZA	CODE	D	D1	L	PINZA
7040/0030	3-2				7050/0060	6-5			
7040/0040	4-3				7050/0070	7-6			
7040/0050	5-4				7050/0080	8-7			
7040/0060	6-5				7050/0090	9-8			
7040/0070	7-6				7050/0100	10-9			
7040/0080	8-7				7050/0110	11-10			
7040/0090	9-8				7050/0120	12-11			
7040/0100	10-9				7050/0130	13-12			
7040/0110	11-10				7050/0140	14-13			
7040/0120	12-11				7050/0150	15-14			
7040/0130	13-12				7050/0160	16-15			
7040/0140	14-13				7050/0170	17-16			
7040/0150	15-14	40	46	ER 40	7050/0180	18-17			
7040/0160	16-15				7050/0190	19-18			
7040/0170	17-16				7050/0200	20-19	52	60	ER 50
7040/0180	18-17				7050/0210	21-20			
7040/0190	19-18				7050/0220	22-21			
7040/0200	20-19				7050/0230	23-22			
7040/0210	21-20				7050/0240	24-23			
7040/0220	22-21				7050/0250	25-24			
7040/0230	23-22				7050/0260	26-25			
7040/0240	24-23				7050/0270	27-26			
7040/0250	25-24				7050/0280	28-29			
7040/0260	26-25				7050/0290	29-28			
7040/0280	28-29				7050/0300	30-29			
7040/0290	29-28				7050/0310	31-30			
7040/0300	30-29				7050/0320	32-31			
					7050/0330	33-32			
					7050/0340	34-33			

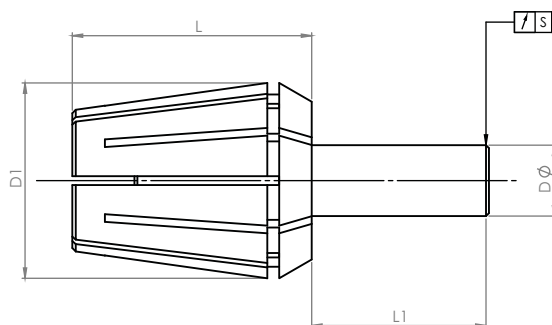


PRE-BALANCED



PINZE ER DIN 6499 ALTA PRECISIONE high precision collet chucks

DIN 6499



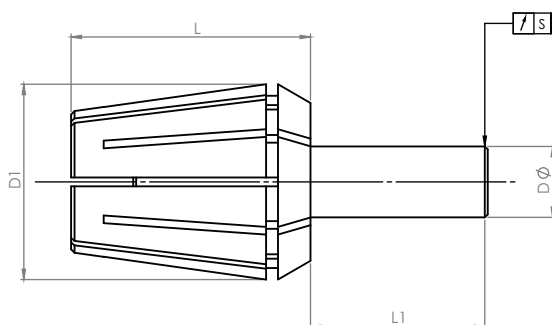
DIN 6499 ALTA PRECISIONE

CODE	D	D1	L	PINZA	CODE	D	D1	L	PINZA
7116/0010	1-0,5				7120/0010	1-0,5			
7116/0015	1,5-1				7120/0015	1,5-1			
7116/0020	2-1				7120/0020	2-1			
7116/0025	2,5-1,5				7120/0025	2,5-1,5			
7116/0030	3-2				7120/0030	3-2			
7116/0040	4-3				7120/0040	4-3			
7116/0050	5-4	17	27,5	ER16	7120/0050	5-4			
7116/0060	6-5				7120/0060	6-5			
7116/0070	7-6				7120/0070	7-6	21	31,5	ER 20
7116/0080	8-7				7120/0080	8-7			
7116/0090	9-8				7120/0090	9-8			
7116/0100	10-9				7120/0100	10-9			
					7120/0110	11-10			
					7120/0120	12-11			
					7120/0130	13-10			

CONCENTRICITA' / CONCENTRICITY

D		L	S	
Min	Max		standard	High precision
1	1,6	6	0,015	0,007
1,6	3	10	0,015	0,007
3	7	16	0,015	0,007
7	10	25	0,015	0,007
10	18	40	0,020	0,010

PINZE ER DIN 6499 ALTA PRECISIONE high precision collet chucks



DIN 6499

DIN 6499 ALTA PRECISIONE

CODE	D	D1	L	PINZA	CODE	D	D1	L	PINZA
7125/0010	1-0,5				7132/0020	2-1			
7125/0015	1,5-1				7132/0030	3-2			
7125/0020	2-1				7132/0040	4-3			
7125/0025	2,5-1,5				7132/0050	5-4			
7125/0030	3-2				7132/0060	6-5			
7125/0040	4-3				7132/0070	7-5			
7125/0050	5-4				7132/0080	8-7			
7125/0060	6-5				7132/0090	9-8			
7125/0070	7-6				7132/0100	10-6			
7125/0080	8-7	26	34	ER 25	7132/0110	11-10			
7125/0090	9-8				7132/0120	12-11	33	40	ER 32
7125/0100	10-9				7132/0130	13-12			
7125/0110	11-10				7132/0140	14-13			
7125/0120	12-11				7132/0150	15-14			
7125/0130	13-10				7132/0160	16-15			
7125/0140	14-13				7132/0170	17-16			
7125/0150	15-14				7132/0180	18-17			
7125/0160	16-15				7132/0190	19-18			
					7132/0200	20-19			

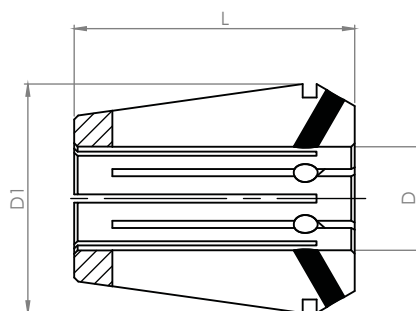


PRE-BALANCED



PINZE TIPO ER DIN 6499 A TENUTA DEL REFRIGERANTE sealed tap collets

DIN 6499 A TENUTA



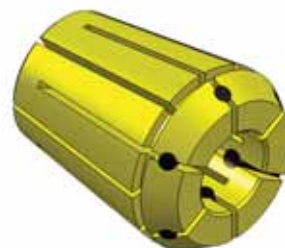
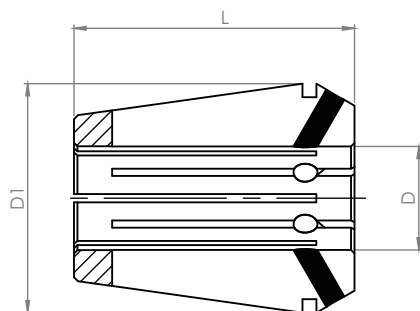
PINZE ER DIN 6499 A TENUTA

CODE	D	D1	L	PINZA	CODE	D	D1	L	PINZA
7016/0030T	3				7120/ 0030	3-2			
7016/0040T	4				7120/ 0040	4-3			
7016/0050T	5				7120/ 0050	5-4			
7016/0060T	6	17	27,5	ER 16	7120/ 0060	6-5			
7016/0070T	7				7120/ 0070	7-6			
7016/0080T	8				7120/ 0080	8-7	21	31,5	ER20
7016/0090T	9				7120/ 0090	9-8			
7016/0100T	10				7120/ 0100	10-9			
					7120/ 0110	11-10			
					7120/ 0120	12-11			
					7120/ 0130	13-10			

CONCENTRICITA' / CONCENTRICITY

D		L	S	
Min	Max		standard	High precision
1	1,6	6	0,015	0,007
1,6	3	10	0,015	0,007
3	7	16	0,015	0,007
7	10	25	0,015	0,007
10	18	40	0,020	0,010

PINZE TIPO ER DIN 6499 A TENUTA DEL REFRIGERANTE
sealed tap collets



DIN 6499 A TENUTA

PINZE ER DIN 6499 A TENUTA

CODE	D	D1	L	PINZA	CODE	D	D1	L	PINZA
7025/0030T	3				7032/0030T	3			
7025/0040T	4				7032/0040T	4			
7025/0050T	5				7032/0050T	5			
7025/0060T	6				7032/0060T	6			
7025/0070T	7				7032/0070T	7			
7025/0080T	8				7032/0080T	8			
7025/0090T	9				7032/0090T	9			
7025/0100T	10				7032/0100T	10			
7025/0110T	11	26	34	ER25	7032/0110T	11			
7025/0120T	12				7032/0120T	12	33	40	ER32
7025/0130T	13				7032/0130T	13			
7025/0140T	14				7032/0140T	14			
7025/0150T	15				7032/0150T	15			
7025/0160T	16				7032/0160T	16			
					7032/0170T	17			
					7032/0180T	18			
					7032/0190T	19			
					7032/0200T	20			

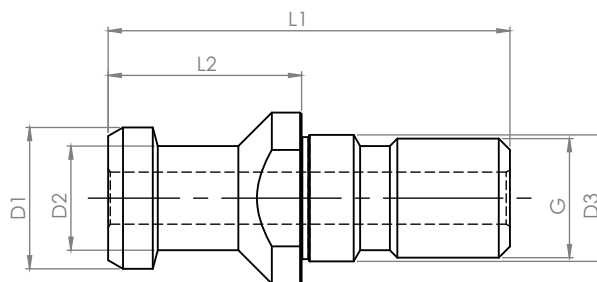


PRE-BALANCED



CODOLI DI AGGANCIO DIN 69872 pull stud din 69872

DIN 69872



DIN 69872

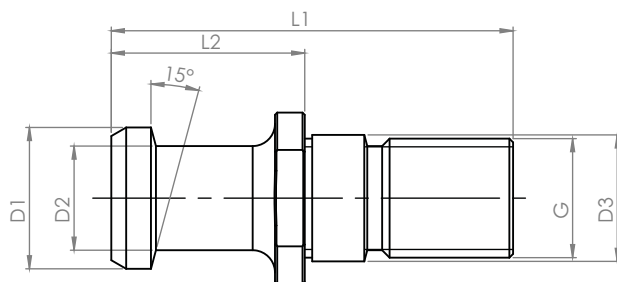
CODOLI DI AGGANCIO DIN 69872 FORMA A FORATI

CODICE	G	d1	d2	d3	L1	L2
9272/4015F	M 16	19	14	17	54	26
9272/4515F	M 20	23	17	24	65	30
9272/5015F	M 24	28	21	25	74	34

CODOLI DI AGGANCIO DIN 69872 FORMA A SENZA FORO

CODICE	G	d1	d2	d3	L1	L2	
9272/3015SF	M 12	13	9	13	44	24	without OR-ring
9272/4015SF	M 16	19	14	17	54	26	
9272/4515SF	M 20	23	17	24	65	30	
9272/5015SF	M 24	28	21	25	74	34	

CODOLI DI AGGANCIO ISO 7388/2A
pull stud iso 7388/2A



ISO 7388/2A

ISO 7388/2A

CODOLI DI AGGANCIO ISO 7388/2A A FORATI

CODICE	G	d1	d2	d3	L1	L2
9287/4015F	M 16	19	14	17	54	26
9287/5015F	M 24	28	21	25	74	34

CODOLI DI AGGANCIO ISO 7388/2A A SENZA FORO

CODICE	G	d1	d2	d3	L1	L2
9287/4015SF	M 16	19	14	17	54	26
9287/5015SF	M 24	28	21	25	74	34

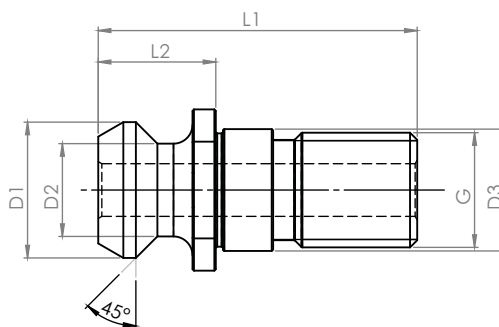


PRE-BALANCED



CODOLI DI AGGANCIO ISO 7388/2B pull stud iso 7388/2B

ISO 7388/2B

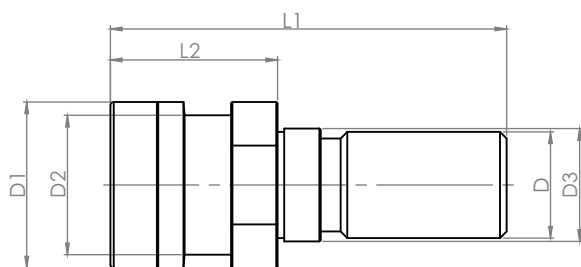


ISO 7388/2B A FORATI

ISO 7388/2B A SENZA FORO

CODE	G	d1	d2	d3	L1	L2	CODE	G	d1	d2	d3	L1	L2
9288/4015F	M 16	18,95	12,95	17	44,5	16,4	9288/4015SF	M 16	18,95	12,95	17	44,5	16,4
9288/5015F	M 24	29,10	19,60	25	65,50	25,5	9288/5015SF	M 24	29,10	19,60	25	65,50	25,5

CODOLI DI AGGANCIO OTT pull stud iso OTT



OTT

CODOLI DI AGGANCIO OTT FORATI

CODE	G	d1	d2	d3	L1	L2
9289/4015F	M 16	19	14	17	54	26
9289/5015F	M 24	28	21	25	74	34

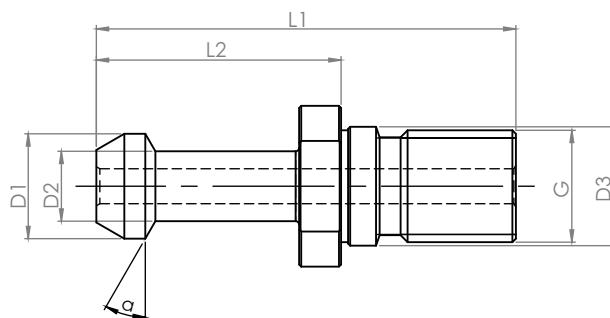


PRE-BALANCED



CODOLI DI AGGANCIO MAS 403 BT pull stud mas 403 bt

MAS 403 BT

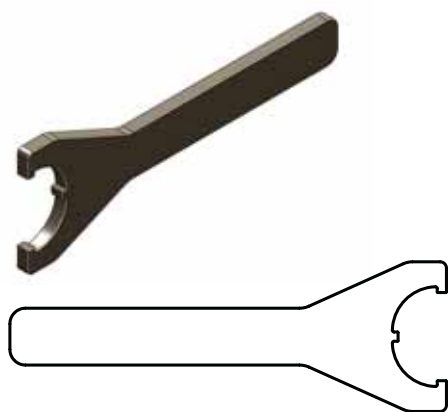


MAS 403 BT FORATI

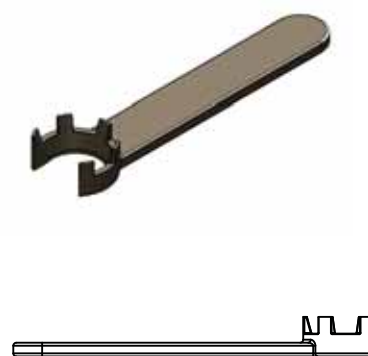
MAS 403 BT SENZA FORO

CODE	G	d1	d2	d3	L1	L2	a	CODE	G	d1	d2	d3	L1	L2	a
9300/4045F	M 16	15	10	17	60	35	45°	9300/4045SF	M 16	15	10	17	60	35	45°
9300/4060F	M 16	15	10	17	60	35	60°	9300/4060SF	M 16	15	10	17	60	35	60°
9300/4090F	M 16	15	10	17	60	35	90°	9300/4090SF	M 16	15	10	17	60	35	90°
9300/5045F	M 24	23	17	25	85	45	45°	9300/5045SF	M 24	23	17	25	85	45	45°
9300/5060F	M 24	23	17	25	85	45	60°	9300/5060SF	M 24	23	17	25	85	45	60°
9300/5090F	M 24	23	17	25	85	45	90°	9300/5090SF	M 24	23	17	25	85	45	90°

CHIAVI PER GHIERE wrenches for nut



CHIAVI PER GHIERE STANDARD



CHIAVI PER GHIERE MINI

CHIAVI PER GHIERE

CODE	GHIERA
7400/0016	ER 16
7400/0020	ER 20
7400/0025	ER 25
7400/0032	ER 32
7400/0040	ER 40
7400/0050	ER 50

CODE	GHIERA
7500/0011	ER 11
7500/0016	ER 16
7500/0020	ER 20
7500/0025	ER 25

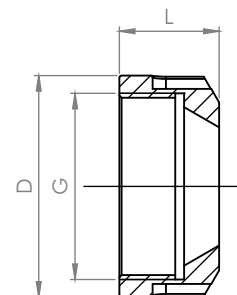
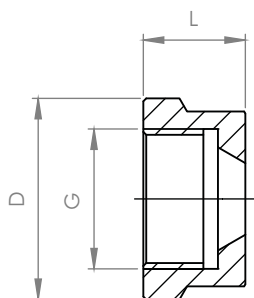


PRE-BALANCED



GHIERE clamping nuts

CHIAVI PER GHIERE



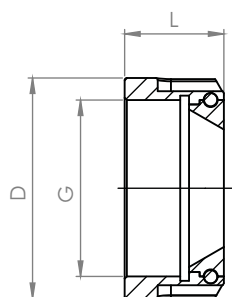
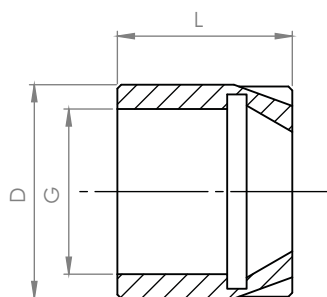
GHIERA ESAGONALE DIN 6499

CODE	D	L	G	PINZA
7100/0011	19	11.3	M 14x0.75	ER 11
7100/0016	28	17	M 22x1,5	ER 16
7100/0020	34	19	M 25x1,5	ER 20

GHIERA STANDARD DIN 6499

CODE	D	L	G	PINZA
7400/0016	32	17.5	M 22x1.5	ER 16
7400/0020	35	19	M 25x1.5	ER 20
7400/0025	42	20	M 32x1.5	ER 25
7400/0032	50	22	M 40x1.5	ER 32
7400/0040	63	25	M 50x1.5	ER 40
7400/0050	78	35	M 64x2	ER 50

GHIERE
clamping nuts



GHIERA STANDARD DIN 6499 TIPO MINI

GHIERA CON CUSCINETTO DIN 6499

CODE	D	L	G	L
7300/0011	16	11	M 13x0.75	ER 11
7300/0016	22	17	M 19x1	ER 16
7300/0020	28	19	M 24x1	ER 20
7300/0025	35	20	M 30x1	ER 25

CODE	D	L	G	PINZA
7400/0016SP	32	17.5	M 22x1.5	ER 16
7400/0020SP	35	19	M 25x1.5	ER 20
7400/0025SP	42	20	M 32x1.5	ER 25
7400/0032SP	50	22	M 40x1.5	ER 32
7400/0040SP	63	25	M 50x1.5	ER 40

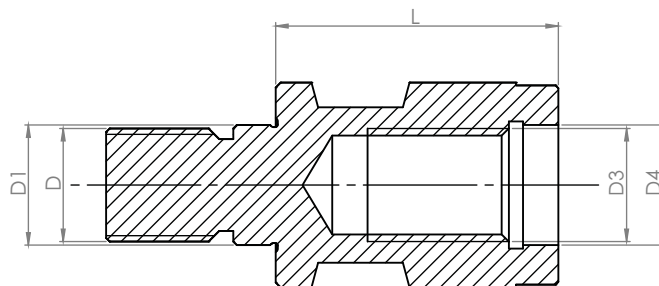


PRE-BALANCED



PROLUNGHE PORTA TESTINA screw-in end mill extension

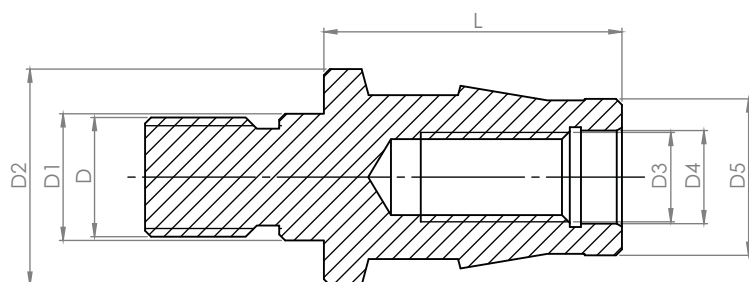
PROLUNGHE



PROLUNGHE

NEW CODE	ex code	D	D1	D2	D3	D4	L
PT06/PPT 06L30	7106/03006	M 6	6,5	10	M 6	6,5	30
PT06/PPT 06L60	7106/06006	M 6	6,5	10	M 6	6,5	60
PT08/PPT 08L30	7108/03008	M 8	8,5	13	M 8	8,5	30
PT08/PPT 08L60	7108/06008	M 8	8,5	13	M 8	8,5	60
PT10/PPT 10L30	7110/03010	M 10	10,5	18	M 10	10,5	30
PT10/PPT 10L60	7110/06010	M 10	10,5	18	M 10	10,5	60
PT12/PPT 12L50	7112/05012	M 12	12,5	21	M 12	12,5	50
PT12/PPT 12L80	7112/08012	M 12	12,5	21	M 12	12,5	80
PT16/PPT 16L40	7116/04016	M 16	17	29	M 16	17	40
PT16/PPT 16L90	7116/09016	M 16	17	29	M 16	17	90

RIDUZIONI PORTA TESTINA
screw-in end mill adapters



RIDUZIONI

RIDUZIONI

NEW CODE	ex code	D	D1	D2	D3	D4	D5	L
PT08/RPT 06L25	7208/02506	M 8	8,5	12	M 6	6,5	10	25
PT10/RPT 08L30	7210/03008	M 10	10,5	18	M 8	8,5	13	30
PT12/RPT 10L35	7212/03510	M 12	12,5	21	M 10	10,5	18	35
PT16/RPT 12L40	7216/04012	M 16	17	29	M 12	12,5	21	40

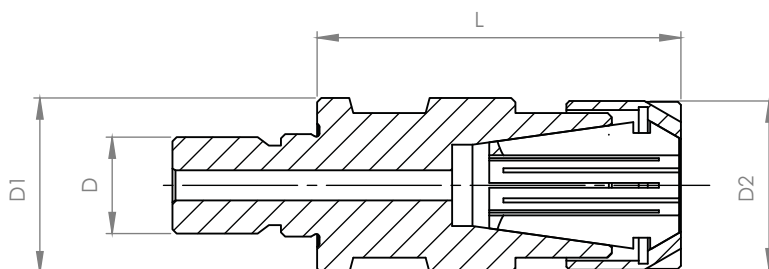


PRE-BALANCED



RIDUZIONI PORTA PINZA collet chuck adapters

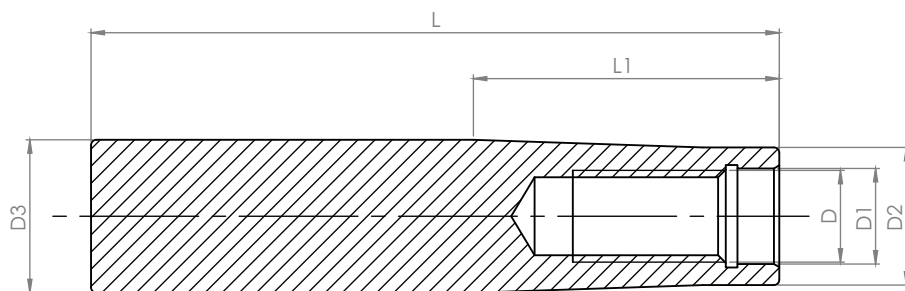
RIDUZIONI PORTA PINZA



RIDUZIONI PORTA PINZA

NEW CODE	ex code	ER	D	D1	D2	L
PT 10/ERM 11 L35	73 10/035 11	ER 11	M 10	16	18	35
PT 12/ERM 16 L40	73 12/040 16	ER 16	M 12	22	22	40
PT 16/ERM 20 L60	73 16/060 20	ER 20	M 16	28	28	60

ATTACCO CILINDRICO DIN 1835
extension din 1835



ATTACCO CILINDRICO

ATTACCO CILINDRICO

NEW CODE	ex code	D	D1	D2	D3	L	L1
CL16/PT 08L25	7416/02508	M 8	8,5	13	16	25	73
CL20/PT 10L30	7420/03010	M 10	10,5	18	20	30	80
CL25/PT 12L30	7420/03012	M 12	12,5	21	25	35	86
CL32/PT 16L40	7432/04016	M 16	17	29	32	40	110

TASSELLI DI TRASCINAMENTO


PORTA FRESA		b x h x l
TASS/PF 16	Ø 16	8 x 7 x 12
TASS/PF 22	Ø 22	10 x 10 x 20
TASS/PF 22 RID	Ø 22	8 x 10 x 20
TASS/PF 27	Ø 27	12 x 12 x 20
TASS/PF 27 RID	Ø 27	8 x 12 x 20
TASS/PF 32	Ø 32	14 x 14 x 22
TASS/PF 32 RID	Ø 32	9 x 14 x 22
TASS/PF 40	Ø 40	16 x 16 x 25
TASS/PF 40 RID	Ø 40	10 x 16 x 25

VITI+RONDELLA PER BLOCCAGGIO FRESE


	PORTA FRESA
VITE/PF 16	Ø 16
VITE/PF 22	Ø 22
VITE/PF 27	Ø 27
VITE/PF 32	Ø 32
VITE/PF 40	Ø 40

VITI PER MANDRINO TIPO WELDON


	WELDON
VITE/WE 6	Ø 6
VITE/WE 8	Ø 8
VITE/WE 10	Ø 10
VITE/WE 12	Ø 12
VITE/WE 14	Ø 14
VITE/WE 16	Ø 16
VITE/WE 18	Ø 18
VITE/WE 20	Ø 20
VITE/WE 25	Ø 25
VITE/WE 32	Ø 32
VITE/WE 40	Ø 40

OFFICINE VALBUSA snc
Porto Mantovano (MANTOVA)
Via Bachelet n. 51-53

ph. +39 0376 398496
valbusa@valbusa.it



www.valbusa.it