

DIN 2080

DIN 2080



PORTAFRESE FISSI
SHELL END MILL HOLDERS



PORTAFRESE COMBINATI
COMBI SHELL END MILL HOLDERS



CONO MORSE PUNTE/ FRESE
MORSE TAPER FOR DRILLS/MILLS



PORTAPINZA ER DIN6499
COLLET CHUCK FOR ER DIN6499



**PORTA PUNTE AUTOSERRANTI
CON CHIAVE A SETTORE**
DRILL CHUCKS WITH HOOK WRENCH



PORTAPINZA EOC DIN6388
COLLET CHUCK FOR EOC DIN6388



STELO TENERO LAVORABILE
BLANK ARBORS



PER FRESE WELDON
END MILL HOLDERS



BARRA DI CONTROLLO
TEST ARBORS

CARATTERISTICHE / SPECIFICATION / CARACTÉRISTIQUES/ TECHNISCHE DATEN

CARATTERISTICHE TECNICHE

- Costruiti in acciaio certificato in barre.
- Eseguiti trattamenti termici da fornitori certificati ISO 9001.
- Rettificati di precisione esternamente, internamente e nelle filettature delle ghiere chiudipinza.
- Controllati con strumenti di misura certificati.
- La tolleranza di precisione dei coni ISO è AT2.
- L'errore di concentricità massimo tra il cono e la sede utensile è di 0.003mm.

CARACTÉRISTIQUES

- Fabriqués en bar d'acier certifié.
- Réalisation du traitement thermique par des fournisseurs certifiés ISO 9001.
- Rectification de précision extérieurement, intérieurement et dans les filetages des écrous serre-pince.
- Contrôlés par des instruments de mesure certifiés.
- La tolérance de précision des cônes ISO est AT2.
- L'erreur de concentricité maximum entre le cône et le siège de l'outil est de 0.003 mm.

TECHNICAL FEATURES

- Manufactured with certificate steel.
- Heat treatments are performed by certified suppliers ISO 9001.
- Precision ground on shanks, inside tapers and collet nut threads.
- Tested with high precision inspection and ganging equipment.
- Taper accuracy of ISO SHANKS lower than AT2.
- The maximum error of concentricity between the cone and the seat of tool is 0.003mm.

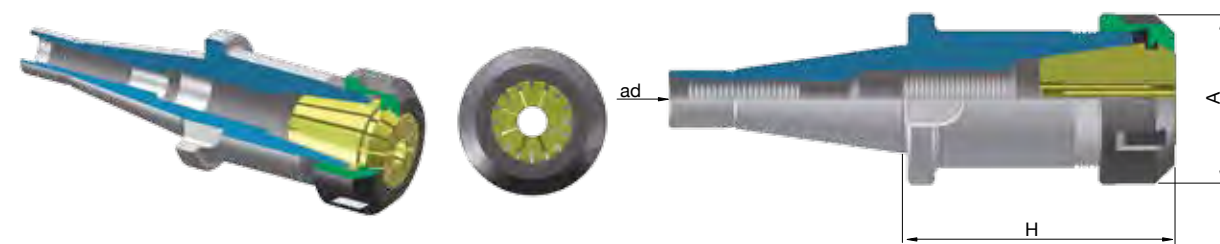
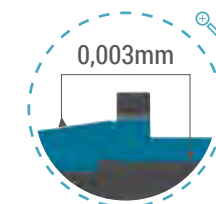
MERKMALE

- Gebaut aus zertifiziertem Stabstahl
- Warmbehandlungen von Lieferanten mit Zeugnis ISO 9001
- Genauigkeitsgeschliffen aussen, innen und in den Gewinden der Spannmutter für den Zangenverschluss
- Geprüft mit zertifizierten Messinstrumente
- Die Präzisionstoleranz der Kone ISO ist AT2
- Die max konzentrische Abweichung zwischen Konus und Werkzeugsitz ist 0.003 mm



PORTAPINZA ER DIN6499

COLLET CHUCK FOR ER DIN6499

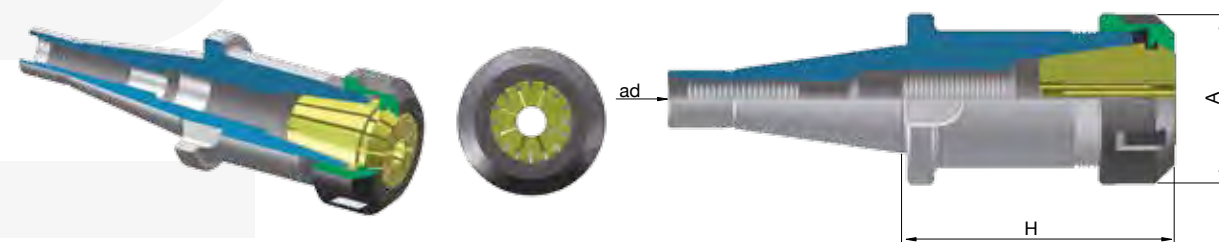


PORTAPINZA ER - COLLET CHUCK ER -ISO30

Cod.	TYPE	A	AT2 G6.3/12000	
			CAPACITÀ RANGE	H
ISO.30.50.ER25	ISO30 H50 ERX25	42	1 ÷ 16 mm	50
ISO.30.50.ER32	ISO30 H50 ERX32	50	2 ÷ 20 mm	50
ISO.30.70.ER40	ISO30 H70 ERX40	63	3 ÷ 30 mm	70

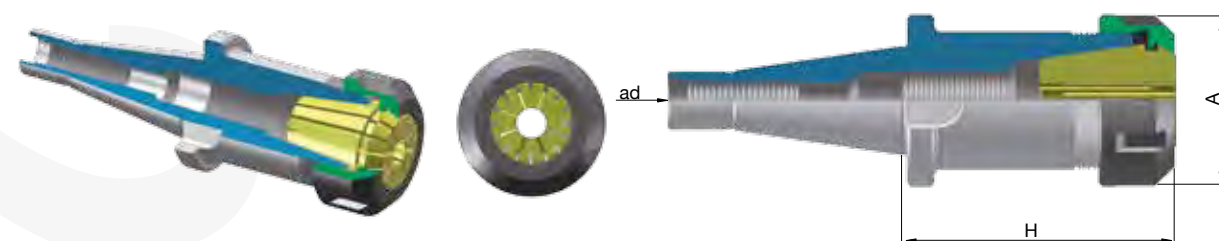
PORTAPINZA EOC DIN6388

COLLET CHUCK FOR ER DIN6388



PORTAPINZA ER - COLLET CHUCK - ISO40

Cod.	TYPE	A	G6.3/12000		
			AT2	CAPACITÀ RANGE	
ISO.40.47.ER16	ISO40 H47 ERX16	32		1 ÷ 10 mm	47
ISO.40.47.ER25	ISO40 H47 ERX25	42		1 ÷ 16 mm	47
ISO.40.49.ER32	ISO40 H49 ERX32	50		2 ÷ 20 mm	49
ISO.40.70.ER40	ISO40 H70 ERX40	63		3 ÷ 30 mm	80



PORTAPINZA ER - COLLET CHUCK - ISO50

Cod.	TYPE	A	G6.3/12000		
			AT2	CAPACITÀ RANGE	
ISO.50.80.ER25	ISO50 H80 ERX25	42		1 ÷ 16 mm	80
ISO.50.69.ER32	ISO50 H69 ERX32	50		2 ÷ 20 mm	69
ISO.50.63.ER40	ISO50 H63 ERX40	63		3 ÷ 30 mm	63



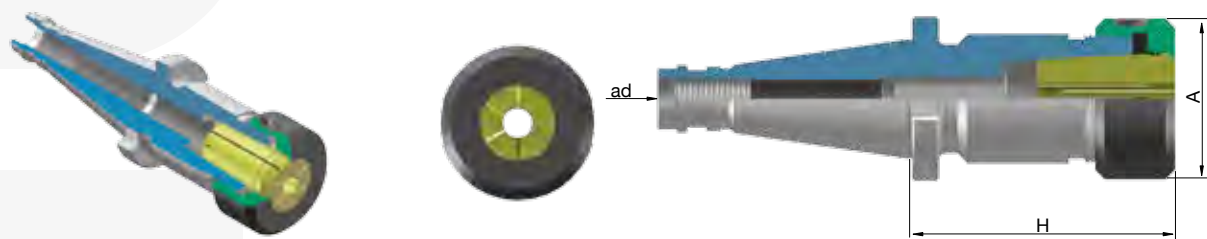
PORTAPINZA PER EOC - COLLET CHUCK FOR EOC - ISO30

Cod.	TYPE	CAPACITÀ RANGE	G6.3/12000	
			AT2	A
ISO.30.50.EOC16	ISO30 H50 EOC16	2 - 16 mm	43	50
ISO.30.80.EOC25	ISO30 H80 EOC25	2 - 25 mm	60	80



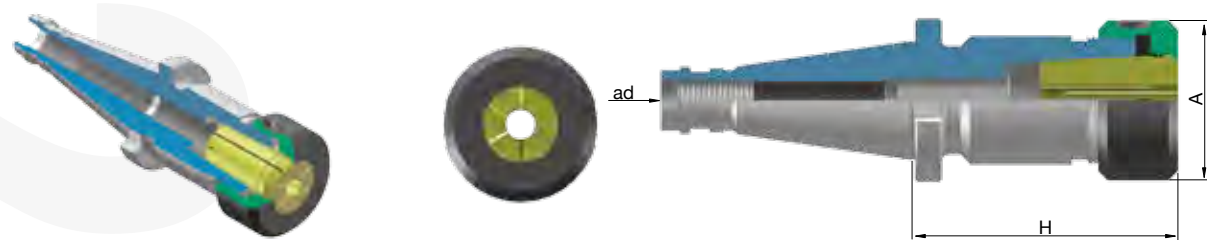
PER FRESE WELDON

END MILL HOLDERS



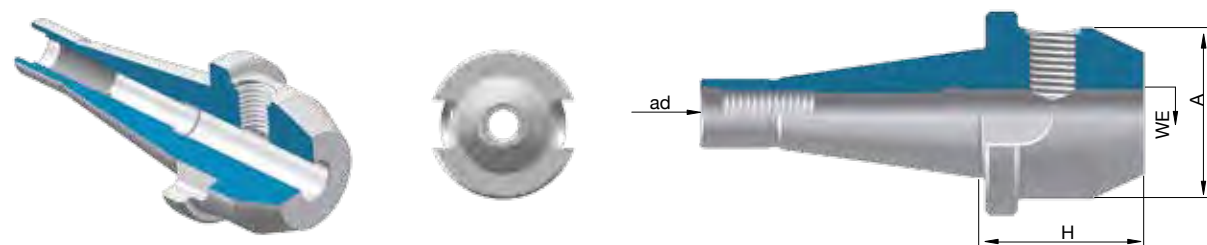
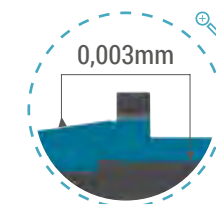
PORTAPINZA PER EOC - COLLET CHUCK FOR EOC - ISO40

Cod.	TYPE	CAPACITÀ RANGE	G6.3/12000	
			A	H
ISO.40.55.EOC16	ISO40 H55 EOC16	2 - 16 mm	43	55
ISO.40.66.EOC25	ISO40 H66 EOC25	2 - 25 mm	60	66
ISO.40.95.EOC32	ISO40 H95 EOC32	4 - 32 mm	72	95



PORTAPINZA PER EOC - COLLET CHUCK FOR EOC - ISO50

Cod.	TYPE	CAPACITÀ RANGE	G6.3/12000	
			A	H
ISO.50.71.EOC25	ISO50 H71 EOC25	2 - 25 mm	60	71
ISO.50.73.EOC32	ISO50 H73 EOC32	4 - 32 mm	72	73

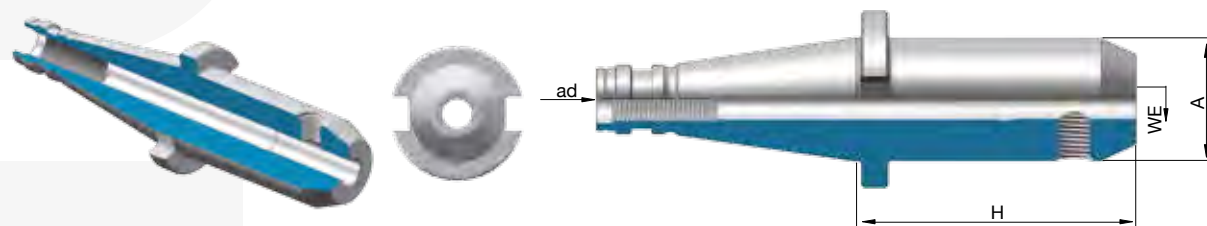


PER FRESE WELDON - END MILL HOLDERS - ISO30

Cod.	TYPE	G6.3/12000		
		A	H	WE
ISO.30.40.WE6	ISO30 H40 WE6	25	40	6
ISO.30.40.WE8	ISO30 H40 WE8	28	40	8
ISO.30.40.WE10	ISO30 H40 WE10	35	40	10
ISO.30.40.WE12	ISO30 H40 WE12	42	40	12
ISO.30.50.WE14	ISO30 H50 WE14	44	50	14
ISO.30.50.WE16	ISO30 H50 WE16	48	50	16
ISO.30.50.WE18	ISO30 H50 WE18	50	50	18
ISO.30.63.WE20	ISO30 H63 WE20	52	63	20

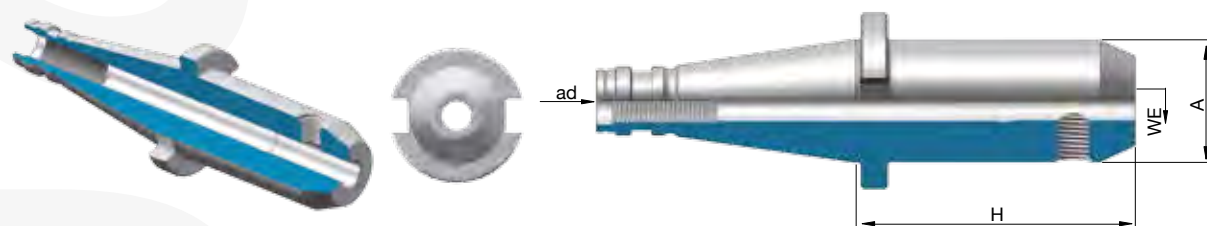
PORTAFRESE FISSI

SHELL END MILL HOLDERS



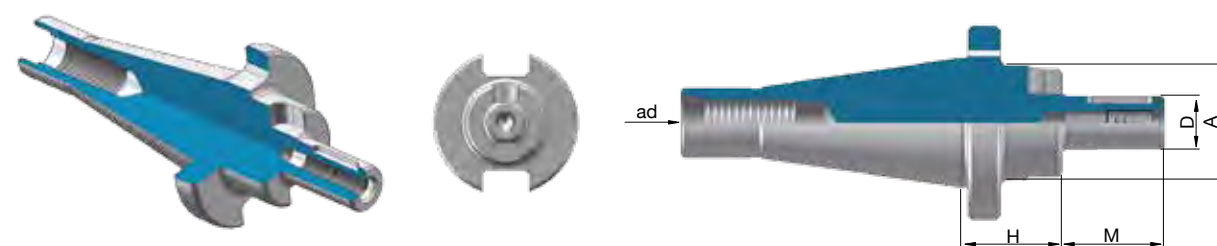
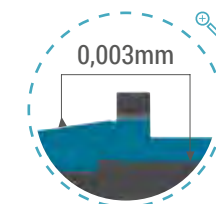
PER FRESE WELDON -END MILL HOLDERS - ISO40

Cod.	TYPE	A	H	WE	G6.3/12000	
					AT2	
ISO.40.50.WE6	ISO40 H50 WE6	25	50	6		
ISO.40.50.WE8	ISO40 H50 WE8	28	50	8		
ISO.40.50.WE10	ISO40 H50 WE10	35	50	10		
ISO.40.50.WE12	ISO40 H50 WE12	42	50	12		
ISO.40.50.WE14	ISO40 H50 WE14	44	50	14		
ISO.40.63.WE16	ISO40 H63 WE16	48	63	16		
ISO.40.63.WE18	ISO40 H63 WE18	50	63	18		
ISO.40.63.WE20	ISO40 H63 WE20	52	63	20		
ISO.40.80.WE25	ISO40 H80 WE25	63	80	25		
ISO.40.80.WE32	ISO40 H80 WE32	72	80	32		
ISO.40.90.WE40	ISO40 H90 WE40	90	90	40		



PER FRESE WELDON -END MILL HOLDERS - ISO50

Cod.	TYPE	A	H	WE	G6.3/12000	
					AT2	
ISO.50.63.WE6	ISO50 H63 WE6	25	63	6		
ISO.50.63.WE8	ISO50 H63 WE8	28	63	8		
ISO.50.63.WE10	ISO50 H63 WE10	35	63	10		
ISO.50.63.WE12	ISO50 H63 WE12	42	63	12		
ISO.50.63.WE14	ISO50 H63 WE14	44	63	14		
ISO.50.63.WE16	ISO50 H63 WE16	48	63	16		
ISO.50.63.WE18	ISO50 H63 WE18	50	63	18		
ISO.50.63.WE20	ISO50 H63 WE20	52	63	20		
ISO.50.80.WE25	ISO50 H80 WE25	65	80	25		
ISO.50.80.WE32	ISO50 H80 WE32	72	80	32		
ISO.50.90.WE40	ISO50 H90 WE40	90	90	40		

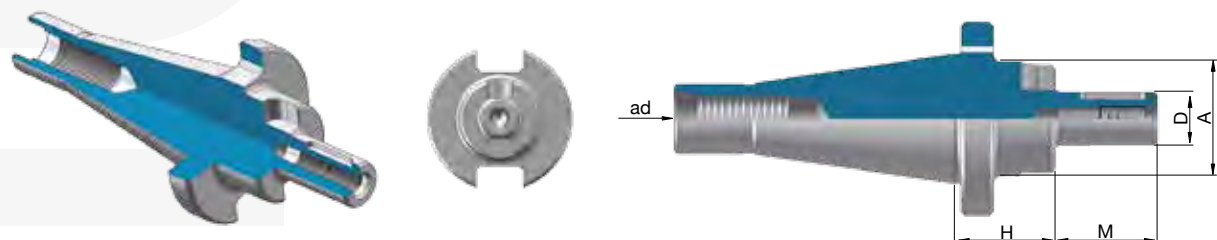


PORTAFRESE FISSO - SHELL END MILL HOLDERS - ISO30

Cod.	TYPE	A	M	H	D	G6.3/12000	
						AT2	
ISO.30.35.D16S	ISO30 H35 D16S	32	17	35	16		
ISO.30.35.D22S	ISO30 H35 D22S	40	19	35	22		
ISO.30.35.D27S	ISO30 H35 D27S	48	21	35	27		
ISO.30.35.D32S	ISO30 H35 D32S	58	24	35	32		

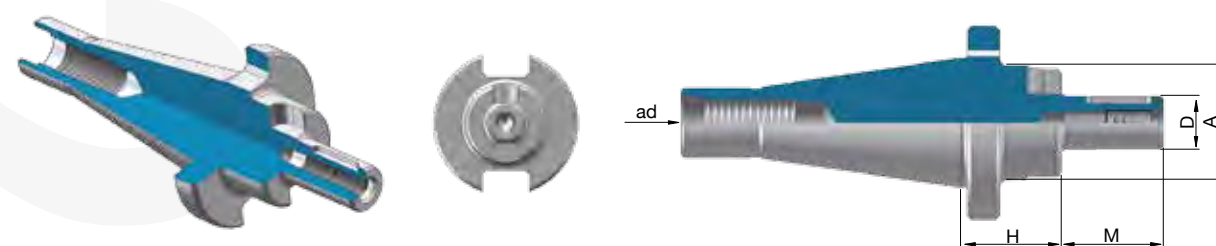
PORTAFRESE COMBINATI

COMBI SHELL END MILL HOLDERS



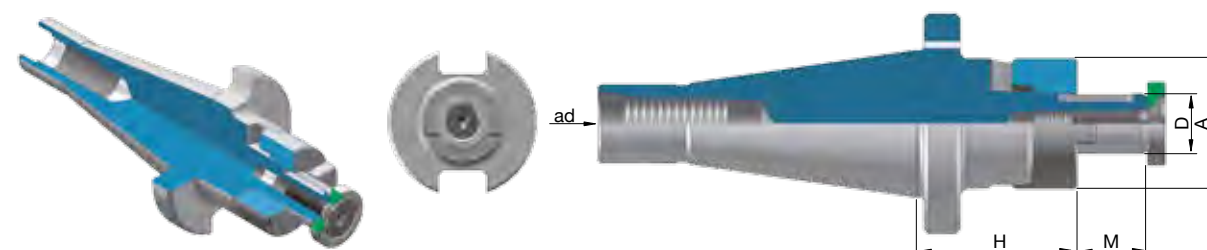
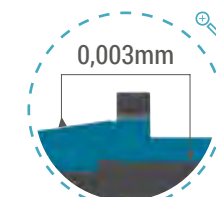
PORTAFRESE FISSO - SHELL END MILL HOLDERS - ISO40

Cod.	TYPE	A	M	AT2		G6.3/12000	
				H	D		
ISO.40.30.D16S	ISO40 H30 D16S	38	17	30	16		
ISO.40.35.D22S	ISO40 H35 D22S	48	19	35	22		
ISO.40.35.D27S	ISO40 H35 D27S	58	21	35	27		
ISO.40.35.D32S	ISO40 H35 D32S	63	24	35	32		
ISO.40.35.D40S	ISO40 H35 D40S	79	27	35	40		



PORTAFRESE FISSO - SHELL END MILL HOLDERS - ISO50

Cod.	TYPE	A	M	AT2		G6.3/12000	
				H	D		
ISO.50.45.D16S	ISO50 H45 D16S	38	17	45	16		
ISO.50.45.D22S	ISO50 H45 D22S	48	19	45	22		
ISO.50.45.D27S	ISO50 H45 D27S	58	21	45	27		
ISO.50.45.D32S	ISO50 H45 D32S	65	24	45	32		
ISO.50.45.D40S	ISO50 H45 D40S	80	27	45	40		

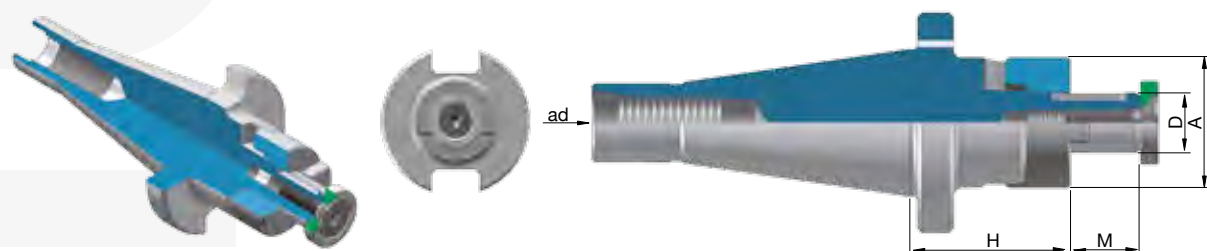


PORTAFRESE COMBINATO - COMBI SHELL END MILL HOLDERS - ISO30

Cod.	TYPE	A	M	AT2		G6.3/12000	
				H	D		
ISO.30.35.D16C	ISO30 H35 D16C	32	17	35	16		
ISO.30.35.D22C	ISO30 H35 D22C	40	19	35	22		
ISO.30.35.D27C	ISO30 H35 D27C	48	21	35	27		
ISO.30.50.D32C	ISO30 H50 D32C	58	24	50	32		

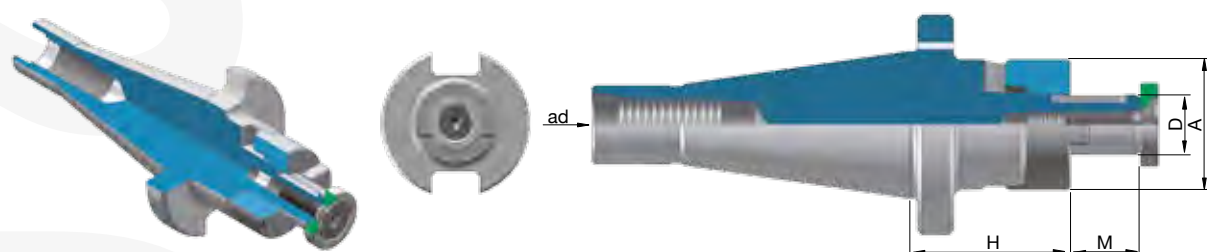
CONO MORSE PUNTE / FRESE

MORSE TAPER ADAPTERS FOR DRILLS / FOR MILLS



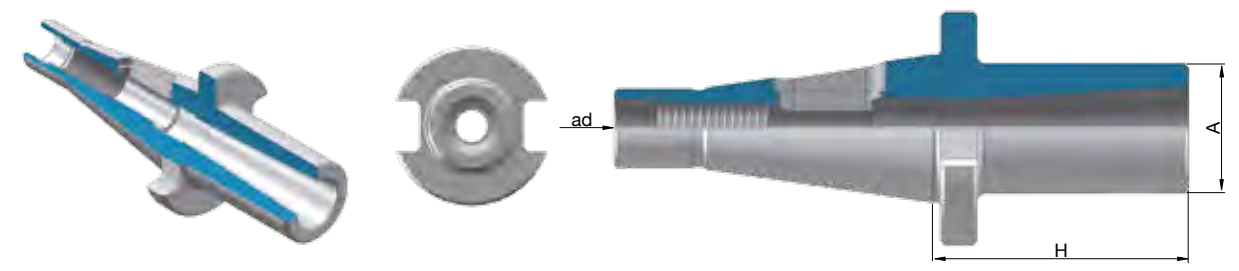
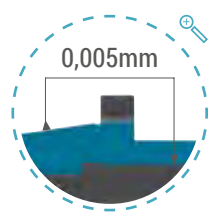
PORTAFRESE COMBINATO - COMBI SHELL END MILL HOLDERS - ISO40

Cod.	TYPE	A	M	AT2	
				G6.3/12000	
ISO.40.52.D16C	ISO40 H52 D16C	32	17	52	16
ISO.40.52.D22C	ISO40 H52 D22C	40	19	52	22
ISO.40.52.D27C	ISO40 H52 D27C	48	21	52	27
ISO.40.52.D32C	ISO40 H52 D32C	58	24	52	32
ISO.40.52.D40C	ISO40 H52 D40C	70	27	52	40



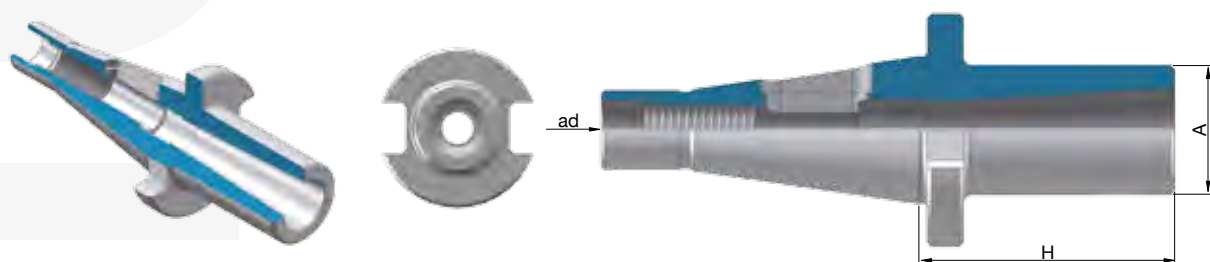
PORTAFRESE COMBINATO - COMBI SHELL END MILL HOLDERS - ISO50

Cod.	TYPE	A	M	AT2	
				G6.3/12000	
ISO.50.55.D16C	ISO50 H55 D16C	32	17	55	16
ISO.50.55.D22C	ISO50 H55 D22C	40	19	55	22
ISO.50.55.D27C	ISO50 H55 D27C	48	21	55	27
ISO.50.55.D32C	ISO50 H55 D32C	58	24	55	32
ISO.50.55.D40C	ISO50 H55 D40C	70	27	55	40



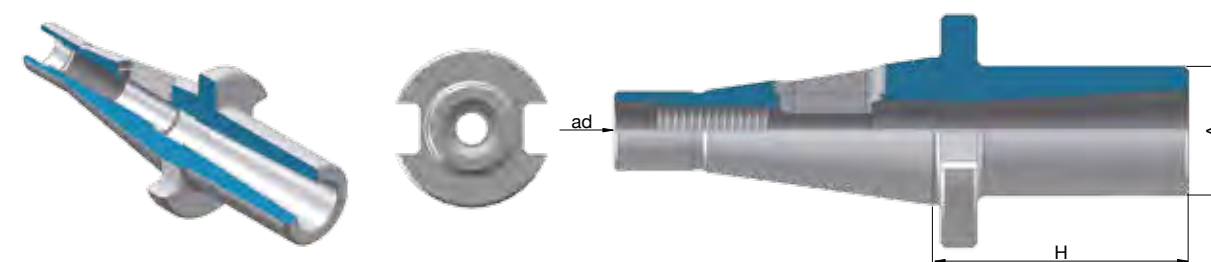
CONO MORSE PER PUNTE - MORSE TAPER FOR DRILLS - ISO30

Cod.	TYPE	AT2	
		G6.3/12000	
ISO.30.50.CM1P	ISO30 H50 CM1 P	25	50
ISO.30.50.CM2P	ISO30 H50 CM2 P	32	50
ISO.30.75.CM3P	ISO30 H75 CM3 P	40	75



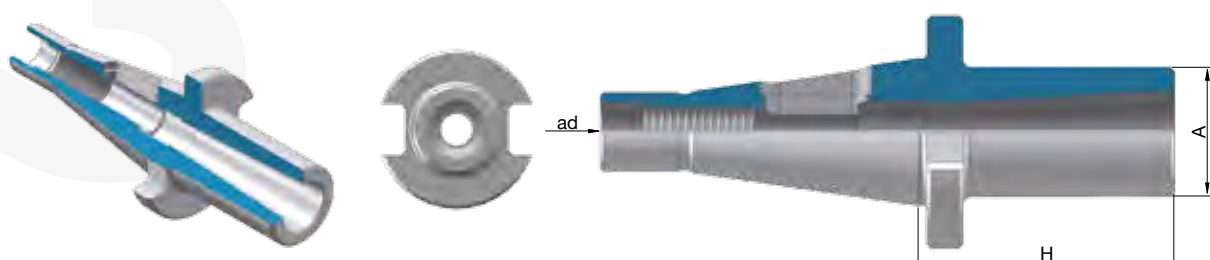
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Cod.	TYPE	G6.3/12000	
		AT2	H
ISO.40.50.CM1P	ISO40 H50 CM1 P	25	50
ISO.40.50.CM2P	ISO40 H50 CM2 P	32	50
ISO.40.65.CM3P	ISO40 H65 CM3 P	40	65
ISO.40.95.CM4P	ISO40 H95 CM4 P	48	95



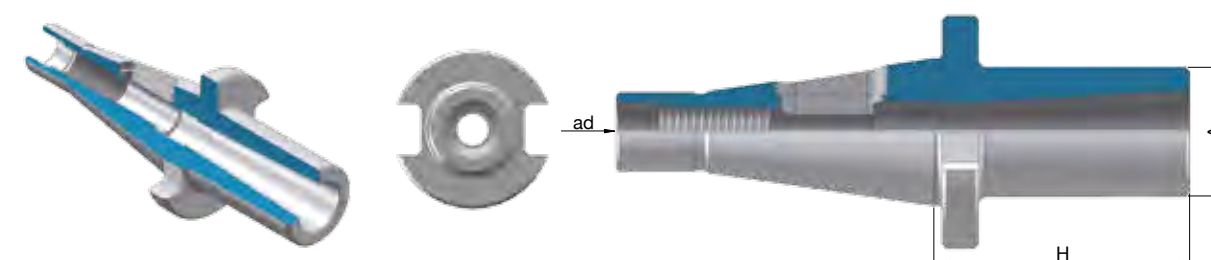
CONO MORSE PER FRESE - MORSE TAPER FOR MILLS - ISO40

Cod.	TYPE	G6.3/12000	
		AT2	H
ISO.40.50.CM1F	ISO40 H50 CM1 FV	25	50
ISO.40.50.CM2F	ISO40 H50 CM2 FV	32	50
ISO.40.65.CM3F	ISO40 H65 CM3 FV	40	65
ISO.40.95.CM4F	ISO40 H95 CM4 FV	48	95
ISO.40.110.CM4F	ISO40 H110 CM4 FV	63	110



CONO MORSE PER PUNTE - MORSE TAPER FOR DRILLS - ISO50

Cod.	TYPE	G6.3/12000	
		AT2	H
ISO.50.45.CM1P	ISO50 H45 CM1 P	25	45
ISO.50.60.CM2P	ISO50 H60 CM2 P	32	60
ISO.50.65.CM3P	ISO50 H65 CM3 P	40	65
ISO.50.70.CM4P	ISO50 H70 CM4 P	48	70
ISO.50.105.CM5P	ISO50 H105 CM5 P	63	105

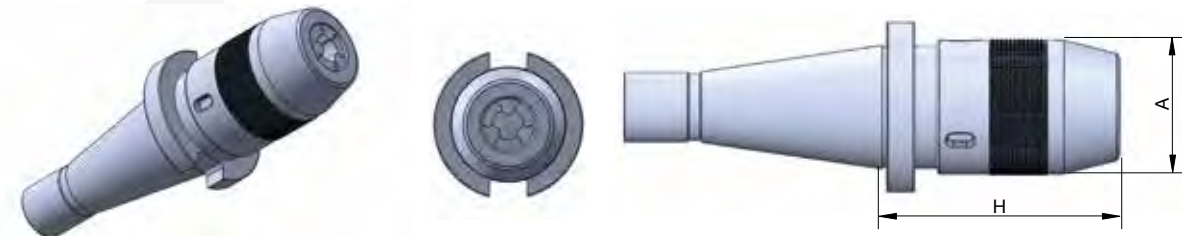
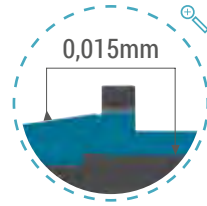


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Cod.	TYPE	G6.3/12000	
		AT2	H
ISO.50.60.CM1F	ISO50 H60 CM1 FV	25	60
ISO.50.60.CM2F	ISO50 H60 CM2 FV	32	60
ISO.50.65.CM3F	ISO50 H65 CM3 FV	40	65
ISO.50.65.CM4F	ISO50 H65 CM4 FV	48	65
ISO.50.80.CM4F	ISO50 H80 CM4 FV	63	80
ISO.50.120.CM5F	ISO50 H120 CM5 FV	63	120
ISO.50.138.CM5F	ISO50 H138 CM5 FV	78	138

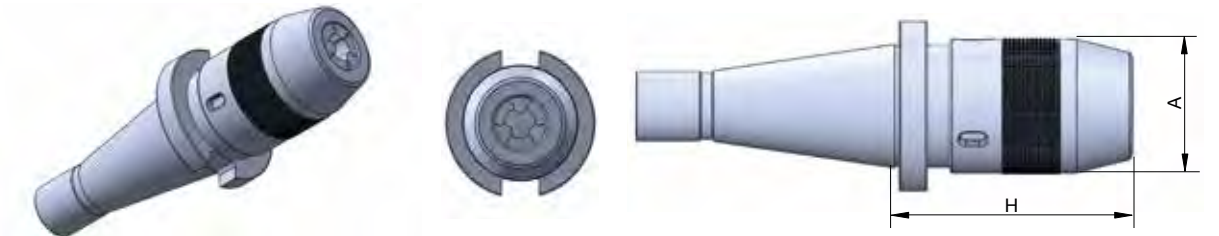
PORTAPUNTE AUTOSERRANTE

DRILL CHUCK



AUTOSERRANTE CON CHIAVE A SETTORE - DRILL CHUCK - ISO40

Cod.	TYPE	A	AT2 G6.3/12000	
			CAPACITÀ RANGE	H
ISO.40.88.DCK13	ISO40 H88 DCK13	50	1 ÷ 13 mm	88
ISO.40.100.DCK16	ISO40 H100 DCK16	58	3 ÷ 16 mm	100



AUTOSERRANTE CON CHIAVE A SETTORE - DRILL CHUCK - ISO50

Cod.	TYPE	A	AT2 G6.3/12000	
			CAPACITÀ RANGE	H
ISO.50.80.DCK13	ISO50 H80 DCK13	50	1 ÷ 13 mm	80
ISO.50.90.DCK16	ISO50 H90 DCK16	58	3 ÷ 16 mm	90

STELO TENERO LAVORABILE

BLANKS ARBORS

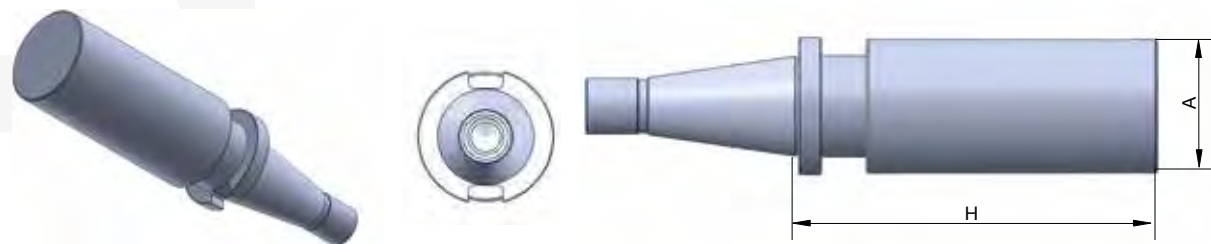


BARRA DI CONTROLLO

TEST ARBORS



DIN 2080



STELO TENERO LAVORABILE - BLANKS ARBORS - ISO40

Cod.	TYPE	A	H
ISO.40.250.D63BL	ISO40 H250 D63	63	250
ISO.50.315.D97BL	ISO40 H315 D97	97	315



BARRA DI CONTROLLO - TEST ARBORS

Cod.	TYPE	A	H
ISO.30.200.D32	ISO30 H200 D32	32	200
ISO.40.300.D40	ISO40 H300 D40	40	300
ISO.50.300.D50	ISO50 H300 D50	50	300