

MAS 403 - BT / JIS6339

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CALETTAMENTO A CALDO STANDARD
SHRINK FIT HOLDERS STANDARD



CALETTAMENTO A CALDO SLIM TYPE
SHRINK FIT HOLDERS SLIM TYPE



PORTAPINZA PER SKS
COLLET CHUCK FOR SKS



PORTA TESTINE FILETTATE (TIPO CPY)
FOR SCREWED MILLING CUTTERS



FORTE SERRAGGIO
POWER MILLING CHUCKS



IDRAULICO
HYDRAULIC EXPANSIONS CHUCK



PORTAPINZA ER DIN6499
COLLET CHUCK FOR ER DIN6499



PORTAPINZA EOC DIN6388
COLLET CHUCK FOR EOC DIN6388



PER FRESE WELDON
END MILL HOLDERS



PORTAFRESE FISSI
SHELL END MILL HOLDERS



PORTAFRESE COMBINATI
COMBI SHELL END MILL HOLDERS



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



PORTA PUNTE CON CHIAVE ESAGONALE
HEX KEY LOCK DRILL CHUCKS



CONO MORSE PUNTE/ FRESE
MORSE TAPER FOR DRILLS/MILLS



STELO TENERO LAVORABILE
BLANK ARBORS



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 ghiera 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.

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 gaging 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.

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.

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

ISTRUZIONI / INSTRUCTIONS / INSTRUCTIONS ET QUOTES / ANWEISUNGEN

ISTRUZIONI

- I mandrini vengono forniti in forma ad o ad/b. nel caso dell'ad/b, il lubrificante passa dai fori presenti sulla flangia. L'operatore dovrà togliere le viti di chiusura che troverà già montate sul mandrino.

INSTRUCTIONS

- The tool holders are provided to form ad or ad/b. in case of ad/b, the lubricant pass from holes on the flange. The operator will have to remove screw closure that he will find on the flange.

INSTRUCTIONS

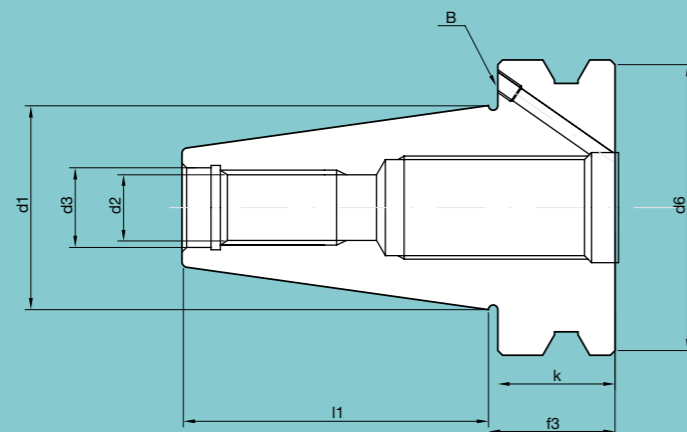
- Les mandrins doivent être fournis en forme AD ou AD/B. Le lubrifiant passe par les trous présents sur la flange. L'opérateur doit enlever les vis de fermeture qu'il trouvera déjà monté sur le mandrin.

ANWEISUNGEN UND ABMESSUNGEN

- Die Spannfutter werden in der form AD oder AD/B geliefert. Im falle von AD/B, fließt der Schmierstoff durch die vorhandenen Bohrungen auf der Flansche.

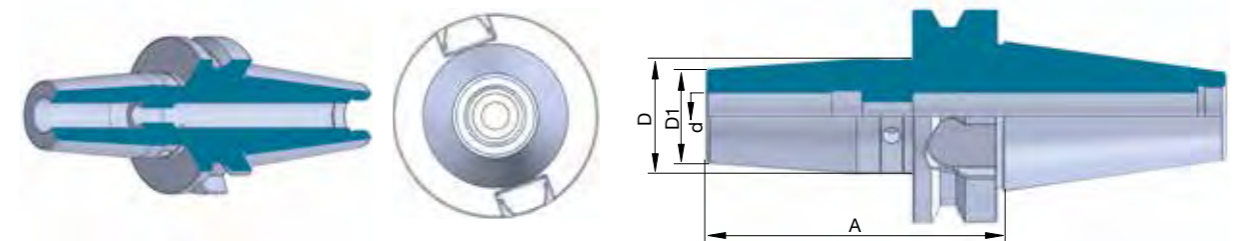
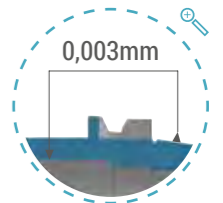
QUOTE DEI CONI DI ATTACCO / QUOTE / QUOTES / ABMESSUNGEN

CONO/TAPER	d1	d2	d3	d6	L1	a	k	f3
BT30	31,75	M12	12,5	46	48,4	2	20	22
BTB40	44,45	M16	17	63	65,4	2	25	27
BTB50	69,85	M24	25	100	101,8	3	35	38



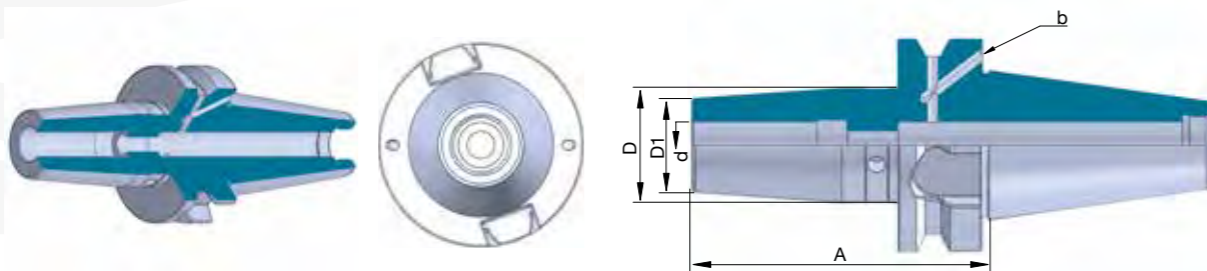
CALETTAMENTO A CALDO STANDARD

SHRINK FIT HOLDERS STANDARD



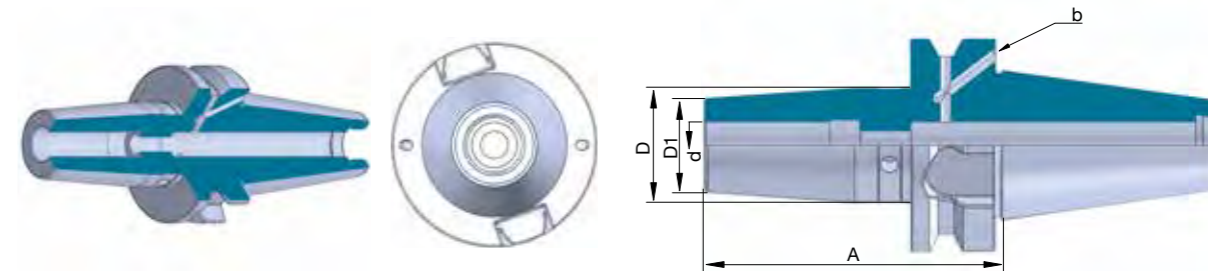
CALETTAMENTO STANDARD - SHRINK FIT HOLDERS - BT30

Cod.	TYPE	d	A	AT2		G2.5/25000		AD	
				D1	D	D1	D	D1	D
BT.30.80.CL3	BT30 H80 CL3	3	80	10	20				
BT.30.80.CL4	BT30 H80 CL4	4	80	15	24				
BT.30.80.CL5	BT30 H80 CL5	5	80	15	24				
BT.30.80.CL6	BT30 H80 CL6	6	80	20	27				
BT.30.80.CL8	BT30 H80 CL8	8	80	20	27				
BT.30.80.CL10	BT30 H80 CL10	10	80	24	31				
BT.30.80.CL12	BT30 H80 CL12	12	80	24	31				
BT.30.80.CL14	BT30 H80 CL14	14	80	27	34				
BT.30.80.CL16	BT30 H80 CL16	16	80	27	34				
BT.30.90.CL18	BT30 H90 CL18	18	90	33	40				
BT.30.90.CL20	BT30 H90 CL20	20	90	33	40				



CALETTAMENTO STANDARD - SHRINK FIT HOLDERS - BTB40

Cod.	TYPE	d	A	AT2		G2.5/25000		AD/B	
				D1	D	D1	D	D1	D
BTB.40.90.CL3	BTB40 H90 CL3	3	90	10	20				
BTB.40.120.CL3	BTB40 H120 CL3	3	120	10	20				
BTB.40.160.CL3	BTB40 H160 CL3	3	160	10	20				
BTB.40.90.CL4	BTB40 H90 CL4	4	90	15	22				
BTB.40.120.CL4	BTB40 H120 CL4	4	120	15	22				
BTB.40.160.CL4	BTB40 H160 CL4	4	160	15	22				
BTB.40.90.CL5	BTB40 H90 CL5	5	90	15	22				
BTB.40.120.CL5	BTB40 H120 CL5	5	120	15	22				
BTB.40.160.CL5	BTB40 H160 CL5	5	160	15	22				
BTB.40.90.CL6	BTB40 H90 CL6	6	90	21	27				
BTB.40.130.CL6	BTB40 H130 CL6	6	130	21	27				
BTB.40.160.CL6	BTB40 H160 CL6	6	160	21	27				
BTB.40.90.CL8	BTB40 H90 CL8	8	90	21	27				
BTB.40.130.CL8	BTB40 H130 CL8	8	130	21	27				
BTB.40.160.CL8	BTB40 H160 CL8	8	160	21	27				
BTB.40.90.CL10	BTB40 H90 CL10	10	90	24	32				
BTB.40.130.CL10	BTB40 H130 CL10	10	130	24	32				
BTB.40.160.CL10	BTB40 H160 CL10	10	160	24	32				
BTB.40.90.CL12	BTB40 H90 CL12	12	90	24	32				
BTB.40.130.CL12	BTB40 H130 CL12	12	130	24	32				
BTB.40.160.CL12	BTB40 H160 CL12	12	160	24	32				
BTB.40.90.CL14	BTB40 H90 CL14	14	90	27	34				
BTB.40.130.CL14	BTB40 H130 CL14	14	130	27	34				
BTB.40.160.CL14	BTB40 H160 CL14	14	160	27	34				
BTB.40.90.CL16	BTB40 H90 CL16	16	90	27	34				
BTB.40.130.CL16	BTB40 H130 CL16	16	130	27	34				
BTB.40.160.CL16	BTB40 H160 CL16	16	160	27	34				
BTB.40.90.CL18	BTB40 H90 CL18	18	90	33	42				
BTB.40.130.CL18	BTB40 H130 CL18	18	130	33	42				
BTB.40.160.CL18	BTB40 H160 CL18	18	160	33	42				
BTB.40.90.CL20	BTB40 H90 CL20	20	90	33	42				
BTB.40.130.CL20	BTB40 H130 CL20	20	130	33	42				
BTB.40.160.CL20	BTB40 H160 CL20	20	160	33	42				
BTB.40.100.CL25	BTB40 H100 CL25	25	100	44	53				
BTB.40.130.CL25	BTB40 H130 CL25	25	130	44	53				
BTB.40.160.CL25	BTB40 H160 CL25	25	160	44	53				
BTB.40.100.CL32	BTB40 H100 CL32	32	100	44	53				
BTB.40.130.CL32	BTB40 H130 CL32	32	130	44	53				
BTB.40.160.CL32	BTB40 H160 CL32	32	160	44	53				

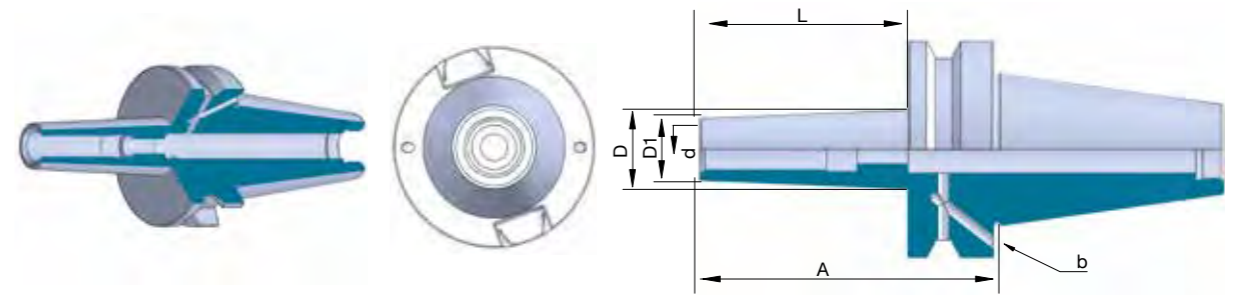
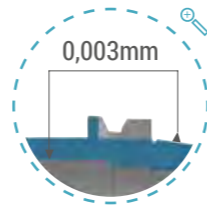


CALETTAMENTO STANDARD - SHRINK FIT HOLDERS - BTB50

Cod.	TYPE	d	A	AT2		G2.5/25000		AD/B	
				D1	D	D1	D	D1	D
BTB.50.100.CL3	BTB50 H100 CL3	3	100	10	20				
BTB.50.120.CL3	BTB50 H120 CL3	3	120	10	20				
BTB.50.160.CL3	BTB50 H160 CL3	3	160	10	20				
BTB.50.100.CL4	BTB50 H100 CL4	4	100	15	25				
BTB.50.120.CL4	BTB50 H120 CL4	4	120	15	22				
BTB.50.160.CL4	BTB50 H160 CL4	4	160	15	22				
BTB.50.100.CL5	BTB50 H100 CL5	5	100	15	25				
BTB.50.120.CL5	BTB50 H120 CL5	5	120	15	22				
BTB.50.160.CL5	BTB50 H160 CL5	5	160	15	22				
BTB.50.100.CL6	BTB50 H100 CL6	6	100	20	27				
BTB.50.120.CL6	BTB50 H120 CL6	6	120	20	27				
BTB.50.160.CL6	BTB50 H160 CL6	6	160	20	27				
BTB.50.100.CL8	BTB50 H100 CL8	8	100	20	27				
BTB.50.120.CL8	BTB50 H120 CL8	8	120	20	27				
BTB.50.160.CL8	BTB50 H160 CL8	8	160	20	27				
BTB.50.100.CL10	BTB50 H100 CL10	10	100	24	31				
BTB.50.120.CL10	BTB50 H120 CL10	10	120	24	31				
BTB.50.160.CL10	BTB50 H160 CL10	10	160	24	31				
BTB.50.100.CL12	BTB50 H100 CL12	12	100	24	31				
BTB.50.120.CL12	BTB50 H120 CL12	12	120	24	31				
BTB.50.160.CL12	BTB50 H160 CL12	12	160	24	31				
BTB.50.100.CL14	BTB50 H100 CL14	14	100	27	34				
BTB.50.120.CL14	BTB50 H120 CL14	14	120	27	34				
BTB.50.160.CL14	BTB50 H160 CL14	14	160	27	34				
BTB.50.100.CL16	BTB50 H100 CL16	16	100	27	34				
BTB.50.120.CL16	BTB50 H120 CL16	16	120	27	34				
BTB.50.160.CL16	BTB50 H160 CL16	16	160	27	34				
BTB.50.100.CL18	BTB50 H100 CL18	18	100	33	40				
BTB.50.120.CL18	BTB50 H120 CL18	18	120	33	40				
BTB.50.160.CL18	BTB50 H160 CL18	18	160	33	40				
BTB.50.90.CL20	BTB50 H100 CL20	20	100	33	40				
BTB.50.120.CL20	BTB50 H120 CL20	20	120	33	40				
BTB.50.160.CL20	BTB50 H160 CL20	20	160	33	40				
BTB.50.110.CL25	BTB50 H110 CL25	25	110	44	53				
BTB.50.120.CL25	BTB50 H120 CL25	25	120	44	53				
BTB.50.160.CL25	BTB50 H160 CL25	25	160	44	53				
BTB.50.110.CL32	BTB50 H110 CL32	32	110	44	53				
BTB.50.120.CL32	BTB50 H120 CL32	32	120	44	53				
BTB.50.160.CL32	BTB50 H160 CL32	32	160	44	53				

CALETTAMENTO A CALDO SLIM TYPE

SHRINK FIT HOLDERS SLIM TYPE



CALETTAMENTO TIPO SLIM - SHRINK FIT HOLDERS SLIM TYPE - BTB40

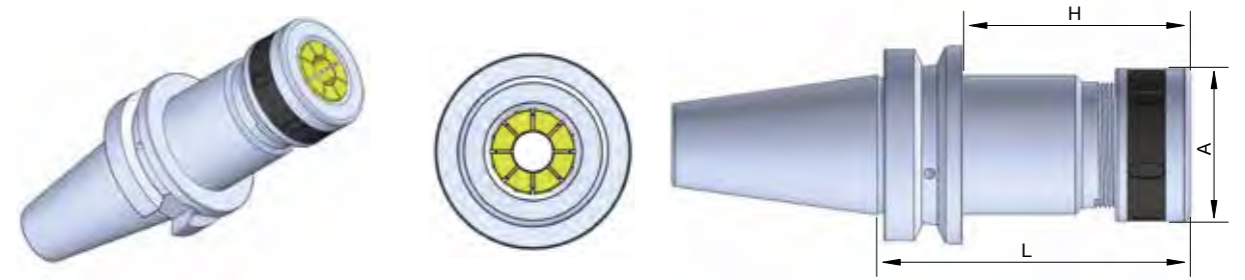
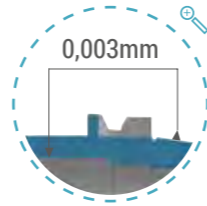
Cod.	TYPE	d	A	AT2		G2.5/25000		AD/B
				D1	D	D1	D	
BTB.40.160.CL8.SL	SLIM TYPE BTB40 H160 CL8	8	160	14	21	133		
BTB.40.90.CL10.SL	SLIM TYPE BTB40 H90 CL10	10	90	16	21	63		
BTB.40.130.CL10.SL	SLIM TYPE BTB40 H130 CL10	10	130	16	23	103		
BTB.40.160.CL10.SL	SLIM TYPE BTB40 H160 CL10	10	160	16	23	133		
BTB.40.90.CL12.SL	SLIM TYPE BTB40 H90 CL12	12	90	18	23	63		
BTB.40.130.CL12.SL	SLIM TYPE BTB40 H130 CL12	12	130	18	25	103		
BTB.40.160.CL12.SL	SLIM TYPE BTB40 H160 CL12	12	160	18	25	133		
BTB.40.90.CL14.SL	SLIM TYPE BTB40 H90 CL14	14	90	22	25	63		
BTB.40.130.CL14.SL	SLIM TYPE BTB40 H130 CL14	14	130	22	27	103		
BTB.40.160.CL14.SL	SLIM TYPE BTB40 H160 CL14	14	160	22	27	133		
BTB.40.90.CL16.SL	SLIM TYPE BTB40 H90 CL16	16	90	24	29	63		
BTB.40.130.CL16.SL	SLIM TYPE BTB40 H130 CL16	16	130	21	31	103		
BTB.40.160.CL16.SL	SLIM TYPE BTB40 H160 CL16	16	160	24	31	133		
BTB.40.90.CL20.SL	SLIM TYPE BTB40 H90 CL20	20	90	28	33	63		
BTB.40.130.CL20.SL	SLIM TYPE BTB40 H130 CL20	20	130	28	35	103		
BTB.40.160.CL20.SL	SLIM TYPE BTB40 H160 CL20	20	160	28	35	133		

CALETTAMENTO TIPO SLIM - SHRINK FIT HOLDERS SLIM TYPE - BTB40

Cod.	TYPE	d	A	AT2		G2.5/25000		AD/B
				D1	D	D1	D	
BTB.40.90.CL3.SL	SLIM TYPE BTB40 H90 CL3	3	90	9	13	63		
BTB.40.120.CL3.SL	SLIM TYPE BTB40 H120 CL3	3	120	9	16	93		
BTB.40.90.CL4.SL	SLIM TYPE BTB40 H90 CL4	4	90	10	15	63		
BTB.40.120.CL4.SL	SLIM TYPE BTB40 H120 CL4	4	120	10	15	93		
BTB.40.90.CL5.SL	SLIM TYPE BTB40 H90 CL5	5	90	11	16	63		
BTB.40.120.CL5.SL	SLIM TYPE BTB40 H120 CL5	5	120	11	20	93		
BTB.40.90.CL6.SL	SLIM TYPE BTB40 H90 CL6	6	90	12	17	63		
BTB.40.130.CL6.SL	SLIM TYPE BTB40 H130 CL6	6	130	12	19	103		
BTB.40.160.CL6.SL	SLIM TYPE BTB40 H160 CL6	6	160	12	19	133		
BTB.40.90.CL8.SL	SLIM TYPE BTB40 H90 CL8	8	90	14	19	63		
BTB.40.130.CL8.SL	SLIM TYPE BTB40 H130 CL8	8	130	14	21	103		

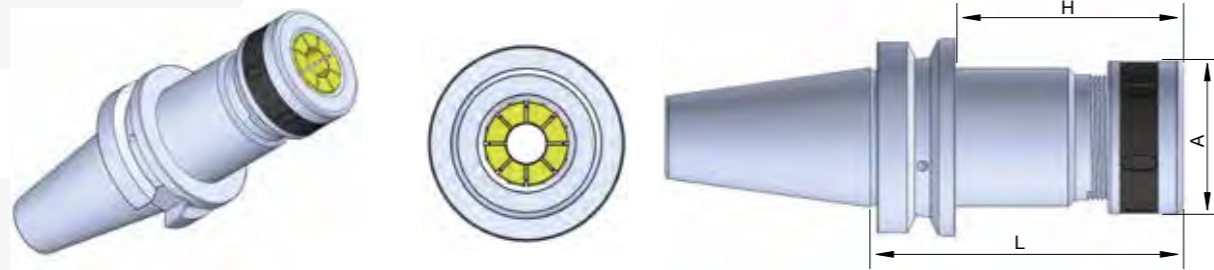
PORTAPINZA PER SKS

COLLET CHUCK FOR SKS



PORTAPINZA PER SKS - COLLET CHUCK FOR SKS - SK50

Cod.	TYPE	H	AD		
			AT2	G2.5/25000	AD
BT.50.105.SKS10	BT50 H105 SKS10	57			
BT.50.165.SKS10	BT50 H165 SKS10	108			
BT.50.105.SKS20	BT50 H105 SKS20	62			
BT.50.165.SKS20	BT50 H165 SKS20	122			

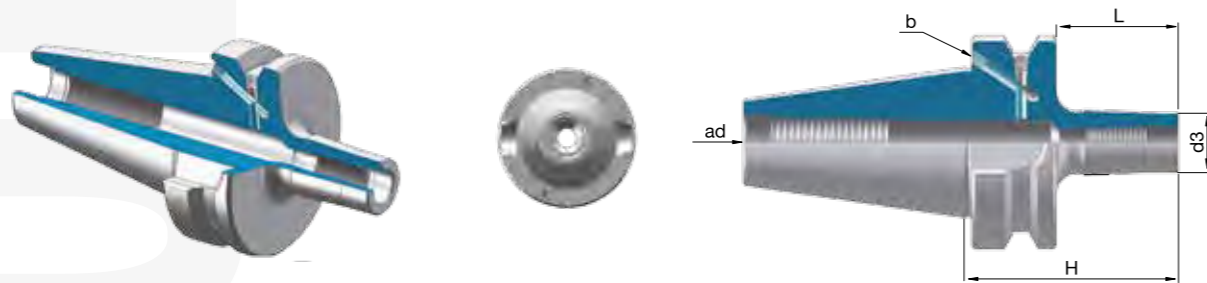
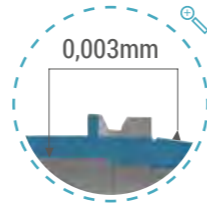


PORTAPINZA PER SKS - COLLET CHUCK FOR SKS - SK40

Cod.	TYPE	H	AD		
			AT2	G2.5/25000	AD
BT.40.90.SKS10	BT40 H90 SKS10	45			
BT.40.120.SKS10	BT40 H120 SKS10	74			
BT.40.90.SKS20	BT40 H90 SKS20	60			
BT.40.120.SKS20	BT40 H120 SKS20	88			

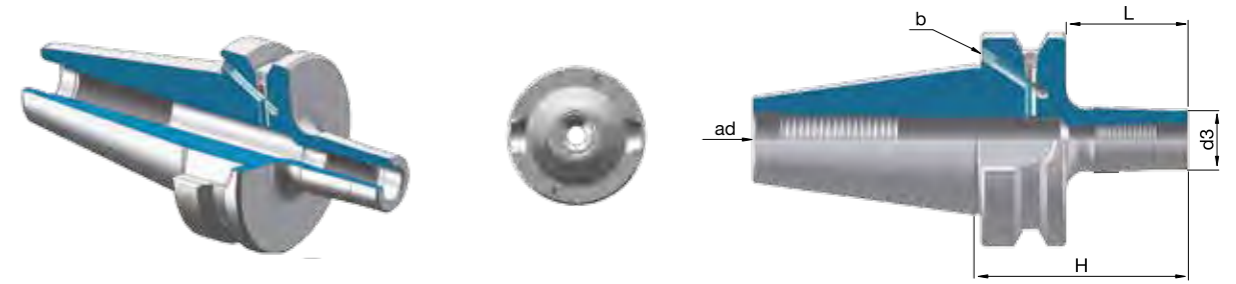
PORTA TESTINE FILETTATE (TIPO CPY)

TOOLHOLDERS FOR SCREWED MILLING CUTTERS



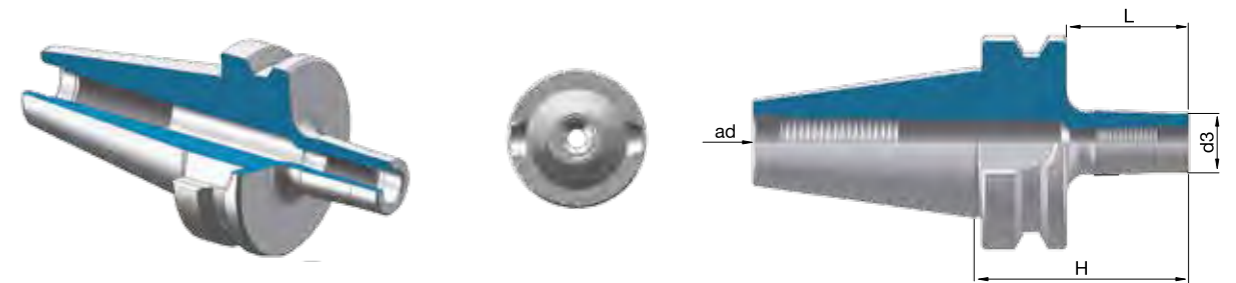
PORTA TESTINE FILETTATE - FOR SCREWED MILLING CUTTERS - BTB40

Cod.	TYPE	M	d1	AT2			G2.5/25000		AD/B
				d2	d3	L	H		
BTB.40.52.M6CPY	BTB40 H52 M6CPY	M6	6,5	10	13	25	52		
BTB.40.77.M6CPY	BTB40 H77 M6CPY	M6	6,5	10	20	50	77		
BTB.40.102.M6CPY	BTB40 H102 M6CPY	M6	6,5	10	23	75	102		
BTB.40.63.M8CPY	BTB40 H 63 M 8 CPY	M8	8,5	13	15	36	63		
BTB.40.83.M8CPY	BTB40 H 83 M 8 CPY	M8	8,5	13	23	56	83		
BTB.40.103.M8CPY	BTB40 H103 M 8 CPY	M8	8,5	13	23	76	103		
BTB.40.123.M8CPY	BTB40 H123 M 8 CPY	M8	8,5	13	25	96	123		
BTB.40.63.M10CPY	BTB40 H 63 M10 CPY	M10	10,5	18	20	36	63		
BTB.40.83.M10CPY	BTB40 H 83 M10 CPY	M10	10,5	18	25	56	83		
BTB.40.103.M10CPY	BTB40 H103 M10 CPY	M10	10,5	18	28	76	103		
BTB.40.123.M10CPY	BTB40 H123 M10 CPY	M10	10,5	18	28	96	123		
BTB.40.63.M12CPY	BTB40 H 63 M12 CPY	M12	12,5	21	24	36	63		



PORTA TESTINE FILETTATE - FOR SCREWED MILLING CUTTERS - BTB40

Cod.	TYPE	M	d1	AT2			G2.5/25000		AD/B
				d2	d3	L	H		
BTB.40.83.M12CPY	BTB40 H 83 M12 CPY	M12	12,5	21	24	56	83		
BTB.40.103.M12CPY	BTB40 H103 M12 CPY	M12	12,5	21	31	76	103		
BTB.40.123.M12CPY	BTB40 H123 M12 CPY	M12	12,5	21	31	96	123		
BTB.40.63.M16CPY	BTB40 H 63 M16 CPY	M16	17	29	34	36	63		
BTB.40.83.M16CPY	BTB40 H 83 M16 CPY	M16	17	29	34	56	83		
BTB.40.103.M16CPY	BTB40 H103 M16 CPY	M16	17	29	34	76	103		
BTB.40.123.M16CPY	BTB40 H123 M16 CPY	M16	17	29	39	96	123		
BTB.40.153.M16CPY	BTB40 H153 M16 CPY	M16	17	29	39	126	153		

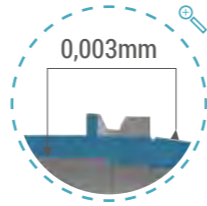


PORTA TESTINE FILETTATE - FOR SCREWED MILLING CUTTERS - BT50

Cod.	TYPE	M	d1	AT2			G2.5/25000		AD
				d2	d3	L	H		
BT.50.88.M8CPY	BT50 H88 M8 CPY	M8	8,5	13	23	50	88		
BT.50.138.M8CPY	BT50 H138 M8 CPY	M8	8,5	13	25	100	138		
BT.50.188.M8CPY	BT50 H188 M8 CPY	M8	8,5	13	30	150	188		
BT.50.88.M10CPY	BT50 H88 M10 CPY	M10	10,5	18	23	50	88		
BT.50.138.M10CPY	BT50 H138 M10 CPY	M10	10,5	18	32	100	138		
BT.50.188.M10CPY	BT50 H188 M10 CPY	M10	10,5	18	36,5	150	188		
BT.50.88.M12CPY	BT50 H88 M12 CPY	M12	12,5	21	24	50	88		
BT.50.138.M12CPY	BT50 H138 M12 CPY	M12	12,5	21	33	100	138		
BT.50.188.M12CPY	BT50 H188 M12 CPY	M12	12,5	21	40	150	188		
BT.50.88.M16CPY	BT50 H88 M16 CPY	M16	17	29	34	50	88		
BT.50.138.M16CPY	BT50 H138 M16 CPY	M16	17	29	36	100	138		
BT.50.188.M16CPY	BT50 H188 M16 CPY	M16	17	29	42,5	150	188		

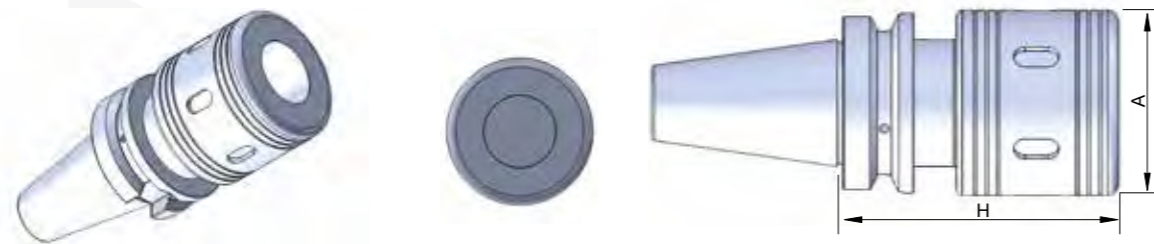
FORTE SERRAGGIO

POWER MILLING CHUCKS



A FORTE SERRAGGIO - POWER MILLING CHUCKS - BTB50

Cod.	TYPE	A	H	PINZE	AT2	G6.3/15000	AD/B
BTB.50.100.FP20	BTB50 H100 D20	46	100	4SR20- Ø3 al Ø18			
BTB.50.100.FP32	BTB50 H100 D32	62	100	4SR32- Ø6 al Ø25			

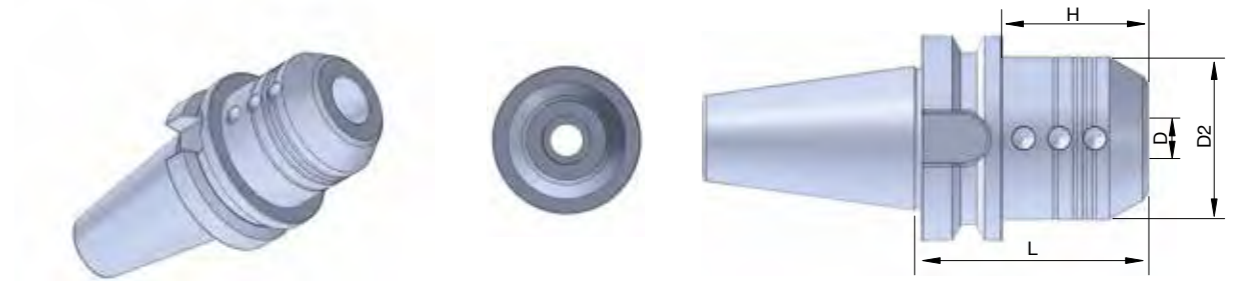
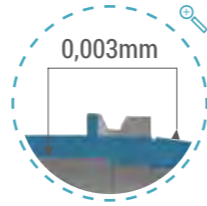


A FORTE SERRAGGIO - POWER MILLING CHUCKS - BTB40

Cod.	TYPE	A	H	PINZE	AT2	G6.3/15000	AD/B
BTB.40.80.FP20	BTB40 H80 D20	46	80	4SR20- Ø3 al Ø18			
BTB.40.85.FP32	BTB40 H85 D32	62	85	4SR32 - Ø6 al Ø25			

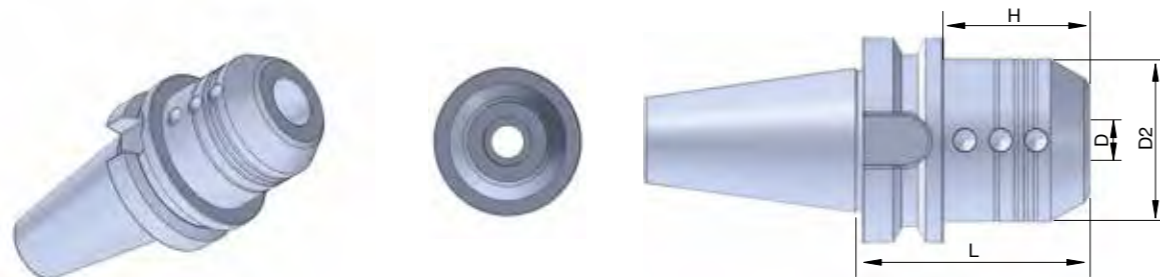
IDRAULICO

HYDRAULIC EXPANSIONS CHUCK



IDRAULICO - HYDRAULIC EXPANSIONS CHUCK - BTB50

Cod.	TYPE	L	H	AT2	
				G2.5/20000	AD/B
BTB.50.110.HY12	BTB50 H110 D12	110	72	32	12
BTB.50.110.HY20	BTB50 H110 D20	110	72	42	20
BTB.50.110.HY25	BTB50 H110 D25	110	72	50	25
BTB.50.110.HY32	BTB50 H110 D32	110	72	60	32

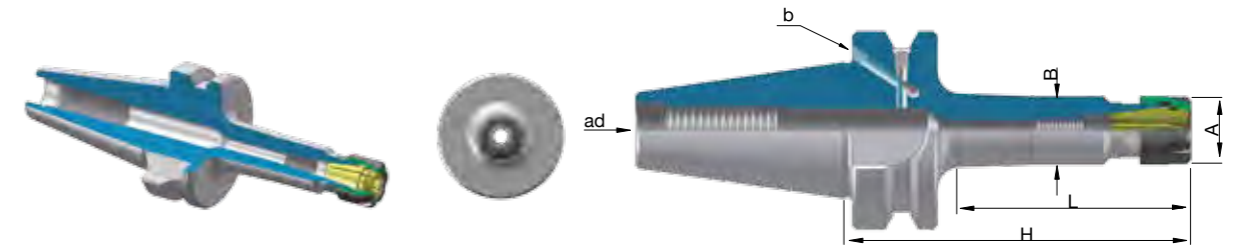


IDRAULICO - HYDRAULIC EXPANSIONS CHUCK - BTB40

Cod.	TYPE	L	H	AT2	
				G2.5/20000	AD/B
BTB.40.90.HY12	BTB40 H90 D12	90	63	32	12
BTB.40.90.HY20	BTB40 H90 D20	90	63	42	20
BTB.40.90.HY25	BTB40 H90 D25	90	63	50	25
BTB.40.110.HY32	BTB40 H110 D32	110	81.5	60	32

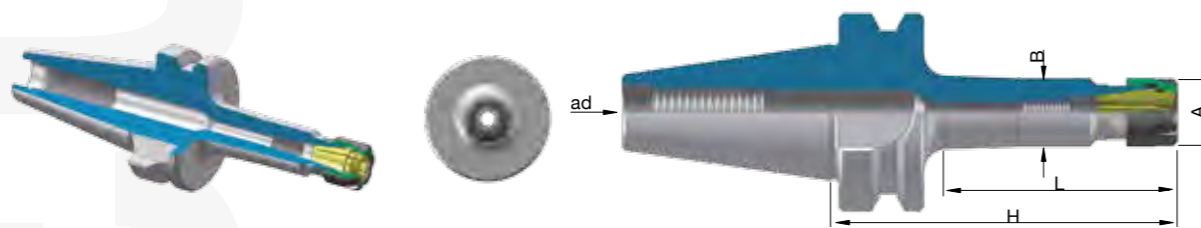
PORTAPINZA ER DIN6499

COLLET CHUCK FOR ER DIN6499



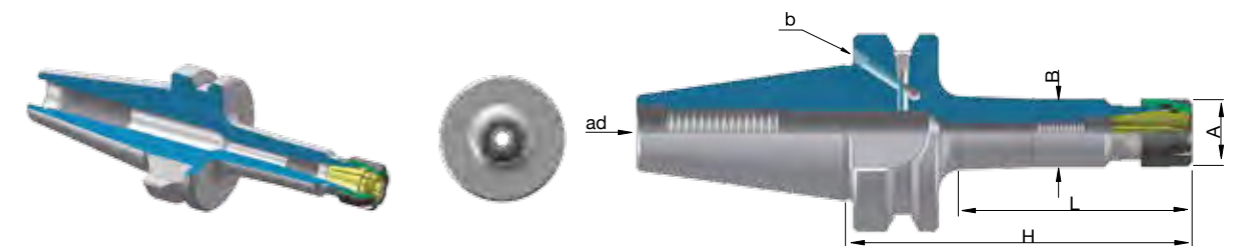
PORTAPINZA ER MINI - COLLET CHUCK ER MINI - BTB40

Cod.	TYPE	CAPACITÀ RANGE	AT2		G6.3/15000		AD/B
			A	B	L	H	
BTB.40.100.ER11M	BTB40 H100 ERX11M	1 ÷ 7 mm	16	16	73	100	
BTB.40.125.ER11M	BTB40 H125 ERX11M	1 ÷ 7 mm	16	16	98	125	
BTB.40.150.ER11M	BTB40 H150 ERX11M	1 ÷ 7 mm	16	16	123	150	
BTB.40.100.ER16M	BTB40 H100 ERX16M	1 ÷ 10 mm	22	22	73	100	
BTB.40.125.ER16M	BTB40 H125 ERX16M	1 ÷ 10 mm	22	22	98	125	
BTB.40.150.ER16M	BTB40 H150 ERX16M	1 ÷ 10 mm	22	22	123	150	
BTB.40.100.ER20M	BTB40 H100 ERX20M	1 ÷ 13 mm	28	28	73	100	
BTB.40.135.ER20M	BTB40 H135 ERX20M	1 ÷ 13 mm	28	28	108	135	
BTB.40.150.ER20M	BTB40 H150 ERX20M	1 ÷ 13 mm	28	28	123	150	
BTB.40.100.ER25M	BTB40 H100 ERX25M	1 ÷ 16 mm	35	35	73	100	
BTB.40.150.ER25M	BTB40 H150 ERX25M	1 ÷ 16 mm	35	35	123	150	
BTB.40.200.ER25M	BTB40 H200 ERX25M	1 ÷ 16 mm	35	35	173	200	



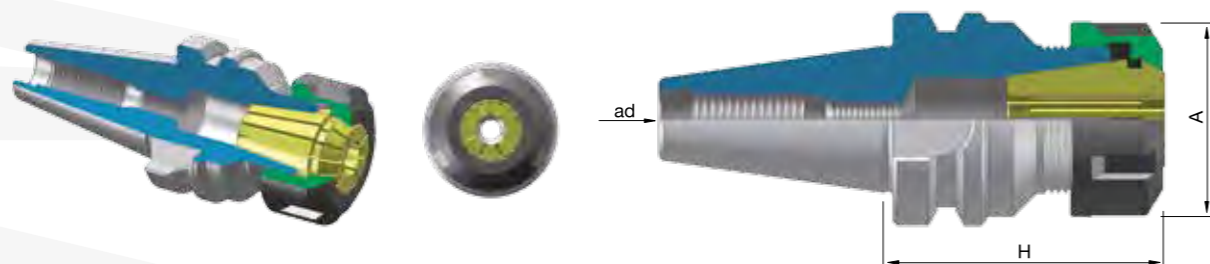
PORTAPINZA ER MINI - COLLET CHUCK ER MINI - BT30

Cod.	TYPE	CAPACITÀ RANGE	AT2		G6.3/15000		AD
			A	B	L	H	
BT.30.55.ER11M	BT 30 H 55 ERX11M	1 ÷ 7 mm	16	16	33	55	
BT.30.60.ER11M	BT 30 H 60 ERX11M	1 ÷ 7 mm	16	16	38	60	
BT.30.80.ER11M	BT 30 H 80 ERX11M	1 ÷ 7 mm	16	16	58	80	
BT.30.100.ER11M	BT 30 H100 ERX11M	1 ÷ 7 mm	16	16	78	100	
BT.30.130.ER11M	BT 30 H130 ERX11M	1 ÷ 7 mm	16	16	108	130	
BT.30.60.ER16M	BT 30 H60 ERX16M	1 ÷ 10 mm	22	22	38	60	
BT.30.120.ER16M	BT 30 H120 ERX16M	1 ÷ 10 mm	22	22	98	120	



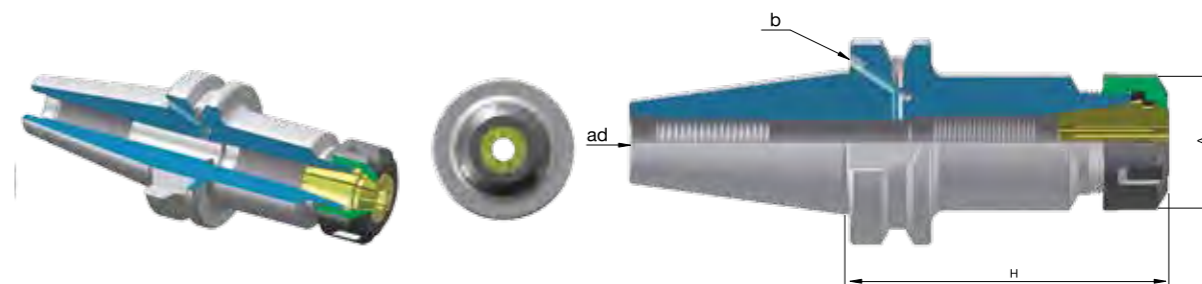
PORTAPINZA ER MINI - COLLET CHUCK ER MINI - BTB50

Cod.	TYPE	CAPACITÀ RANGE	AT2		G6.3/15000		AD/B
			A	B	L	H	
BTB.50.135.ER16M	BTB50 H135 ERX16M	1 ÷ 10 mm	22	22	97	135	
BTB.50.160.ER16M	BTB50 H160 ERX16M	1 ÷ 10 mm	22	22	122	160	
BTB.50.200.ER16M	BTB50 H200 ERX16M	1 ÷ 10 mm	22	22	162	200	
BTB.50.135.ER20M	BTB50 H135 ERX20M	1 ÷ 13 mm	28	28	97	135	



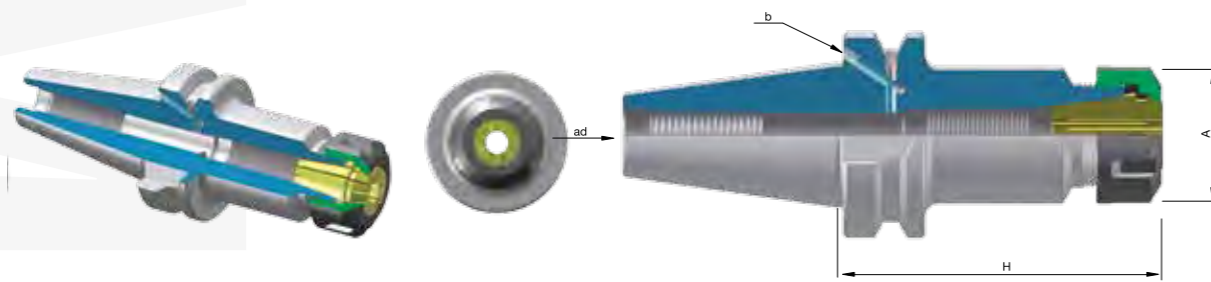
PORTAPINZA ER - COLLET CHUCK ER - BT30

Cod.	TYPE	CAPACITÀ RANGE	G6.3/15000	
			AT2	AD
			A	H
BT.30.55.ER16	BT 30 H 55 ERX16	1 ÷ 10 mm	32	55
BT.30.70.ER16	BT 30 H 70 ERX16	1 ÷ 10 mm	32	70
BT.30.100.ER16	BT 30 H100 ERX16	1 ÷ 10 mm	32	100
BT.30.70.ER20	BT 30 H 70 ERX20	1 ÷ 13 mm	35	70
BT.30.60.ER25	BT 30 H 60 ERX25	1 ÷ 16 mm	42	60
BT.30.90.ER25	BT 30 H 90 ERX25	1 ÷ 16 mm	42	90
BT.30.60.ER32	BT 30 H 60 ERX32	2 ÷ 20 mm	50	60
BT.30.70.ER32	BT 30 H 70 ERX32	2 ÷ 20 mm	50	70
BT.30.100.ER32	BT 30 H100 ERX32	2 ÷ 20 mm	50	100
BT.30.60.ER40	BT 30 H 80 ERX40	3 ÷ 20 mm	63	80



PORTAPINZA ER - COLLET CHUCK ER - BTB40

Cod.	TYPE	CAPACITÀ RANGE	G6.3/15000	
			AT2	AD/B
			A	H
BTB.40.70.ER16	BTB40 H 70 ERX16	1 ÷ 10 mm	32	70
BTB.40.100.ER16	BTB40 H100 ERX16	1 ÷ 10 mm	32	100
BTB.40.120.ER16	BTB40 H120 ERX16	1 ÷ 10 mm	32	120
BTB.40.150.ER16	BTB40 H150 ERX16	1 ÷ 10 mm	32	150
BTB.40.200.ER16	BTB40 H200 ERX16	1 ÷ 10 mm	32	200
BTB.40.70.ER20	BTB40 H 70 ERX20	1 ÷ 13 mm	35	70
BTB.40.100.ER20	BTB40 H100 ERX20	1 ÷ 13 mm	35	100
BTB.40.160.ER20	BTB40 H160 ERX20	1 ÷ 13 mm	35	160
BTB.40.70.ER25	BTB40 H 70 ERX25	1 ÷ 16 mm	42	70
BTB.40.100.ER25	BTB40 H100 ERX25	1 ÷ 16 mm	42	100
BTB.40.130.ER25	BTB40 H130 ERX25	1 ÷ 16 mm	42	130
BTB.40.160.ER25	BTB40 H160 ERX25	1 ÷ 16 mm	42	160
BTB.40.200.ER25	BTB40 H200 ERX25	1 ÷ 16 mm	42	200
BTB.40.70.ER32	BTB40 H 70 ERX32	2 ÷ 20 mm	50	70
BTB.40.100.ER32	BTB40 H100 ERX32	2 ÷ 20 mm	50	100
BTB.40.130.ER32	BTB40 H130 ERX32	2 ÷ 20 mm	50	130
BTB.40.150.ER32	BTB40 H150 ERX32	2 ÷ 20 mm	50	150
BTB.40.200.ER32	BTB40 H200 ERX32	2 ÷ 20 mm	50	200
BTB.40.70.ER40	BTB40 H 70 ERX40	3 ÷ 26 mm	63	70
BTB.40.100.ER40	BTB40 H100 ERX40	3 ÷ 26 mm	63	100
BTB.40.130.ER40	BTB40 H130 ERX40	3 ÷ 26 mm	63	130
BTB.40.150.ER40	BTB40 H150 ERX40	3 ÷ 26 mm	63	150
BTB.40.200.ER40	BTB40 H200 ERX40	3 ÷ 26 mm	63	200
BTB.40.85.ER50	BTB40 H 85 ERX50	6 ÷ 34 mm	78	85



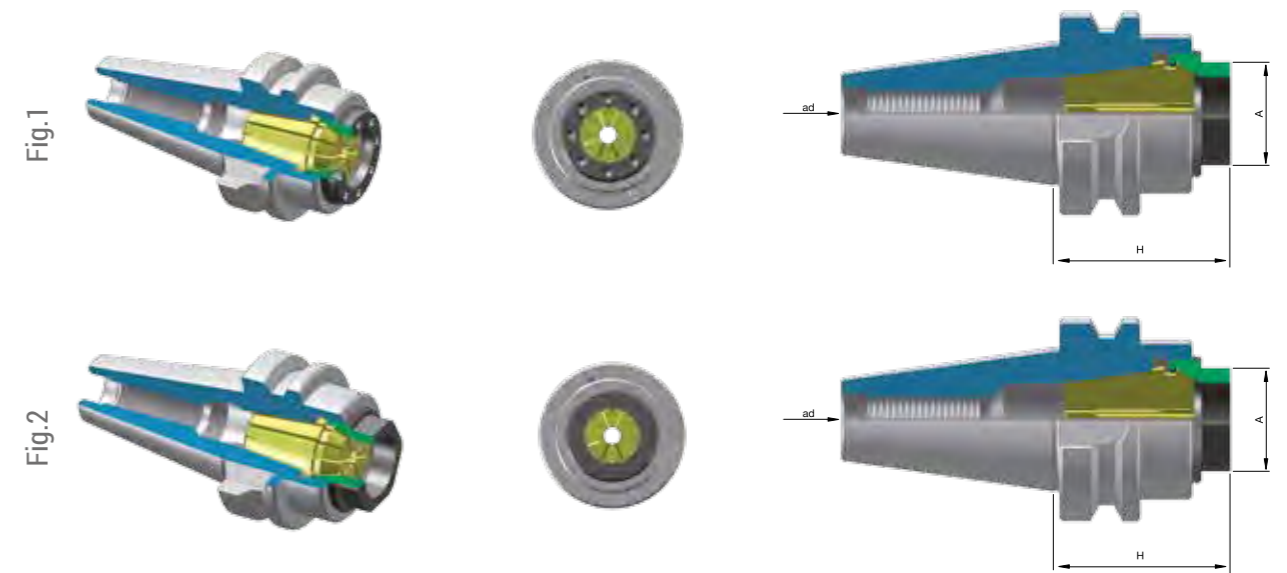
PORTAPINZA ER - COLLET CHUCK ER - BTB50

Cod.	TYPE	CAPACITÀ RANGE	AT2	
			G6.3/15000	AD/B
BTB.50.100.ER16	BTB50 H100 ERX16	2 ÷ 20 mm	32	100
BTB.50.160.ER16	BTB50 H160 ERX16	2 ÷ 20 mm	32	160
BTB.50.200.ER16	BTB50 H200 ERX16	2 ÷ 20 mm	32	200
BTB.50.100.ER20	BTB50 H100 ERX20	1 ÷ 13 mm	35	100
BTB.50.160.ER20	BTB50 H160 ERX20	1 ÷ 13 mm	35	160
BTB.50.85.ER25	BTB50 H 80 ERX25	1 ÷ 16 mm	42	80
BTB.50.100.ER25	BTB50 H100 ERX25	1 ÷ 16 mm	42	100
BTB.50.130.ER25	BTB50 H130 ERX25	1 ÷ 16 mm	42	130
BTB.50.160.ER25	BTB50 H160 ERX25	1 ÷ 16 mm	42	160
BTB.50.200.ER25	BTB50 H200 ERX25	1 ÷ 16 mm	42	200
BTB.50.85.ER32	BTB50 H 80 ERX32	2 ÷ 20 mm	50	80
BTB.50.100.ER32	BTB50 H100 ERX32	2 ÷ 20 mm	50	100
BTB.50.120.ER32	BTB50 H120 ERX32	2 ÷ 20 mm	50	120
BTB.50.160.ER32	BTB50 H160 ERX32	2 ÷ 20 mm	50	160
BTB.50.200.ER32	BTB50 H200 ERX32	2 ÷ 20 mm	50	200
BTB.50.250.ER32	BTB50 H250 ERX32	2 ÷ 20 mm	50	250
BTB.50.80.ER40	BTB50 H 80 ERX40	3 ÷ 30 mm	63	80
BTB.50.100.ER40	BTB50 H100 ERX40	3 ÷ 30 mm	63	100
BTB.50.130.ER40	BTB50 H130 ERX40	3 ÷ 30 mm	63	130
BTB.50.160.ER40	BTB50 H160 ERX40	3 ÷ 30 mm	63	160
BTB.50.200.ER40	BTB50 H200 ERX40	3 ÷ 30 mm	63	200
BTB.50.300.ER40	BTB50 H300 ERX40	3 ÷ 30 mm	63	300
BTB.50.100.ER50	BTB50 H100 ERX50	6 ÷ 34 mm	78	100
BTB.50.120.ER50	BTB50 H120 ERX50	6 ÷ 34 mm	78	120
BTB.50.160.ER50	BTB50 H160 ERX50	6 ÷ 34 mm	78	160



CASSETTA CON MANDRINO PORTAPINZE - KIT

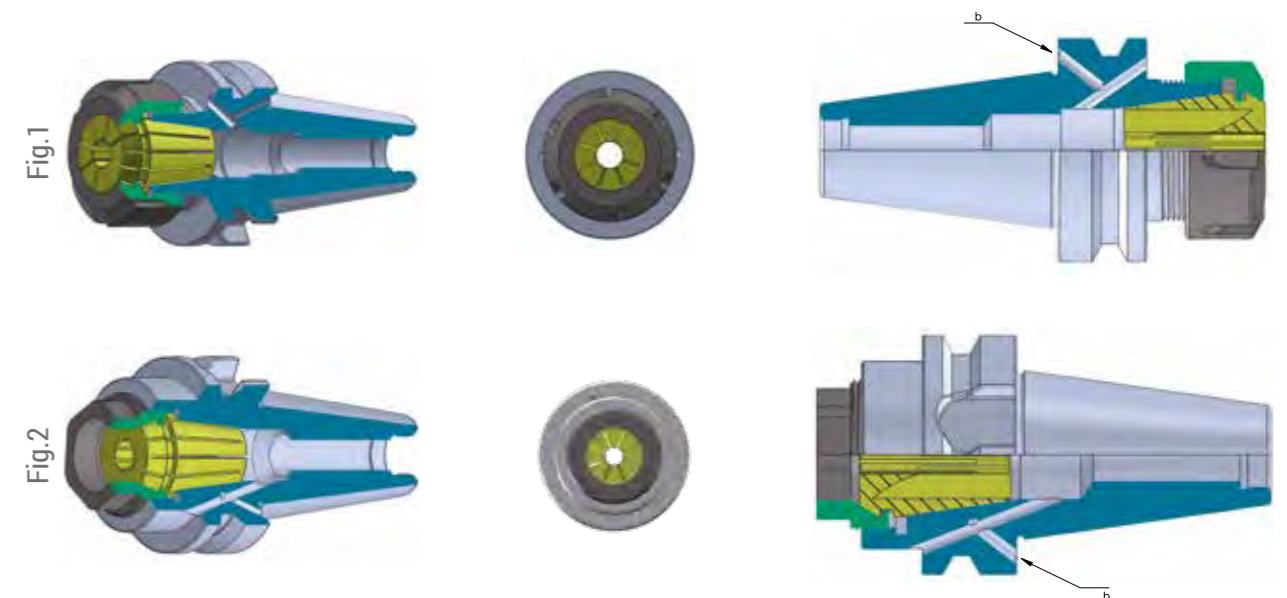
Cod.	Portapinze	Pinze nella serie	AT2	
			G6.3/15000	AD/B
KIT577	BTB40 H70 ERX32	ERX32: Ø 3 ÷ 20 progress. 1,0 mm - 18 pinze	ERX32	STAND
KIT582	BTB40 H70 ERX40	ERX40: Ø 4 ÷ 26 progress. 1,0 mm - 23 pinze	ERX40	STAND
KIT583	BTB50 H80 ERX32	ERX32: Ø 3 ÷ 20 progress. 1,0 mm - 18 pinze	ERX32	STAND
KIT584	BTB50 H80 ERX40	ERX40: Ø 4 ÷ 26 progress. 1,0 mm - 23 pinze	ERX40	STAND



PORTAPINZA EXTRACORTO - SHORTS COLLET CHUCK - BT40

Cod.	TYPE	CAPACITÀ RANGE	AT2	
			G6.3/15000	AD
BT.40.29.ER32	BT 40 H 29 ERX32	2 ÷ 20 mm		29

FORNIBILI CON GHIERA CON FILETTO ESTERNO FORMA A CON FORI (Fig.1) E CON ESAGONO (Fig.2)
AVAILABLE WITH EXTERNALLY THREADED NUTS (Fig.1) AND EXTERNALLY THREADED EXAGONAL NUTS (Fig.2)



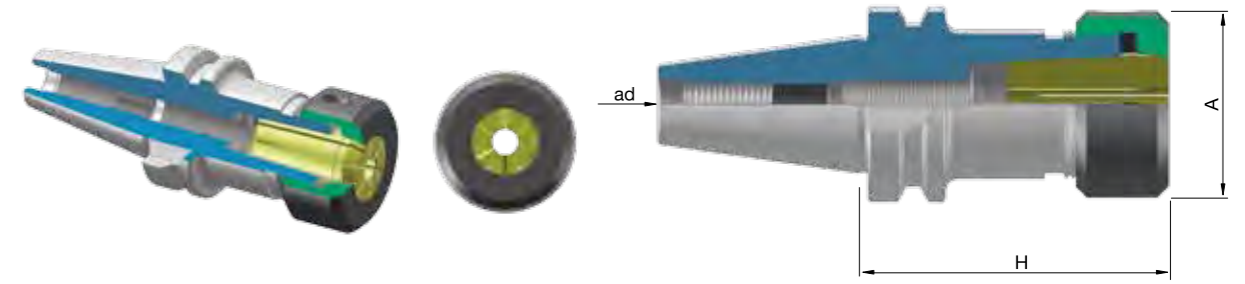
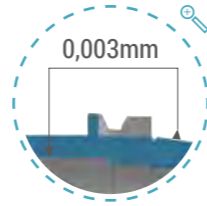
PORTAPINZA EXTRACORTO - SHORTS COLLET CHUCK - BTB40 - BTB50

Cod.	TYPE	CAPACITÀ RANGE	AT2	
			G6.3/15000	AD/B
BTB.40.50.ER32	BTB40 H 50 ERX32	2 ÷ 20 mm	Hex 32	50
BTB.40.55.ER32	BTB40 H 55 ERX32	2 ÷ 20 mm	40	55
BTB.50.40.ER32	BTB50 H 40 ERX32	2 ÷ 20 mm	Hex 32	40

FORNIBILI CON GHIERA CON FILETTO ESTERNO FORMA A CON FORI, CON ESAGONO (Fig.2) E STANDARD (Fig.1)
AVAILABLE WITH EXTERNALLY THREADED NUTS, EXTERNALLY THREADED EXAGONAL NUTS (Fig.2) AND STANDARD CLAMPING NUT (Fig.1)

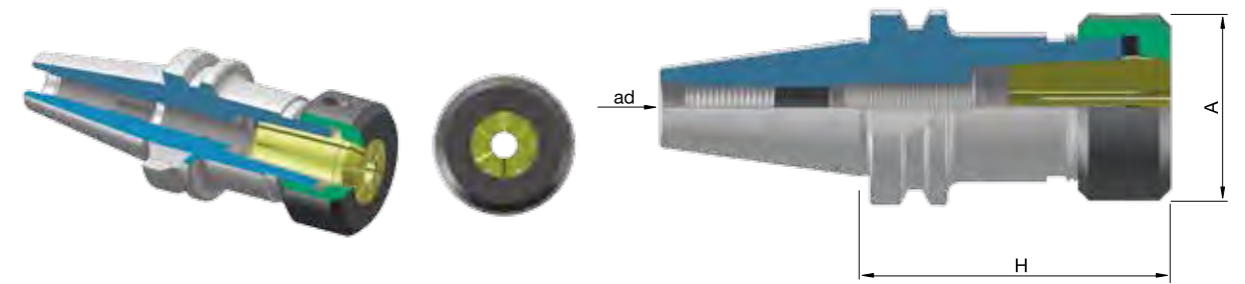
PORTAPINZA EOC DIN6388

COLLET CHUCK FOR EOC DIN6388



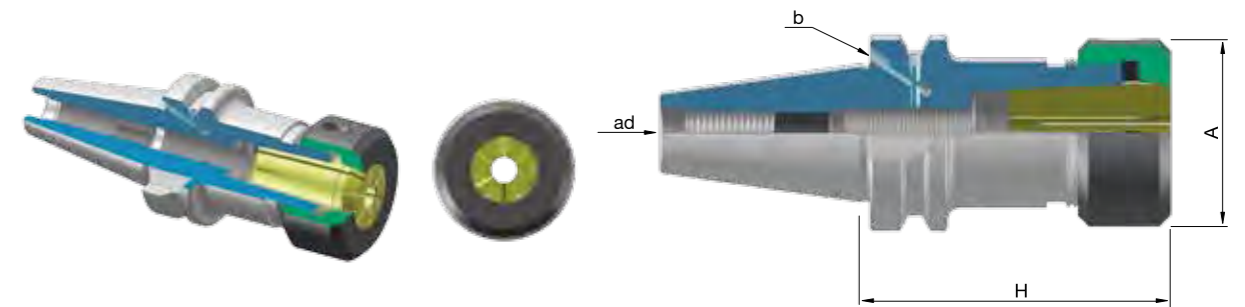
PORTAPINZA PER EOC - COLLET CHUCK FOR EOC - BT40

Cod.	TYPE	CAPACITÀ RANGE	AD	
			G6.3/15000	A
BT.40.70.EOC16	BT40 H 70 EOC16	2 ÷ 16 mm	43	70
BT.40.70.EOC25	BT40 H70 EOC25	2 ÷ 25 mm	60	70
BT.40.90.EOC32	BT40 H90 EOC32	4 ÷ 32 mm	72	90



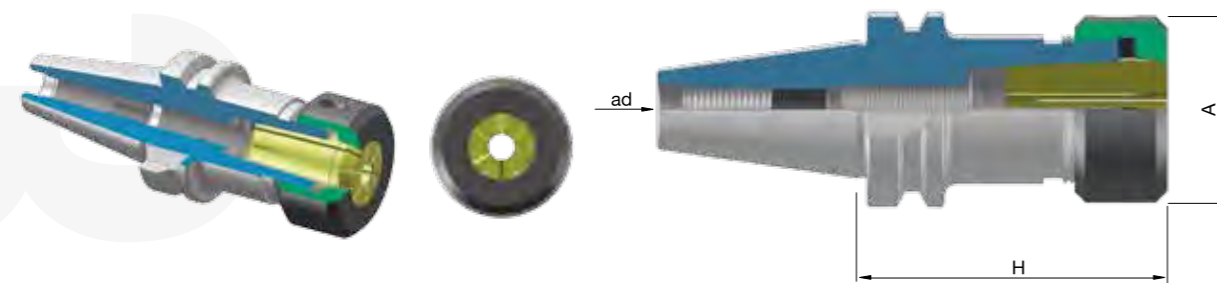
PORTAPINZA PER EOC - COLLET CHUCK FOR EOC - BT50

Cod.	TYPE	CAPACITÀ RANGE	AD	
			G6.3/15000	A
BT.50.85.EOC25	BT50 H85 EOC25	2 ÷ 25 mm	60	85
BT.50.90.EOC32	BT50 H90 EOC32	4 ÷ 32 mm	72	90



PORTAPINZA PER EOC - COLLET CHUCK FOR EOC - BTB40

Cod.	TYPE	CAPACITÀ RANGE	AD/B	
			G6.3/15000	A
BTB.40.70.EOC16	BTB40 H 70 EOC16	2 ÷ 16 mm	43	70
BTB.40.70.EOC25	BTB40 H 70 EOC25	2 ÷ 25 mm	60	70
BTB.40.90.EOC32	BTB40 H 90 EOC32	4 ÷ 32 mm	72	90



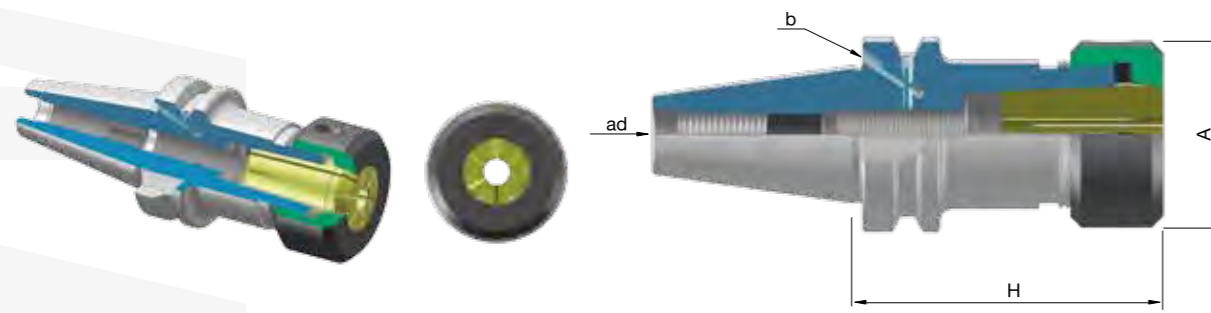
PORTAPINZA PER EOC - COLLET CHUCK FOR EOC - BT30

Cod.	TYPE	CAPACITÀ RANGE	AD	
			G6.3/15000	A
BT.30.60.EOC16	BT30 H60 EOC16	2 ÷ 16 mm	43	60
BT.30.80.EOC25	BT30 H80 EOC25	2 ÷ 25 mm	60	80

PER FRESE WELDON

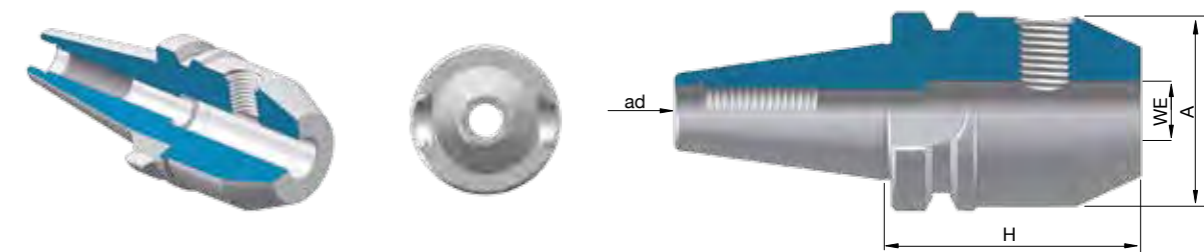
END MILL HOLDERS

MAS 403 - BT / JIS6339



PORTAPINZA PER EOC - COLLET CHUCK FOR EOC - BTB50

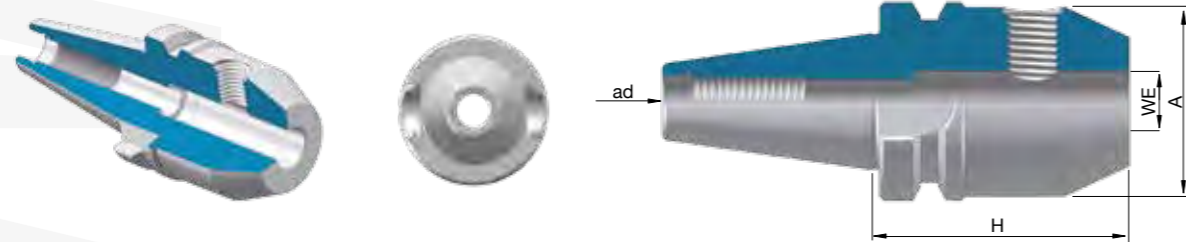
Cod.	TYPE	CAPACITÀ RANGE	AT2		G6.3/15000		AD/B	
			A	H	A	H	A	H
BTB.50.85.EOC25	BTB50 H 85 EOC25	2 ÷ 25 mm	60	85				



PER FRESE WELDON - END MILL HOLDER - BT30

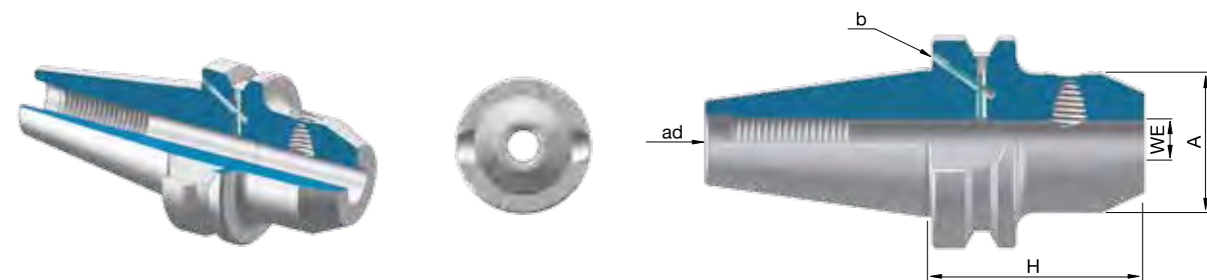
Cod.	TYPE	AT2		G6.3/15000		AD	
		A	H	A	WE	A	WE
BT.30.50.WE6	BT 30 H50 WE 6	25	50		6		
BT.30.100.WE6	BT 30 H100 WE 6	25	100		6		
BT.30.50.WE8	BT 30 H 50 WE 8	28	50		8		
BT.30.100.WE8	BT 30 H100 WE 8	28	100		8		

MAS 403-B



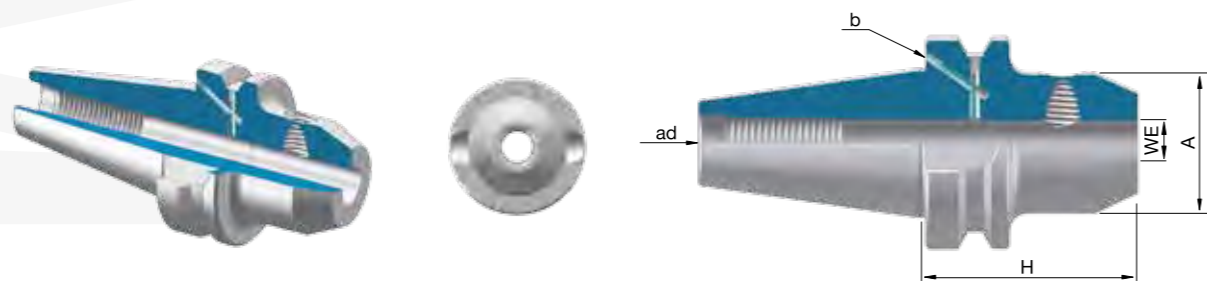
PER FRESE WELDON - END MILL HOLDER - BT30

Cod.	TYPE	AT2 G6.3/15000 AD		
		A	H	WE
BT.30.50.WE10	BT 30 H 50 WE10	35	50	10
BT.30.100.WE10	BT 30 H100 WE10	35	100	10
BT.30.50.WE12	BT 30 H 50 WE12	42	50	12
BT.30.100.WE12	BT 30 H100 WE12	42	100	12
BT.30.50.WE14	BT 30 H 50 WE14	44	50	14
BT.30.100.WE14	BT 30 H100 WE14	44	100	14
BT.30.63.WE16	BT 30 H 63 WE16	48	63	16
BT.30.100.WE16	BT 30 H100 WE16	48	100	16
BT.30.63.WE18	BT 30 H 63 WE18	50	63	18
BT.30.100.WE18	BT 30 H100 WE18	50	100	18
BT.30.63.WE20	BT 30 H 63 WE20	52	63	20
BT.30.100.WE20	BT 30 H100 WE20	52	100	20



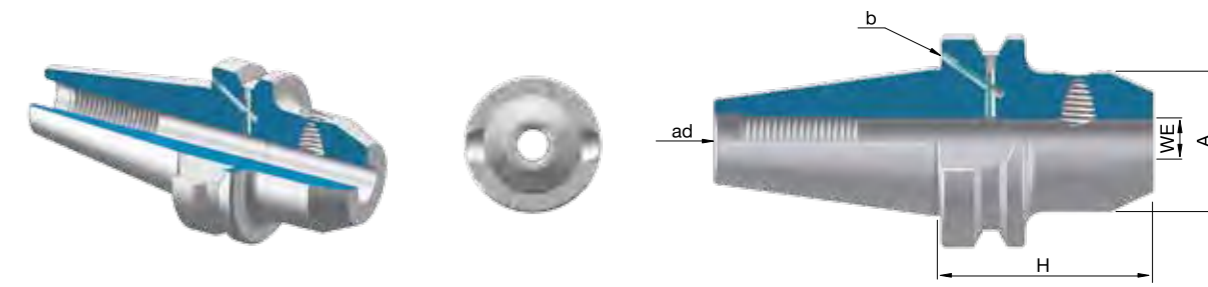
PER FRESE WELDON - END MILL HOLDER - BT40

Cod.	TYPE	AT2 G6.3/15000 AD/B		
		A	H	WE
BTB.40.50.WE6	BTB40 H 50 WE 6	25	50	6
BTB.40.100.WE6	BTB40 H100 WE 6	25	100	6
BTB.40.130.WE6	BTB40 H130 WE 6	25	130	6
BTB.40.160.WE6	BTB40 H160 WE 6	25	160	6
BTB.40.50.WE8	BTB40 H 50 WE 8	28	50	8
BTB.40.100.WE8	BTB40 H100 WE 8	28	100	8
BTB.40.130.WE8	BTB40 H130 WE 8	28	130	8
BTB.40.160.WE8	BTB40 H160 WE 8	28	160	8
BTB.40.63.WE10	BTB40 H 63 WE10	35	63	10
BTB.40.100.WE10	BTB40 H100 WE10	35	100	10
BTB.40.130.WE10	BTB40 H130 WE10	35	130	10
BTB.40.160.WE10	BTB40 H160 WE10	35	160	10
BTB.40.63.WE12	BTB40 H 63 WE12	42	63	12
BTB.40.100.WE12	BTB40 H100 WE12	42	100	12
BTB.40.130.WE12	BTB40 H130 WE12	42	130	12
BTB.40.160.WE12	BTB40 H160 WE12	42	160	12
BTB.40.63.WE14	BTB40 H 63 WE14	44	63	14
BTB.40.100.WE14	BTB40 H100 WE14	44	100	14
BTB.40.130.WE14	BTB40 H130 WE14	44	130	14
BTB.40.160.WE14	BTB40 H160 WE14	44	160	14
BTB.40.63.WE16	BTB40 H 63 WE16	48	63	16
BTB.40.100.WE16	BTB40 H100 WE16	48	100	16
BTB.40.130.WE16	BTB40 H130 WE16	48	130	16
BTB.40.160.WE16	BTB40 H160 WE16	48	160	16
BTB.40.63.WE18	BTB40 H 63 WE18	50	63	18
BTB.40.100.WE18	BTB40 H100 WE18	50	100	18
BTB.40.130.WE18	BTB40 H130 WE18	50	130	18
BTB.40.160.WE18	BTB40 H160 WE18	50	160	18
BTB.40.63.WE20	BTB40 H 63 WE20	52	63	20
BTB.40.100.WE20	BTB40 H100 WE20	52	100	20
BTB.40.130.WE20	BTB40 H130 WE20	52	130	20
BTB.40.160.WE20	BTB40 H160 WE20	52	160	20
BTB.40.90.WE25	BTB40 H90 WE25	65	90	25
BTB.40.130.WE25	BTB40 H130 WE25	65	130	25
BTB.40.160.WE25	BTB40 H160 WE25	65	160	25
BTB.40.100.WE32	BTB40 H100 WE32	72	100	32
BTB.40.130.WE32	BTB40 H130 WE32	72	130	32
BTB.40.160.WE32	BTB40 H160 WE32	72	160	32
BTB.40.120.WE40	BTB40 H120 WE40	80	120	40



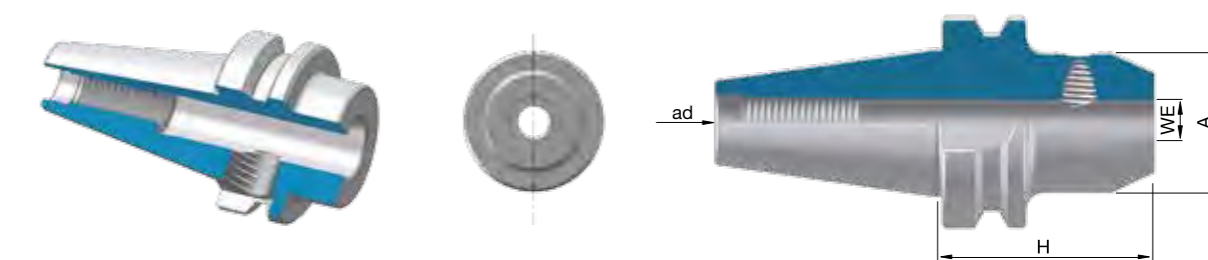
PER FRESE WELDON - END MILL HOLDER - BTB50

Cod.	TYPE	AT2		
		A	H	WE
BTB.50.63.WE6	BTB50 H 63 WE 6	25	63	6
BTB.50.100.WE6	BTB50 H100 WE 6	25	100	6
BTB.50.130.WE6	BTB50 H130 WE 6	25	130	6
BTB.50.160.WE6	BTB50 H160 WE 6	25	160	6
BTB.50.200.WE6	BTB50 H200 WE 6	25	200	6
BTB.50.63.WE8	BTB50 H 63 WE 8	28	63	8
BTB.50.100.WE8	BTB50 H100 WE 8	28	100	8
BTB.50.130.WE8	BTB50 H130 WE 8	28	130	8
BTB.50.160.WE8	BTB50 H160 WE 8	28	160	8
BTB.50.200.WE8	BTB50 H200 WE 8	28	200	8
BTB.50.63.WE10	BTB50 H 63 WE10	35	63	10
BTB.50.100.WE10	BTB50 H100 WE10	35	100	10
BTB.50.130.WE10	BTB50 H130 WE10	35	130	10
BTB.50.160.WE10	BTB50 H160 WE10	35	160	10
BTB.50.200.WE10	BTB50 H200 WE10	35	200	10
BTB.50.80.WE12	BTB50 H 80 WE12	42	80	12
BTB.50.100.WE12	BTB50 H100 WE12	42	100	12
BTB.50.130.WE12	BTB50 H130 WE12	42	130	12
BTB.50.160.WE12	BTB50 H160 WE12	42	160	12
BTB.50.200.WE12	BTB50 H200 WE12	42	200	12
BTB.50.80.WE14	BTB50 H 80 WE14	44	80	14
BTB.50.100.WE14	BTB50 H100 WE14	44	100	14
BTB.50.130.WE14	BTB50 H130 WE14	44	130	14
BTB.50.160.WE14	BTB50 H160 WE14	44	160	14
BTB.50.200.WE14	BTB50 H200 WE14	44	200	14
BTB.50.80.WE16	BTB50 H 80 WE16	48	80	16
BTB.50.100.WE16	BTB50 H100 WE16	48	100	16
BTB.50.130.WE16	BTB50 H130 WE16	48	130	16
BTB.50.160.WE16	BTB50 H160 WE16	48	160	16
BTB.50.200.WE16	BTB50 H200 WE16	48	200	16
BTB.50.80.WE18	BTB50 H 80 WE18	50	80	18
BTB.50.100.WE18	BTB50 H100 WE18	50	100	18
BTB.50.130.WE18	BTB50 H130 WE18	50	130	18
BTB.50.160.WE18	BTB50 H160 WE18	50	160	18
BTB.50.200.WE18	BTB50 H200 WE18	50	200	18
BTB.50.80.WE20	BTB50 H 80 WE20	52	80	20
BTB.50.100.WE20	BTB50 H100 WE20	52	100	20
BTB.50.130.WE20	BTB50 H130 WE20	52	130	20
BTB.50.160.WE20	BTB50 H160 WE20	52	160	20



PER FRESE WELDON - END MILL HOLDER - BTB50

Cod.	TYPE	AT2		
		A	H	WE
BTB.50.200.WE20	BTB50 H200 WE20	52	200	20
BTB.50.100.WE25	BTB50 H100 WE25	65	100	25
BTB.50.130.WE25	BTB50 H130 WE25	65	130	25
BTB.50.160.WE25	BTB50 H160 WE25	65	160	25
BTB.50.200.WE25	BTB50 H200 WE25	65	200	25
BTB.50.105.WE32	BTB50 H105 WE32	72	105	32
BTB.50.130.WE32	BTB50 H130 WE32	72	130	32
BTB.50.160.WE32	BTB50 H160 WE32	72	160	32
BTB.50.200.WE32	BTB50 H200 WE32	72	200	32
BTB.50.120.WE40	BTB50 H120 WE40	80	120	40
BTB.50.160.WE40	BTB50 H160 WE40	80	160	40
BTB.50.200.WE40	BTB50 H200 WE40	80	200	40
BTB.50.125.WE50	BTB50 H125 WE50	90	125	50

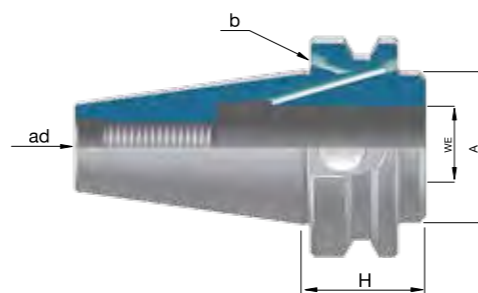


EXTRACORTI PER FRESE WELDON - SHORTS END MILL HOLDER - BT30

Cod.	TYPE	AT2			
		A	SCREWS	H	WE
BT.30.32.WE6	BT30 H32 WE6	25	M6x10	32	6
BT.30.32.WE8	BT30 H32 WE8	28	M8x10	32	8
BT.30.32.WE10	BT30 H32 WE10	32	M10x12	32	10
BT.30.32.WE12	BT30 H32 WE12	32	M12x16	32	12
BT.30.35.WE16	BT30 H35 WE16	32	M14x10	35	16
BT.30.35.WE20	BT30 H35 WE20	36	M16x10	35	20

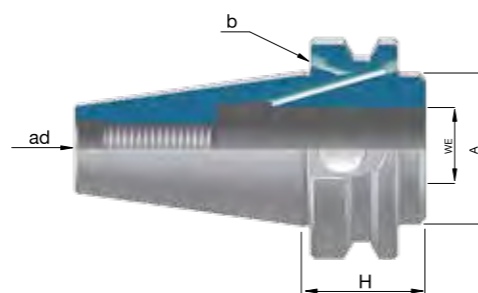
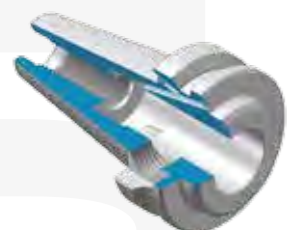
PORTAFRESE FISSI

SHELL END MILL HOLDERS



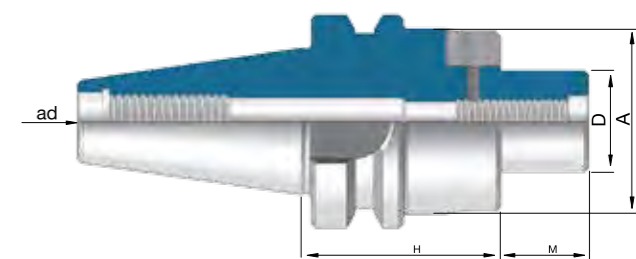
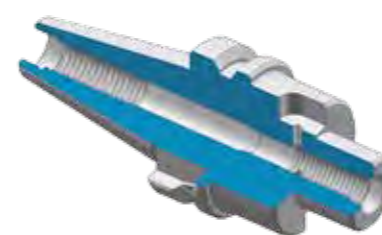
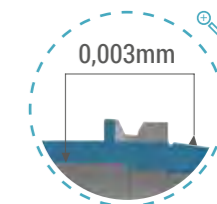
EXTRACORTI PER FRESE WELDON - SHORTS END MILL HOLDER - BTB40

Cod.	TYPE	A	SCREWS	AT2		G6.3/15000		AD/B	
				H	WE	H	WE	H	WE
BTB.40.35.WE16	BTB40 H 35 WE16	43,5	M14x16	35	16				
BTB.40.35.WE20	BTB40 H 35 WE20	43,5	M16x16	35	20				
BTB.40.35.WE25	BTB40 H 35 WE25	43,5	M16x10	35	25				
BTB.40.60.WE25	BTB40 H 60 WE25	50	M18x2x12+ M16x1x8	60	25				
BTB.40.40.WE32	BTB40 H40 WE32	50	M20x2x20+M16x1x8	40	32				
BTB.40.70.WE32	BTB40 H 70 WE32	72	M20x2x20+ M16x1x8	70	32				



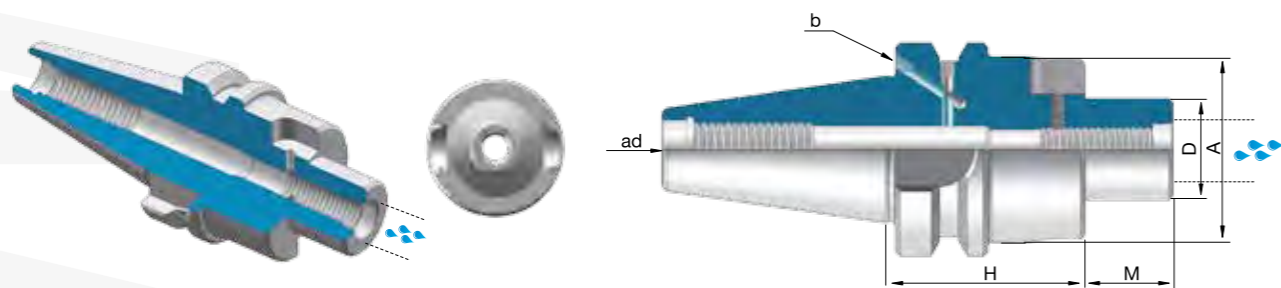
EXTRACORTI PER FRESE WELDON - SHORTS END MILL HOLDER - BTB50

Cod.	TYPE	A	SCREWS	AT2		G6.3/15000		AD/B	
				H	WE	H	WE	H	WE
BTB.50.44.WE16	BTB50 H 44 WE16	70	M14x16	44	16				
BTB.50.44.WE20	BTB50 H 44 WE20	70	M16x16	44	20				
BTB.50.44.WE25	BTB50 H 44 WE25	70	M18x2x20	44	25				
BTB.50.44.WE32	BTB50 H 44 WE32	70	M20x2x20	44	32				
BTB.50.44.WE40	BTB50 H 44 WE40	80	M20x2x20	44	40				



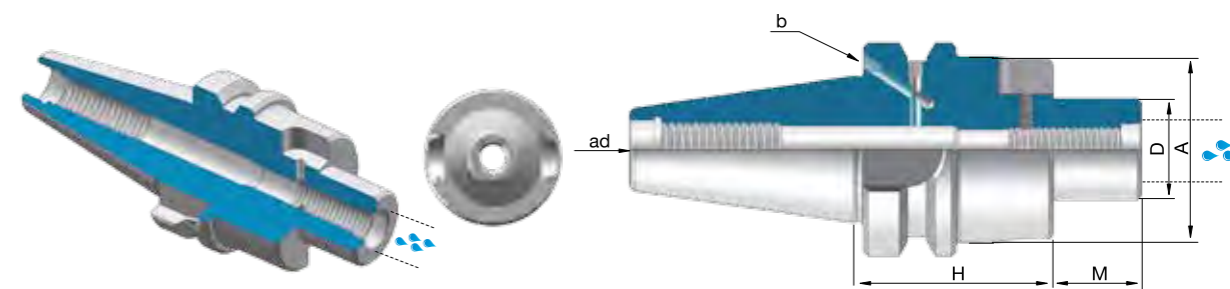
PORTAFRESE FISSI - SHELL END MILL HOLDERS - BT30

Cod.	TYPE	A	AT2		G6.3/15000		AD	
			D	M	H	AD		
BT.30.43.D16S	BT30 H43 D16S	32	16	17	43			
BT.30.43.D22S	BT30 H43 D22S	40	22	19	43			
BT.30.50.D27S	BT30 H50 D27S	50	27	21	50			
BT.30.45.D32S	BT30 H45 D32S	58	32	24	45			



PORTAFRESE FISSI - SHELL END MILL HOLDERS - BTB40

Cod.	TYPE	AD/B			
		AT2	G6.3/15000		
		A	D	M	H
BTB.40.35.D16S	BTB40 H 35 D16S	38	16	17	35
BTB.40.45.D16S	BTB40 H 45 D16S	38	16	17	45
BTB.40.100.D16S	BTB40 H100 D16S	38	16	17	100
BTB.40.130.D16S	BTB40 H130 D16S	38	16	17	130
BTB.40.160.D16S	BTB40 H160 D16S	38	16	17	160
BTB.40.200.D16S	BTB40 H200 D16S	38	16	17	200
BTB.40.35.D22S	BTB40 H 35 D22S	48	22	19	35
BTB.40.45.D22S	BTB40 H 45 D22S	48	22	19	45
BTB.40.100.D22S	BTB40 H100 D22S	48	22	19	100
BTB.40.130.D22S	BTB40 H130 D22S	48	22	19	130
BTB.40.160.D22S	BTB40 H160 D22S	48	22	19	160
BTB.40.200.D22S	BTB40 H200 D22S	48	22	19	200
BTB.40.35.D27S	BTB40 H 35 D27S	58	27	21	35
BTB.40.45.D27S	BTB40 H 45 D27S	58	27	21	45
BTB.40.100.D27S	BTB40 H100 D27S	58	27	21	100
BTB.40.130.D27S	BTB40 H130 D27S	58	27	21	130
BTB.40.160.D27S	BTB40 H160 D27S	58	27	21	160
BTB.40.200.D27S	BTB40 H200 D27S	58	27	21	200
BTB.40.50.D32S	BTB40 H 50 D32S	78	32	24	50
BTB.40.56.D32S	BTB40 H 56 D32S	63	32	24	56
BTB.40.100.D32S	BTB40 H100 D32S	63	32	24	100
BTB.40.130.D32S	BTB40 H130 D32S	63	32	24	130
BTB.40.160.D32S	BTB40 H160 D32S	63	32	24	160
BTB.40.200.D32S	BTB40 H200 D32S	63	32	24	200
BTB.40.50.D40S	BTB40 H 50 D40S	88	40	27	50
BTB.40.60.D40S	BTB40 H 60 D40S	80	40	27	60
BTB.40.100.D40S	BTB40 H100 D40S	80	40	27	100
BTB.40.130.D40S	BTB40 H130 D40S	80	40	27	130
BTB.40.160.D40S	BTB40 H160 D40S	80	40	27	160
BTB.40.200.D40S	BTB40 H200 D40S	80	40	27	200

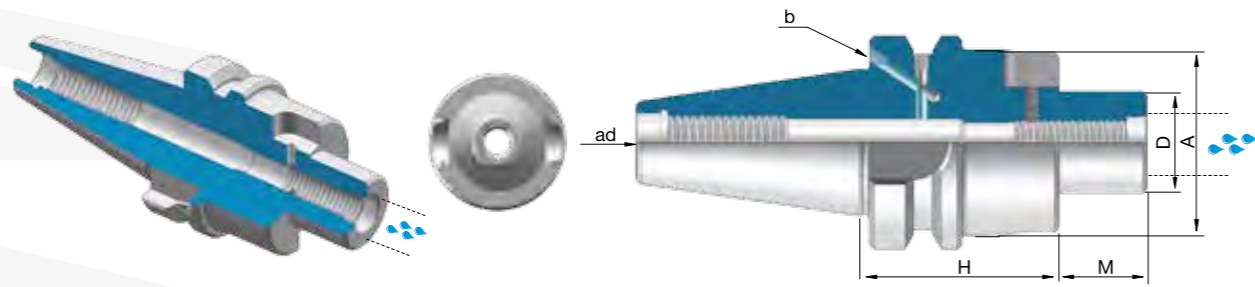


PORTAFRESE FISSI - SHELL END MILL HOLDERS - BTB50

Cod.	TYPE	AD/B			
		AT2	G6.3/15000		
		A	D	M	H
BTB.50.50.D16S	BTB50 H 50 D16S	38	16	17	50
BTB.50.75.D16S	BTB50 H 75 D16S	38	16	17	75
BTB.50.100.D16S	BTB50 H100 D16S	38	16	17	100
BTB.50.130.D16S	BTB50 H130 D16S	38	16	17	130
BTB.50.160.D16S	BTB50 H160 D16S	38	16	17	160
BTB.50.200.D16S	BTB50 H200 D16S	38	16	17	200
BTB.50.250.D16S	BTB50 H250 D16S	38	16	17	250
BTB.50.300.D16S	BTB50 H300 D16S	38	16	17	300
BTB.50.350.D16S	BTB50 H350 D16S	38	16	17	350
BTB.50.55.D22S	BTB50 H 55 D22S	48	22	19	55
BTB.50.75.D22S	BTB50 H 75 D22S	48	22	19	75
BTB.50.100.D22S	BTB50 H100 D22S	48	22	19	100
BTB.50.130.D22S	BTB50 H130 D22S	48	22	19	130
BTB.50.160.D22S	BTB50 H160 D22S	48	22	19	160
BTB.50.200.D22S	BTB50 H200 D22S	48	22	19	200
BTB.50.250.D22S	BTB50 H250 D22S	48	22	19	250
BTB.50.300.D22S	BTB50 H300 D22S	48	22	19	300
BTB.50.350.D22S	BTB50 H350 D22S	48	22	19	350
BTB.50.55.D27S	BTB50 H 55 D27S	58	27	21	55
BTB.50.75.D27S	BTB50 H 75 D27S	58	27	21	75
BTB.50.100.D27S	BTB50 H100 D27S	58	27	21	100
BTB.50.130.D27S	BTB50 H130 D27S	58	27	21	130
BTB.50.160.D27S	BTB50 H160 D27S	58	27	21	160
BTB.50.200.D27S	BTB50 H200 D27S	58	27	21	200
BTB.50.250.D27S	BTB50 H250 D27S	58	27	21	250
BTB.50.300.D27S	BTB50 H300 D27S	58	27	21	300
BTB.50.350.D27S	BTB50 H350 D27S	58	27	21	350
BTB.50.55.D32S	BTB50 H 55 D32S	78	32	24	55
BTB.50.75.D32S	BTB50 H 75 D32S	78	32	24	75
BTB.50.100.D32S	BTB50 H100 D32S	78	32	24	100
BTB.50.130.D32S	BTB50 H130 D32S	78	32	24	130
BTB.50.160.D32S	BTB50 H160 D32S	78	32	24	160
BTB.50.200.D32S	BTB50 H200 D32S	78	32	24	200
BTB.50.250.D32S	BTB50 H250 D32S	78	32	24	250
BTB.50.300.D32S	BTB50 H300 D32S	78	32	24	300
BTB.50.350.D32S	BTB50 H350 D32S	78	32	24	350
BTB.50.55.D40S	BTB50 H 55 D40S	88	40	27	55
BTB.50.75.D40S	BTB50 H 75 D40S	88	40	27	75
BTB.50.100.D40S	BTB50 H100 D40S	88	40	27	100

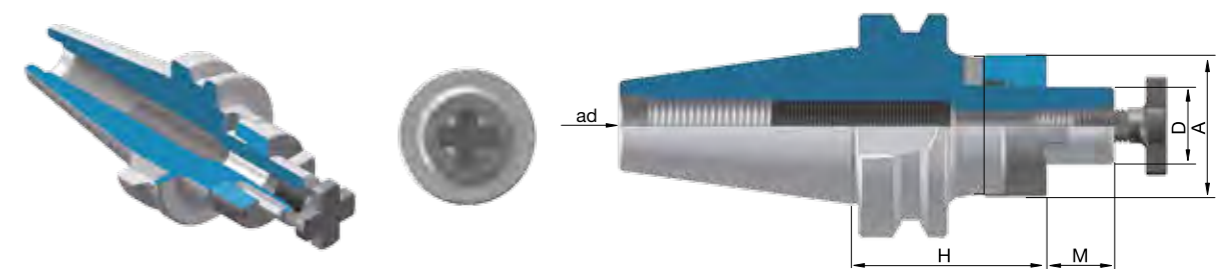
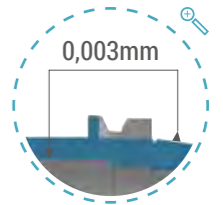
PORTAFRESE COMBINATI

COMBI SHELL END MILL HOLDERS



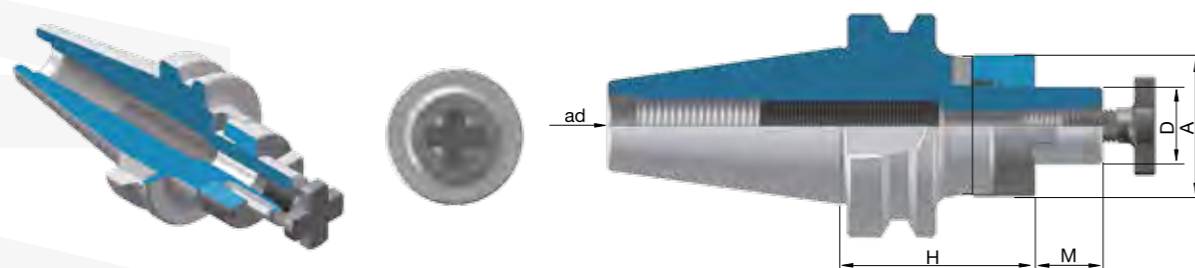
PORTAFRESE FISSI - SHELL END MILL HOLDERS - BT50

Cod.	TYPE	AT2		G6.3/15000		AD/B
		A	D	M	H	
BTB.50.130.D40S	BTB50 H130 D40S	88	40	27	130	
BTB.50.160.D40S	BTB50 H160 D40S	88	40	27	160	
BTB.50.200.D40S	BTB50 H200 D40S	88	40	27	200	



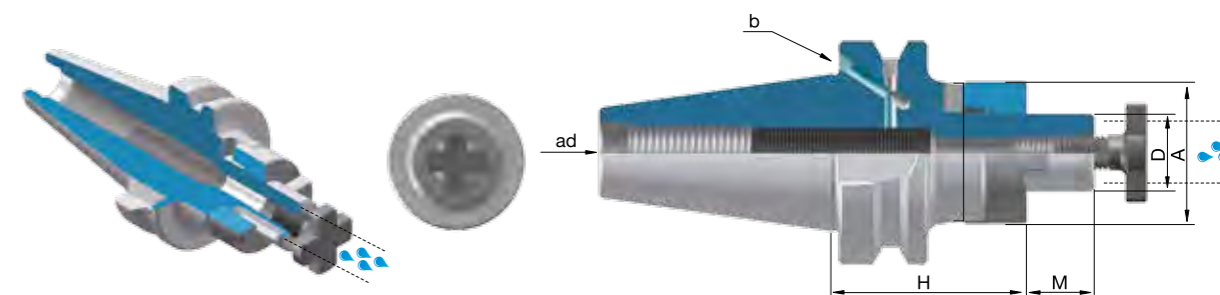
PORTAFRESE COMBINATO - COMBI SHELL END MILL HOLDER - BT30

Cod.	TYPE	AT2		G6.3/15000		AD
		A	D	M	H	
BT.30.50.D13C	BT30 H 50 D13C	28	13	12	50	
BT.30.43.D16C	BT30 H 43 D16C	32	16	17	43	
BT.30.50.D22C	BT30 H 50 D22C	40	22	19	50	
BT.30.50.D27C	BT30 H 50 D27C	48	27	21	50	
BT.30.57.D32C	BT30 H 57 D32C	58	32	24	57	



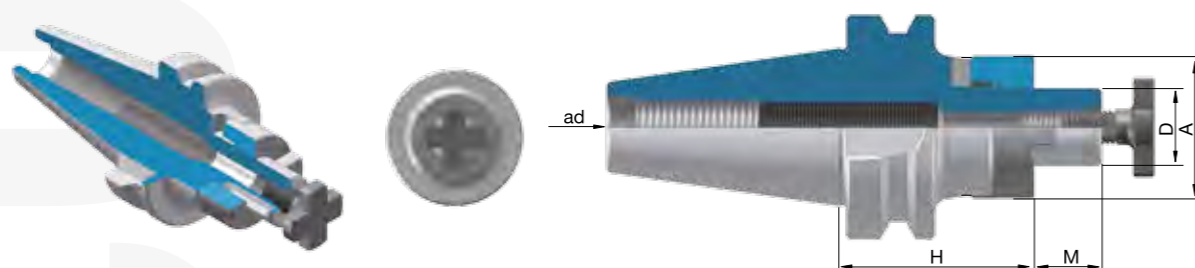
PORTAFRESE COMBINATO - COMBI SHELL END MILL HOLDER - BT40

Cod.	TYPE	AT2 G6.3/15000 AD			
		A	D	M	H
BT.40.100.D13C	BT40 H100 D13C	28	13	12	100
BT.40.55.D16C	BT40 H55 D16C	32	16	17	55
BT.40.100.D16C	BT40 H100 D16C	32	16	17	100
BT.40.55.D22C	BT40 H55 D22C	40	22	19	55
BT.40.100.D22C	BT40 H100 D22C	40	22	19	100
BT.40.55.D27C	BT40 H55 D27C	48	27	21	55
BT.40.100.D27C	BT40 H100 D27C	48	27	21	100
BT.40.60.D32C	BT40 H60 D32C	58	32	24	60
BT.40.100.D32C	BT40 H100 D32C	58	32	24	100
BT.40.60.D40C	BT40 H60 D40C	70	40	27	60
BT.40.100.D40C	BT40 H100 D40C	70	40	27	100



PORTAFRESE COMBINATO - COMBI SHELL END MILL HOLDER - BTB40

Cod.	TYPE	AT2 G6.3/15000 AD/B			
		A	D	M	H
BTB.40.55.D16C	BTB40 H55 D16C	32	16	17	55
BTB.40.100.D16C	BTB40 H100 D16C	32	16	17	100
BTB.40.130.D16C	BTB40 H130 D16C	32	16	17	130
BTB.40.160.D16C	BTB40 H160 D16C	32	16	17	160
BTB.40.200.D16C	BTB40 H200 D16C	32	16	17	200
BTB.40.55.D22C	BTB40 H55 D22C	40	22	19	55
BTB.40.100.D22C	BTB40 H100 D22C	40	22	19	100
BTB.40.130.D22C	BTB40 H130 D22C	40	22	19	130
BTB.40.160.D22C	BTB40 H160 D22C	40	22	19	160
BTB.40.200.D22C	BTB40 H200 D22C	40	22	19	200
BTB.40.55.D27C	BTB40 H55 D27C	48	27	21	55
BTB.40.100.D27C	BTB40 H100 D27C	48	27	21	100
BTB.40.130.D27C	BTB40 H130 D27C	48	27	21	130
BTB.40.160.D27C	BTB40 H160 D27C	48	27	21	160
BTB.40.200.D27C	BTB40 H200 D27C	48	27	21	200
BTB.40.60.D32C	BTB40 H60 D32C	58	32	24	60
BTB.40.100.D32C	BTB40 H100 D32C	58	32	24	100
BTB.40.130.D32C	BTB40 H130 D32C	58	32	24	130
BTB.40.160.D32C	BTB40 H160 D32C	58	32	24	160
BTB.40.200.D32C	BTB40 H200 D32C	58	32	24	200
BTB.40.60.D40C	BTB40 H60 D40C	70	40	27	60
BTB.40.100.D40C	BTB40 H100 D40C	70	40	27	100
BTB.40.130.D40C	BTB40 H130 D40C	70	40	27	130
BTB.40.160.D40C	BTB40 H160 D40C	70	40	27	160
BTB.40.200.D40C	BTB40 H200 D40C	70	40	27	200

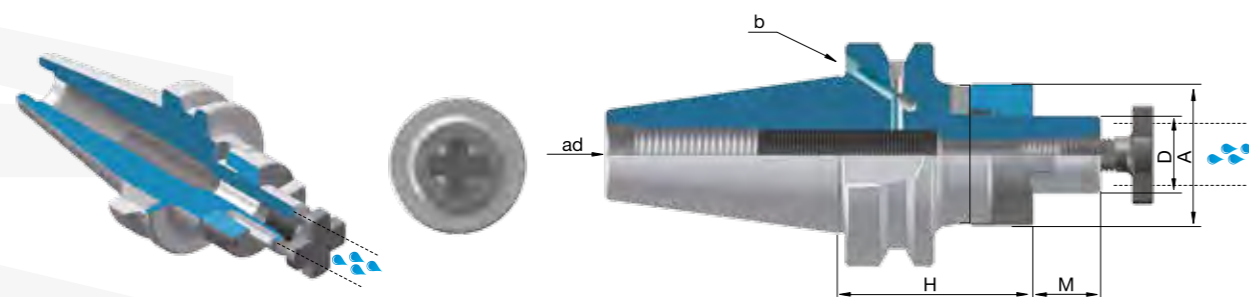


PORTAFRESE COMBINATO - COMBI SHELL END MILL HOLDER - BT50

Cod.	TYPE	AT2 G6.3/15000 AD			
		A	D	M	H
BT.50.70.D16C	BT50 H70 D16C	32	16	17	70
BT.50.70.D22C	BT50 H70 D22C	40	22	19	70
BT.50.70.D27C	BT50 H70 D27C	48	27	21	70
BT.50.70.D32C	BT50 H70 D32C	58	32	24	70
BT.50.70.D40C	BT50 H70 D40C	70	40	27	70

PORTA PUNTE AUTOSERRANTI CON CHIAVE A SETTORE

DRILL CHUCKS WITH HOOK WRENCH



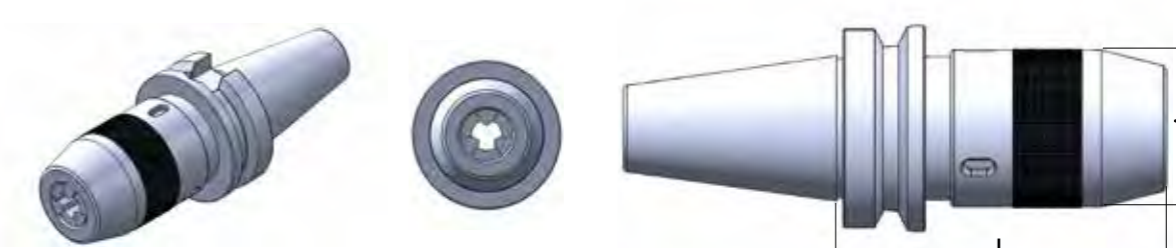
PORTAFRESE COMBINATO - COMBI SHELL END MILL HOLDER - BT50

Cod.	TYPE	AT2		G6.3/15000		AD/B
		A	D	M	H	
BTB.50.70.D16C	BTB50 H70 D16C	32	16	17	70	
BTB.50.100.D16C	BTB50 H100 D16C	32	16	17	100	
BTB.50.130.D16C	BTB50 H130 D16C	32	16	17	130	
BTB.50.160.D16C	BTB50 H160 D16C	32	16	17	160	
BTB.50.200.D16C	BTB50 H200 D16C	32	16	17	200	
BTB.50.70.D22C	BTB50 H70 D22C	40	22	19	70	
BTB.50.100.D22C	BTB50 H100 D22C	40	22	19	100	
BTB.50.130.D22C	BTB50 H130 D22C	40	22	19	130	
BTB.50.160.D22C	BTB50 H160 D22C	40	22	19	160	
BTB.50.200.D22C	BTB50 H200 D22C	40	22	19	200	
BTB.50.70.D27C	BTB50 H70 D27C	48	27	21	70	
BTB.50.100.D27C	BTB50 H100 D27C	48	27	21	100	
BTB.50.130.D27C	BTB50 H130 D27C	48	27	21	130	
BTB.50.160.D27C	BTB50 H160 D27C	48	27	21	160	
BTB.50.200.D27C	BTB50 H200 D27C	48	27	21	200	
BTB.50.70.D32C	BTB50 H70 D32C	58	32	24	70	
BTB.50.100.D32C	BTB50 H100 D32C	58	32	24	100	
BTB.50.130.D32C	BTB50 H130 D32C	58	32	24	130	
BTB.50.160.D32C	BTB50 H160 D32C	58	32	24	160	
BTB.50.200.D32C	BTB50 H200 D32C	58	32	24	200	
BTB.50.70.D40C	BTB50 H70 D40C	70	40	27	70	
BTB.50.100.D40C	BTB50 H100 D40C	70	40	27	100	
BTB.50.130.D40C	BTB50 H130 D40C	70	40	27	130	
BTB.50.160.D40C	BTB50 H160 D40C	70	40	27	160	
BTB.50.200.D40C	BTB50 H200 D40C	70	40	27	200	



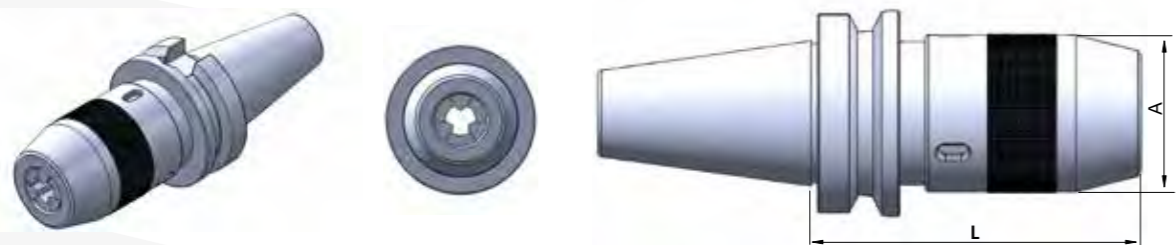
AUTOSERRANTI CON CHIAVE A SETTORE - DRILL CHUCK- BT30

Cod.	TYPE	AT2		G6.3/12000		AD
		CAPACITÀ RANGE	A	L		
BT.30.80.DCK8	BT30 H80 DCK 8	1 ÷ 8 mm	37	80		
BT.30.110.DCK13	BT30 H110 DCK13	1 ÷ 13 mm	50	110		



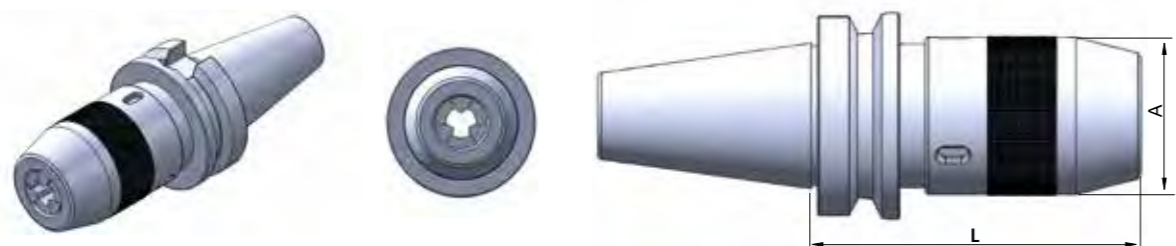
PORTA PUNTE AUTOSERRANTI CON CHIAVE ESAGONALE

DRILL CHUCKS WITH HEX KEY



AUTOSERRANTI CON CHIAVE A SETTORE - DRILL CHUCK- BT40

Cod.	TYPE	AT2 G6.3/12000 AD		
		CAPACITÀ RANGE	A	L
BT.40.85.DCK8	BT40 H85 DCK 8	1 ÷ 8 mm	37	85
BT.40.98.DCK13	BT40 H98 DCK13	1 ÷ 13 mm	50	98
BT.40.105.DCK16	BT40 H105 DCK16	3 ÷ 16 mm	58	105

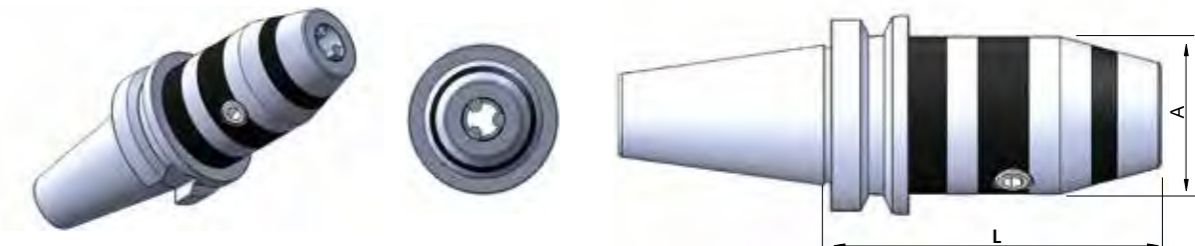
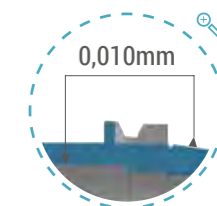


AUTOSERRANTI CON CHIAVE A SETTORE - DRILL CHUCK- BT50

Cod.	TYPE	AT2 G6.3/12000 AD		
		CAPACITÀ RANGE	A	L
BT.50.105.DCK13	BT50 H105 DCK13	1 ÷ 13 mm	50	105
BT.50.115.DCK16	BT50 H115 DCK16	3 ÷ 16 mm	58	115

RICAMBI AUTOSERRANTI CHIAVE A SETTORE - SPARE PARTS FOR DRILL CHUCK

Cod.	TYPE
RIC.DCK8	RICAMBI PER / SPARE PARTS FOR DCK8
RIC.DCK13	RICAMBI PER / SPARE PARTS FOR DCK13
RIC.DCK16	RICAMBI PER / SPARE PARTS FOR DCK16

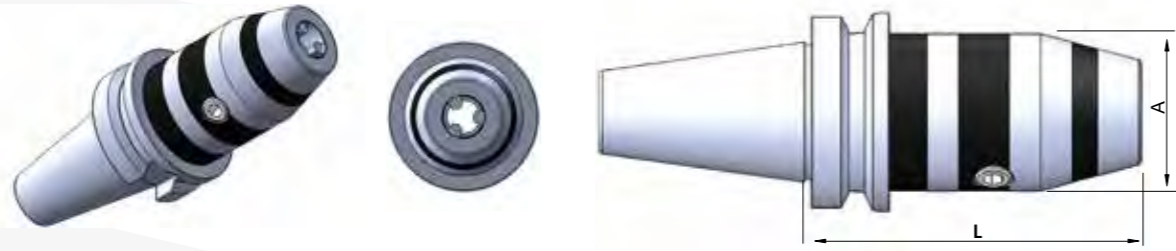


PORTAPUNTE CON CHIAVE ESAGONALE - DRILL CHUCK FOR HEX KEY - BT40

Cod.	TYPE	AT2 G6.3/12000 AD		
		CAPACITÀ RANGE	L	A
BT.40.98.HD13	BT40 H98 HD13	1 ÷ 13 mm	98	50
BT.40.103.HD16	BT40 H103 HD16	3 ÷ 16 mm	103	58

CONO MORSE PUNTE / FRESE

MORSE TAPER ADAPTERS FOR DRILLS / FOR MILLS



PORTAPUNTE CON CHIAVE ESAGONALE - DRILL CHUCK FOR HEX KEY - BT50

Cod.	TYPE	AT2 G6.3/12000 AD		
		CAPACITÀ RANGE	L	A
BT50.109.HD13	BT50 H109 HD13	1 ÷ 13 mm	109	50
BT50.114.HD16	BT50 H114 HD16	3 ÷ 16 mm	114	58

RICAMBI PORTAPUNTE - SPARE PARTS FOR DRILL CHUCK HEX KEY

Cod.	TYPE
RIC.HD13	RICAMBI PER/SPARE PARTS FOR HD13
RIC.HD16	RICAMBI PER/SPARE PARTS FOR HD16



CONO MORSE PER PUNTE - MORSE TAPER FOR DRILLS - BT30

Cod.	TYPE	AT2 G6.3/15000 AD		
		A	L	H
BT.30.45.CM1P	BT30 H45 CM1 P	25	23	45
BT.30.60.CM2P	BT30 H60 CM2 P	32	38	60
BT.30.75.CM3P	BT30 H75 CM3 P	40	53	75



CONO MORSE PER PUNTE - MORSE TAPER FOR DRILLS - BT40

Cod.	TYPE	AT2			G6.3/15000			AD		
		A	L	H	A	L	H	A	L	H
BT.40.50.CM1P	BT40 H50 CM1 P	25	23	50						
BT.40.50.CM2P	BT40 H50 CM2 P	32	23	50						
BT.40.70.CM3P	BT40 H70 CM3 P	40	43	70						
BT.40.95.CM4P	BT40 H95 CM4 P	48	68	95						



CONO MORSE PER FRESE - MORSE TAPER FOR MILLS - BT40

Cod.	TYPE	AT2			G6.3/15000			AD		
		A	M	L	H	A	M	L	H	
BT.40.50.CM1F	BT40 H50 CM1 FV	25	M6	23	50					
BT.40.50.CM2F	BT40 H50 CM2 FV	32	M10	23	50					
BT.40.70.CM3F	BT40 H70 CM3 FV	40	M12	43	70					
BT.40.95.CM4F	BT40 H95 CM4 FV	48	M16	68	95					
BT.40.110.CM4F	BT40 H110 CM4 FV	48	M16	83	110					



CONO MORSE PER PUNTE - MORSE TAPER FOR DRILLS - BT50

Cod.	TYPE	AT2			G6.3/15000			AD		
		A	L	H	A	L	H	A	L	H
BT.50.45.CM1P	BT50 H45 CM1 P	25	7	45						
BT.50.120.CM1P	BT50 H120 CM1 P	25	82	120						
BT.50.60.CM2P	BT50 H60 CM2 P	32	22	60						
BT.50.135.CM2P	BT50 H135 CM2 P	32	97	135						
BT.50.65.CM3P	BT50 H65 CM3 P	40	27	65						
BT.50.155.CM3P	BT50 H155 CM3 P	40	117	155						
BT.50.95.CM4P	BT50 H95 CM4 P	40	57	95						
BT.50.180.CM4P	BT50 H180 CM4 P	48	142	180						
BT.50.105.CM5P	BT50 H105 CM5 P	48	67	105						
BT.50.215.CM5P	BT50 H215 CM5 P	48	177	215						

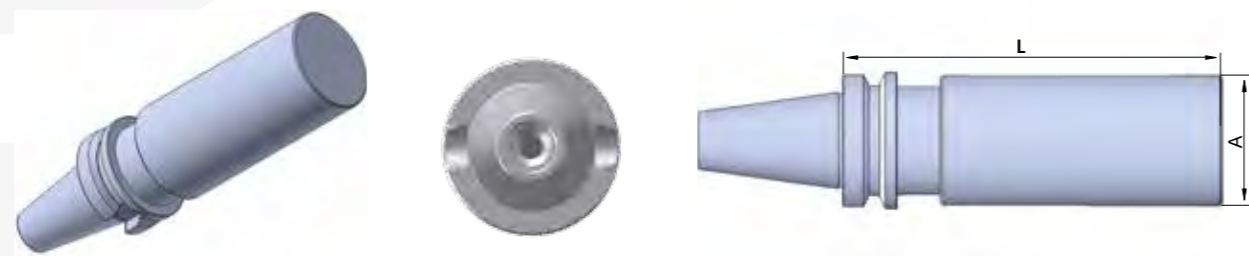


CONO MORSE PER FRESE - MORSE TAPER FOR MILLS - BT50

Cod.	TYPE	AT2			G6.3/15000			AD		
		A	M	L	H	A	M	L	H	
BT.50.45.CM1F	BT50 H45 CM1 FV	25	M6	7	45					
BT.50.60.CM2F	BT50 H60 CM2 FV	32	M10	22	60					
BT.50.65.CM3F	BT50 H65 CM3 FV	40	M12	27	65					
BT.50.70.CM4F	BT50 H70 CM4 FV	48	M16	32	70					
BT.50.85.CM4F	BT50 H85 CM4 FV	48	M16	47	85					
BT.50.100.CM5F	BT50 H100 CM5 FV	63	M20	62	100					
BT.50.118.CM5F	BT50 H118 CM5 FV	63	M20	80	118					

STELO TENERO LAVORABILE

BLANK ARBORS



STELO TENERO LAVORABILE - BLANK ARBORS - BT40-BT50

Cod.	TYPE	A	L	AT2	AD	42HRC
BT.40.250.D40BL	BT40 H250 D40	40	250			
BT.40.250.D63BL	BT40 H250 D63	63	250			
BT.50.315.D97BL	BT50 H315 D97	97	315			

BARRA DI CONTROLLO

TEST ARBORS



BARRE DI CONTROLLO - TEST ARBORS - BT30- BT40 - BT50

Cod.	TYPE	A	L	AT2	AD
BT.30.200.D32	BT30 H200 D32	32	200		
BT.40.300.D40	BT40 H300 D40	40	300		
BT.50.300.D50	BT50 H300 D50	50	300		

FORNITO COMPLETO DI CERTIFICATO E COFANETTO IN LEGNO
PROVIDED WITH WOODEN BOX AND SPECIFIC CERTIFICATE