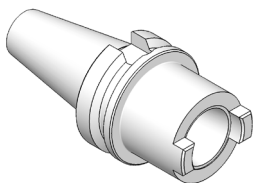


INDICE DELL' ATTACCO BT (JIS-B 6339 / MAS 403 BT)

INDEX OF BT (JIS-B 6339/MAS 403 BT) SHANK

RIDUZIONI DA BT A ISO/TC/BT E HSK

BT ADAPTERS TO
ISO/TC/BT AND HSK

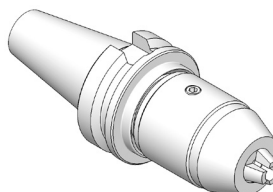


Programma
completo
a pag.

117

AUTOSERRANTI INTEGRALI

MONOLITHIC DRILL CHUCKS

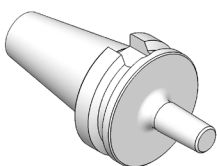


Programma
completo
a pag.

118

ATTACCHI PER MANDRINI PORTAPUNTA DIN 238

SHANKS FOR DRILL CHUCKS
DIN 238 TYPE

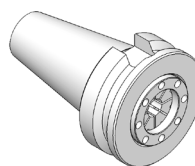


Programma
completo
a pag.

119

PORTAPINZA ER EXTRACORTI

ER-DIN 6499 COLLET CHUCKS
WITH INSIDE NUT

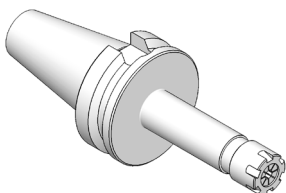


Programma
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a pag.

119

PORTAPINZA ER CON GHIERA MINI

ER-DIN 6499 COLLET CHUCKS
WITH MINI NUT

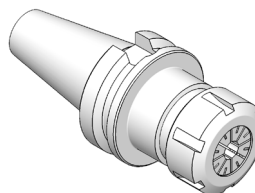


Programma
completo
a pag.

120

PORTAPINZA ER CON GHIERA STANDARD

ER-DIN 6499 COLLET CHUCKS
WITH STANDARD NUT

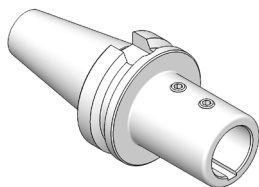


Programma
completo
da pag.

122

PORTA MANDRINI CON ATTACCO TRAPEZIO DIN 6327

AUTOMOTIVES SHANK HOLDERS
ACCORDING TO DIN 6327

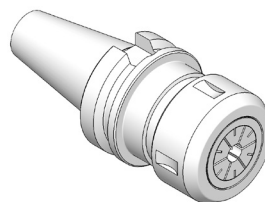


Programma
completo
a pag.

125

MANDRINI PER PINZE EOC DIN 6388

DIN 6388 COLLET CHUCKS

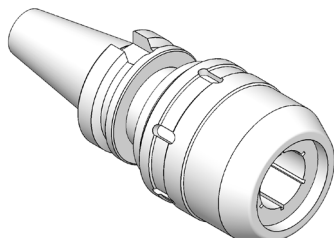


Programma
completo
a pag.

125

MANDRINI A FORTE SERRAGGIO

HIGH GRIP CHUCKS

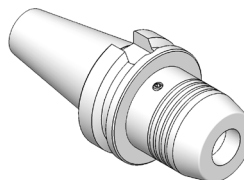


Programma
completo
a pag.

126

MANDRINI A SERRAGGIO IDRAULICO

HYDRAULIC CHUCKS



Programma
completo
a pag.

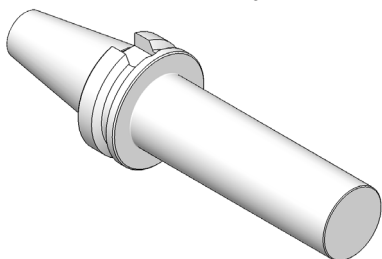
127

INDICE DELL' ATTACCO BT (JIS-B 6339 / MAS 403 BT)

INDEX OF BT (JIS-B 6339/MAS 403 BT) SHANK

BARRE A STELO TENERO

BLANK BARS

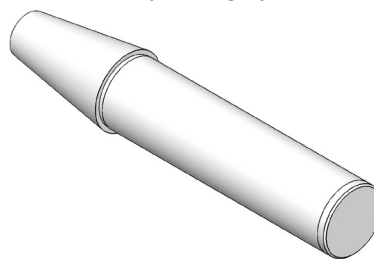


Programma
completo
a pag.

128

BARRE DI CONTROLLO

TEST ARBORS

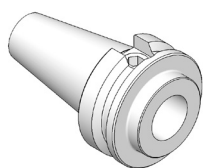


Programma
completo
a pag.

128

PORTAFRESE WELDON TIPO EXTRACORTO

SHORT TYPE END MILL HOLDERS
FOR DIN 1835-B SHANKS

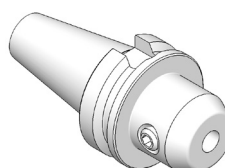


Programma
completo
a pag.

129

PORTAFRESE WELDON

END MILL HOLDERS
FOR DIN 1835-B SHANKS

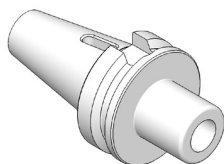


Programma
completo
da pag.

130

RIDUZIONI A CONO MORSE

ADAPTERS TO MORSE TAPER

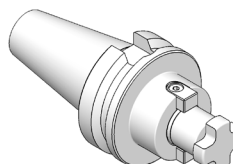


Programma
completo
da pag.

134

PORTAFRESE FISSI

DIN 6357
FACE MILL HOLDERS

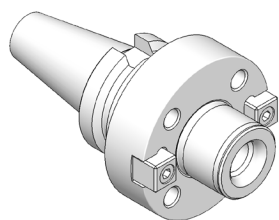


Programma
completo
da pag.

136

ATTACCHI PER FRESE AD INSERTI

FACE MILL HOLDERS FOR
FACE MILLING CUTTERS

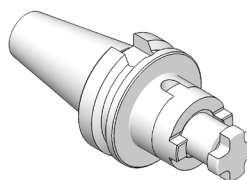


Programma
completo
a pag.

138

PORTAFRESE COMBINATI

DIN 6358 SHELL END
MILL HOLDERS

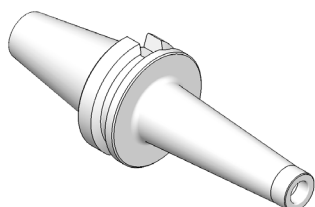


Programma
completo
a pag.

139

MANDRINI PER FRESE CON ATTACCO FILETTATO

CHUCKS FOR MILLING CUTTERS
WITH THREADED SHANK

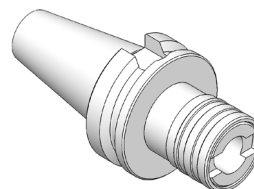


Programma
completo
a pag.

140

MASCHIATORI A CAMBIO RAPIDO

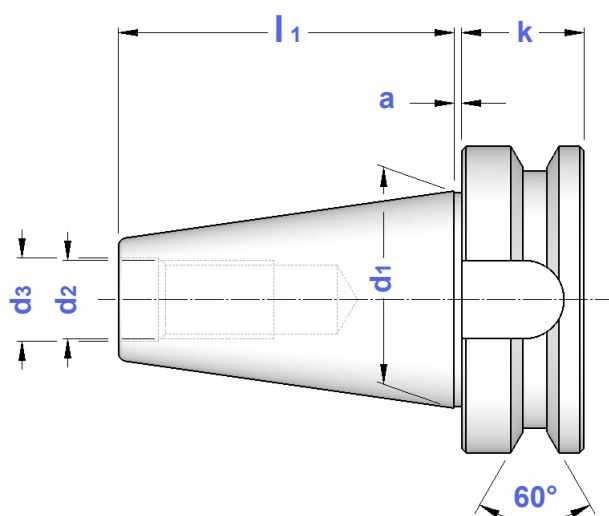
QUICK CHANGE TAP HOLDERS



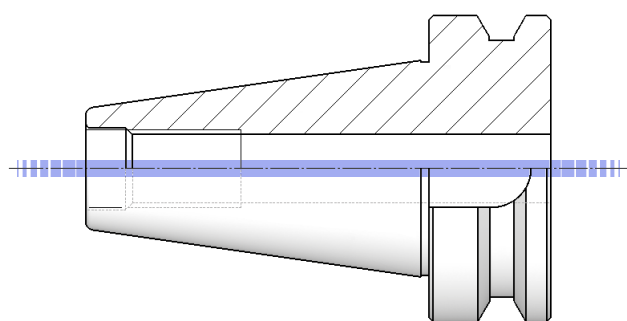
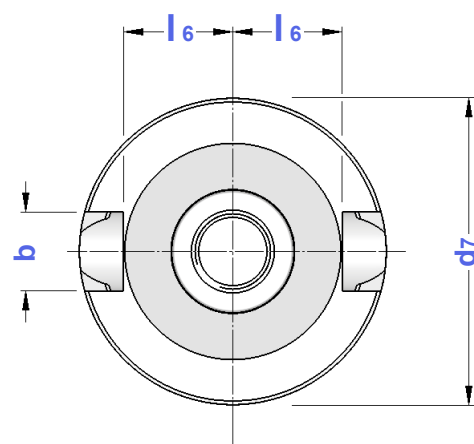
Programma
completo
a pag.

141

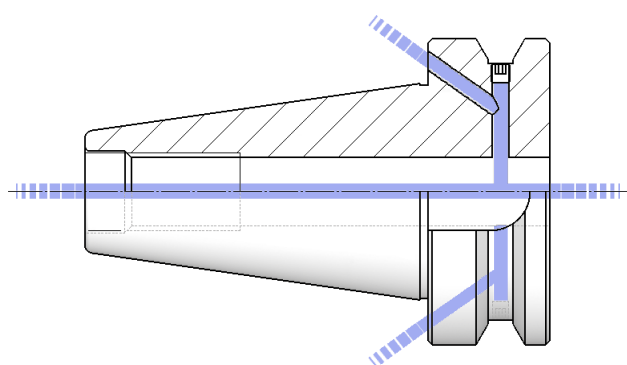
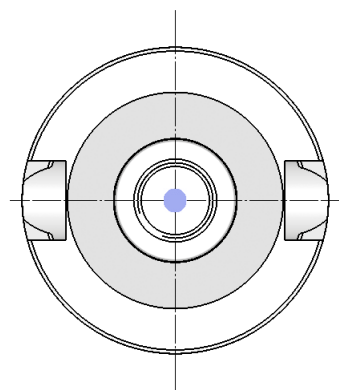
CARATTERISTICHE TECNICHE CONI BT (JIS-B 6339 / MAS 403 BT)
BT TAPER STANDARD FEATURES



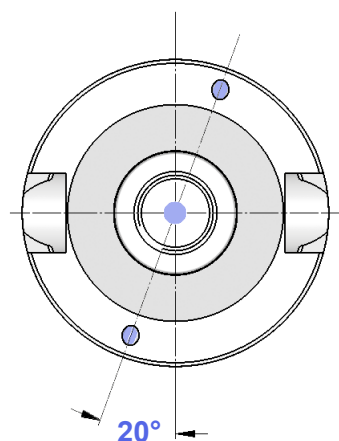
**FORMA
A**



**FORMA
AD**



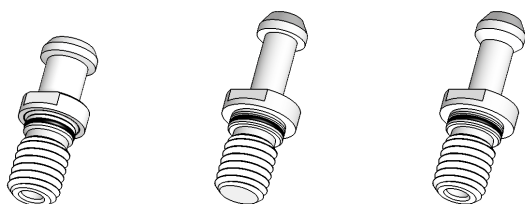
**FORMA
AD+B**



CONO	a	b	d1	d2	d3	d7	k	l1	l6	PRECISIONE
BT 30	2	16,1	31,75	M 12	12,5	46	20	48,4	16,3	
BT 35 /1	2	14,1	38,10	M 12	12,5	53	20	56,4	19,6	
BT 35 /2	2	16,1	38,10	M 12	12,5	53	22	56,4	19,6	
BT 40	2	16,1	44,45	M 16	17,0	63	25	65,4	22,6	
BT 45	3	19,3	57,15	M 20	21,0	85	30	82,8	29,1	
BT 50	3	25,7	69,85	M 24	25,0	100	35	101,8	35,4	

CODOLI DI AGGANCIO

PULL STUD BOLTS



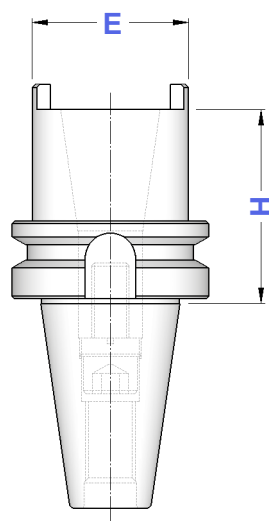
Codoli di aggancio da pag. 176 a pag. 185
del Catalogo Generale

Pull stud bolts on General Catalogue
from page 176 to page 185

BT

RIDUZIONI DA BT A ISO/TC/BT
BT TO ISO/TC/BT ADAPTERS

FORMA A

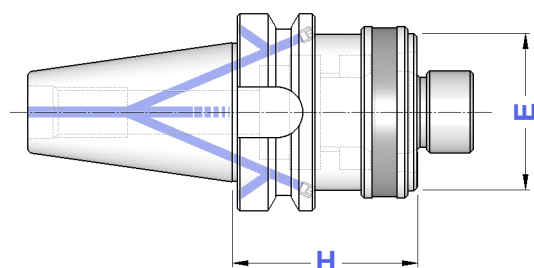


TIPO	FORMA A	H	E				
	Art.				DIN 2080	BT DIN 69871	
BT 40 - ISO 30/TC 30/BT 30	4180	63	50	7423	7410	0177	4570
BT 40 - ISO 40/TC 40/BT 40	8707	100	68	7424	7411	0179	4571
BT 50 - ISO 40/TC 40/BT 40	4273	70	68	7424	7411	0179	4571
BT 50 - ISO 50/TC 50/BT 50	8708	120	100	7426	7417	0254	4780

BT

RIDUZIONI DA BT AD HSK A+C
BT TO HSK A+C ADAPTERS

FORMA B (AD+B)



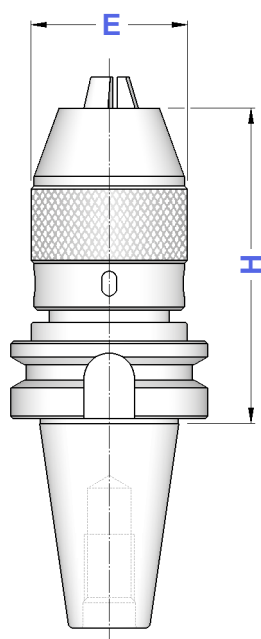
TIPO	FORMA B	H	E
	Art.		
BT 40 - HSK 50 A+C	8709	60	50
BT 40 - HSK 63 A+C	8710	80	63
BT 50 - HSK 63 A+C	8712	70	63

BT

MANDRINI AUTOSERRANTI INTEGRALI
ROTAZIONE DESTRA
 MONOLITHIC DRILL CHUCKS - RIGHT SPIN

FORMA A

Balanced G 6,3
 12.000 rpm

**FORMA A**

TIPO	Art.	CAPACITA'	E	H			
BT 30 - DC 13	8593	1 ÷ 13	50	100	9016	9021	2370
BT 40 - DC 13	4392	1 ÷ 13	50	95	9016	9021	2370
BT 40 - DC 16	4393	3 ÷ 16	57	116	9017	9023	2371
BT 50 - DC 13	4394	1 ÷ 13	50	110	9016	9021	2370
BT 50 - DC 16	4395	3 ÷ 16	57	110	9017	9023	2371

Precisione di rotazione: 0,05 mm

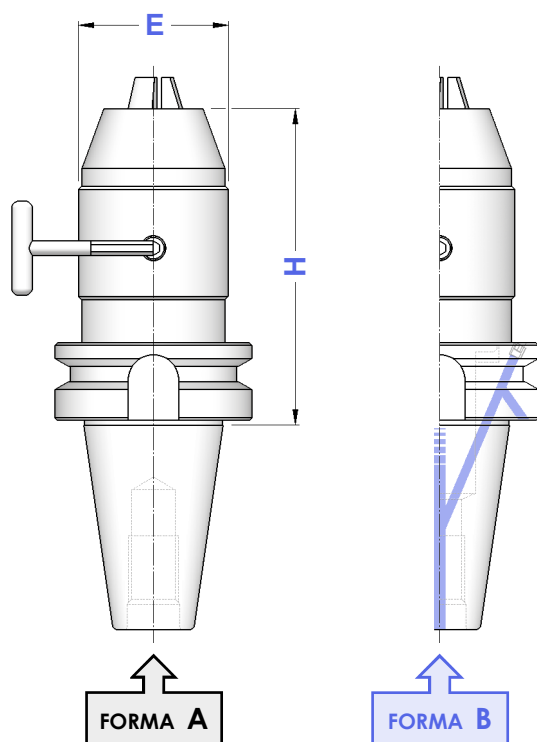
Runout accuracy: 0,05 mm

BT

MANDRINI AUTOSERRANTI INTEGRALI
ROTAZIONE DESTRA E SINISTRA
 MONOLITHIC DRILL CHUCKS - RIGHT & LEFT SPIN

FORMA A**FORMA B (AD+B)**

Balanced G 6,3
 12.000 rpm



FORMA A
FORMA B

TIPO	Art.	Art.	CAPACITA'	E	H	
BT 30 - DCU 13	8594	—	1 ÷ 13	50	110	2372
BT 40 - DCU 13	8595	8599	1 ÷ 13	50	98	2372
BT 40 - DCU 16	8596	8600	3 ÷ 16	50	103	
BT 50 - DCU 13	8597	8601	1 ÷ 13	50	109	2372
BT 50 - DCU 16	8598	8602	3 ÷ 16	50	114	

Precisione di rotazione: 0,05 mm

Runout accuracy: 0,05 mm

BT**ATTACCHI PER MANDRINI PORTAPUNTA DIN 238**

SHANKS FOR DRILL CHUCKS DIN 238 TYPE

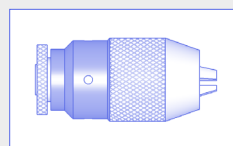
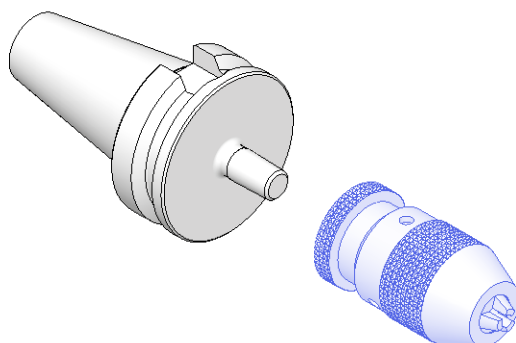
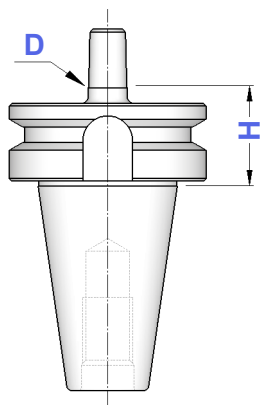
FORMA A

Balanced G 6,3

8.000 rpm

FORMA A

TIPO	Art.	D	H
BT 30 - B 12	3862	12,065	40
BT 30 - B 16	3994	15,733	40
BT 40 - B 12	3865	12,065	40
BT 40 - B 16	3866	15,733	40
BT 40 - B 18	3995	17,780	40
BT 50 - B 16	3996	15,733	50
BT 50 - B 18	3997	17,780	50



**I Mandrini Autoserranti
si trovano a pagina 69
del Catalogo Generale**

*Keyless Drill Chucks
you can find on
General Catalogue page 69*

BT**PORTAPINZA ER EXTRACORTI**

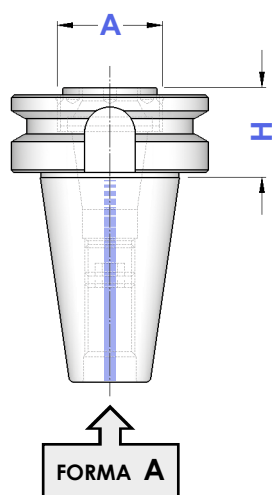
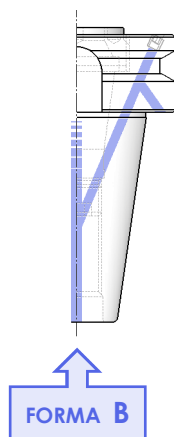
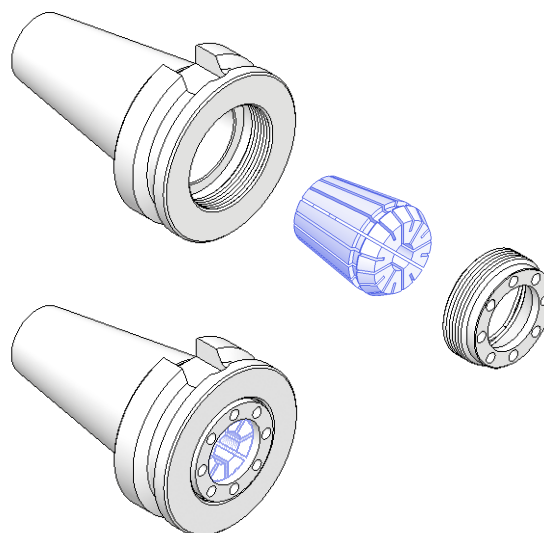
ER - DIN 6499 COLLET CHUCKS WITH INSIDE NUT

FORMA A (AD)**FORMA B (AD+B)**

Balanced G 6,3

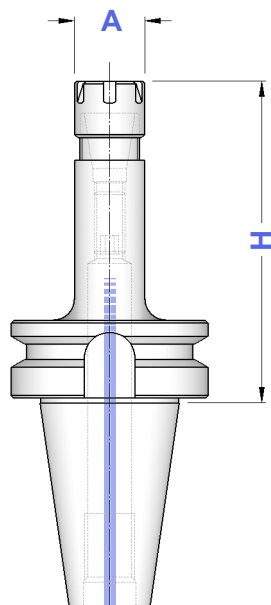
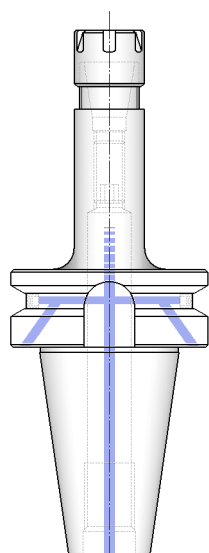
12.000 rpm

	FORMA A	FORMA B							
TIPO	Art.	Art.	H	A	CAPACITA'				
BT 40 - ER 25 GA	8041	8042	29	M 32 x1,5	1 ÷ 16	0073	2870	3172	0996
BT 40 - ER 32 GA	3067	—	29	M 40 x1,5	2 ÷ 20	0073	2871	3173	0988
BT 50 - ER 32 GA	3068	8043	40	M 40 x1,5	2 ÷ 20	0191	2871	3173	0988

**FORMA A****FORMA B**

BT
PORTAPINZE ER - GHIERA MINI
 ER - DIN 6499 COLLET CHUCKS WITH MINI NUT
FORMA A (AD)**FORMA B (AD+B)**

Balanced	G 6,3
≤ H100	12.000 rpm
> H100	8.000 rpm

**FORMA A****FORMA B**

TIPO	FORMA A	FORMA B	A	CAPACITA'				
	Art.	Art.						
BT 30 - ER 11 GM / H 80	3329	—	16	1 ÷ 7	0181	0432	5718	5573
BT 30 - ER 16 GM / H 80	3039	—	22	1 ÷ 10	0183	1229	5719	0364
BT 30 - ER 16 GM / H 120	3454	—						
BT 40 - ER 11 GM / H 70	3271	4855	16	1 ÷ 7	0181	0432	5718	5573
BT 40 - ER 11 GM / H 100	3174	4856						
BT 40 - ER 11 GM / H 130	3272	4857						
BT 40 - ER 11 GM / H 160	4687	4858						
BT 40 - ER 16 GM / H 70	3455	4859	22	1 ÷ 10	0186	1229	5719	0364
BT 40 - ER 16 GM / H 100	3456	4860						
BT 40 - ER 16 GM / H 130	3457	4861						
BT 40 - ER 16 GM / H 160	4688	4862						
BT 40 - ER 16 GM / H 200	4781	4812						
BT 40 - ER 20 GM / H 70	3041	4501	28	1 ÷ 13	0188	1230	5720	0787
BT 40 - ER 20 GM / H 100	3461	4863						
BT 40 - ER 20 GM / H 130	3458	4864						
BT 40 - ER 20 GM / H 160	4689	4865						
BT 40 - ER 20 GM / H 200	4782	4813						
BT 40 - ER 25 GM / H 70	3043	4656	35	1 ÷ 16	0190	1231	5721	0996
BT 40 - ER 25 GM / H 100	3175	4866						
BT 40 - ER 25 GM / H 130	4690	4867						
BT 40 - ER 25 GM / H 160	3459	4868						
BT 40 - ER 25 GM / H 200	3460	4814						
BT 50 - ER 16 GM / H 130	3463	4869	22	1 ÷ 10	0186	1229	5719	0364
BT 50 - ER 16 GM / H 160	3494	4833						
BT 50 - ER 16 GM / H 200	3495	4834						
BT 50 - ER 20 GM / H 130	3464	4870	28	1 ÷ 13	0188	1230	5720	0787
BT 50 - ER 20 GM / H 160	3045	4657						
BT 50 - ER 20 GM / H 200	3048	4658						
BT 50 - ER 25 GM / H 130	3051	4659	35	1 ÷ 16	0190	1231	5721	0996
BT 50 - ER 25 GM / H 160	3462	4871						
BT 50 - ER 25 GM / H 200	3061	4660						

**Dove trovare questi Articoli
nel Catalogo Generale**
*Where to find those Items
on General Catalogue*

Pinze ER - da pag. 8
ER Collets - from page 8

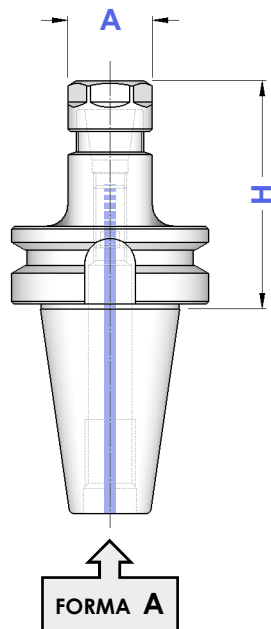
Ghiere ER - da pag. 20
ER Nuts - from page 20

Chiavi ER - pag. 25
ER Wrenches - page 25

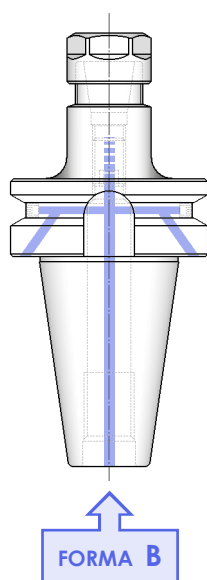
Grani di presettaggio da pag. 197
Presetting screws from page 197

BT
PORTAPINZE ER - GHIERA ESAGONALE
 ER - DIN 6499 COLLET CHUCKS WITH HEXAGONAL NUT
FORMA A (AD)**FORMA B (AD+B)**

Balanced	G 6,3
≤ H100	12.000 rpm
> H100	8.000 rpm



TIPO	FORMA A	FORMA B							
	Art.	Art.	A	CAPACITA'					
BT 30 - ER 16 GE/H 55 BT 30 - ER 16 GE/H 100	8084 8085	—	28	1 ÷ 10	0183	1214	2906	0364	
BT 30 - ER 20 GE/H 55 BT 30 - ER 20 GE/H 100	8086 8087	—	34	1 ÷ 13	0183	1215	2907	0787	
BT 40 - ER 11 GE/H 70 BT 40 - ER 11 GE/H 100 BT 40 - ER 11 GE/H 130 BT 40 - ER 11 GE/H 160	3447 3448 3449 3450	4843 4844 4845 4846	19	1 ÷ 7	0181	1157	2905	5573	
BT 40 - ER 16 GE/H 70 BT 40 - ER 16 GE/H 100 BT 40 - ER 16 GE/H 130 BT 40 - ER 16 GE/H 160 BT 40 - ER 16 GE/H 200	8088 8089 8090 8091 8092	8104 8105 8106 8107 8108	28	1 ÷ 10	0186	1214	2906	0364	
BT 40 - ER 20 GE/H 70 BT 40 - ER 20 GE/H 100 BT 40 - ER 20 GE/H 130 BT 40 - ER 20 GE/H 160 BT 40 - ER 20 GE/H 200	8093 8094 8095 8096 8097	8109 8110 8111 8112 8113	34	1 ÷ 13	0188	1215	2907	0787	
BT 50 - ER 16 GE/H 100 BT 50 - ER 16 GE/H 160 BT 50 - ER 16 GE/H 200	8098 8099 8100	8114 8115 8116	28	1 ÷ 10	0186	1214	2906	0364	
BT 50 - ER 20 GE/H 100 BT 50 - ER 20 GE/H 160 BT 50 - ER 20 GE/H 200	8101 8102 8103	8117 8118 8119	34	1 ÷ 13	0188	1215	2907	0787	


**Dove trovare questi Articoli
nel Catalogo Generale**
*Where to find those Items
on General Catalogue*

Pinze ER - da pag. 8
ER Collets - from page 8

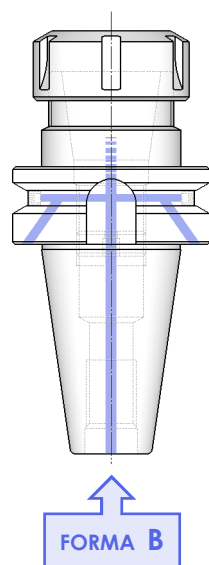
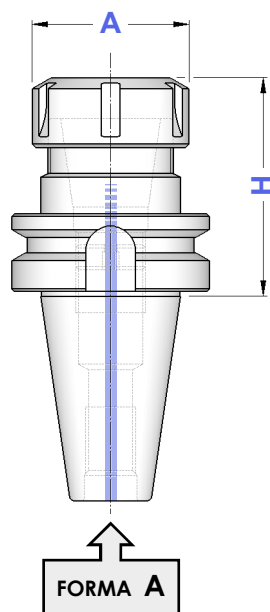
Ghiere ER - pag. 20
ER Nuts - page 20

Chiavi ER - pag. 25
ER Wrenches - page 25

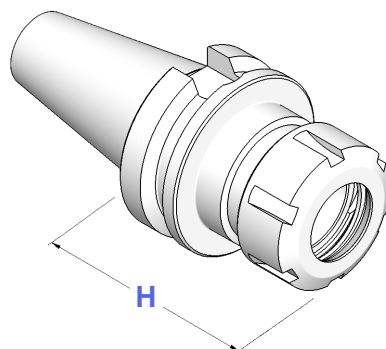
Grani di presettaggio da pag. 197
Presetting screws from page 197

BT
PORTAPINZE ER - GHIERA STANDARD
 ER - DIN 6499 COLLET CHUCKS WITH STANDARD NUT
FORMA A (AD)**FORMA B (AD+B)**

Balanced	G 6,3
≤ H100	12.000 rpm
> H100	8.000 rpm

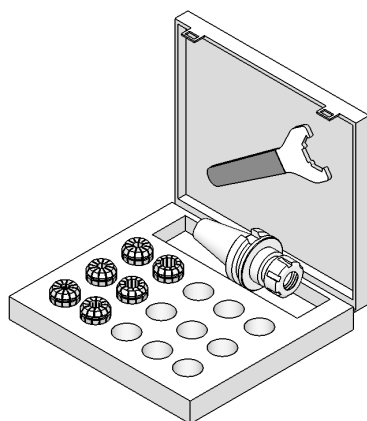


TIPO	FORMA A	FORMA B	A	CAPACITA'				
	Art.	Art.						
BT 30 - ER16/H 55	3465	—	32	1 ÷ 10	0183	4993	3698	0364
BT 30 - ER16/H 100	3438	—						
BT 30 - ER20/H 55	3274	—	35	1 ÷ 13	0183	4994	3699	0787
BT 30 - ER20/H 100	3439	—						
BT 30 - ER25/H 55	3250	—	42	1 ÷ 16	0190	4995	3669	0996
BT 30 - ER25/H 100	3267	—						
BT 30 - ER32/H 60	3251	—	50	2 ÷ 20	0190	4996	3670	0988
BT 30 - ER32/H 100	3252	—						
BT 40 - ER16/H 70	3468	4872	32	1 ÷ 10	0186	4993	3698	0364
BT 40 - ER16/H 100	3469	4873						
BT 40 - ER16/H 130	3497	4847						
BT 40 - ER16/H 160	3470	4874						
BT 40 - ER16/H 200	3498	4852						
BT 40 - ER20/H 70	3257	4875	35	1 ÷ 13	0188	4994	3699	0787
BT 40 - ER20/H 100	3580	4876						
BT 40 - ER20/H 130	3113	4853						
BT 40 - ER20/H 160	3114	4877						
BT 40 - ER20/H 200	3499	4854						
BT 40 - ER25/H 70	3258	4878	42	1 ÷ 16	0190	4995	3669	0996
BT 40 - ER25/H 100	0336	4879						
BT 40 - ER25/H 130	0337	4880						
BT 40 - ER25/H 160	3115	4881						
BT 40 - ER25/H 200	3183	4811						
BT 40 - ER32/H 70	3184	4882	50	2 ÷ 20	0191	4996	3670	0988
BT 40 - ER32/H 100	3259	4883						
BT 40 - ER32/H 130	3116	4884						
BT 40 - ER32/H 160	3260	4885						
BT 40 - ER32/H 200	3117	4886						
BT 40 - ER40/H 70	3261	4887	63	3 ÷ 30	0195	4997	3671	0821
BT 40 - ER40/H 100	3262	4888						
BT 40 - ER40/H 130	3263	4889						
BT 40 - ER40/H 160	3264	4890						
BT 40 - ER40/H 200	3118	4891						
BT 40 - ER50/H 85	3265	4931	78	6 ÷ 34	0191	4998	3668	4055
BT 50 - ER16/H 100	3474	4892	32	1 ÷ 10	0186	4993	3698	0364
BT 50 - ER16/H 160	3475	4893						
BT 50 - ER16/H 200	3488	4957						
BT 50 - ER20/H 100	3119	4894	35	1 ÷ 13	0188	4994	3699	0787
BT 50 - ER20/H 160	3120	4895						
BT 50 - ER20/H 200	3581	4958						
BT 50 - ER25/H 80	3582	4896	42	1 ÷ 16	0190	4995	3669	0996
BT 50 - ER25/H 100	3583	4897						
BT 50 - ER25/H 160	3584	4898						
BT 50 - ER25/H 200	3585	4959						
BT 50 - ER32/H 80	3275	4899	50	2 ÷ 20	0191	4996	3670	0988
BT 50 - ER32/H 100	3273	4900						
BT 50 - ER32/H 130	3276	4901						
BT 50 - ER32/H 160	3277	4902						
BT 50 - ER32/H 200	3278	4903						
BT 50 - ER32/H 250	3400	4961						
BT 50 - ER40/H 80	3279	4904	63	3 ÷ 30	0195	4997	3671	0821
BT 50 - ER40/H 100	3472	4905						
BT 50 - ER40/H 130	3280	4906						
BT 50 - ER40/H 160	3281	4907						
BT 50 - ER40/H 200	3282	4908						
BT 50 - ER50/H 100	3473	4999	78	6 ÷ 34	0195	4998	3668	4055
BT 50 - ER50/H 160	8046	8047						

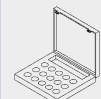


CASSETTE CON SERIE RIDOTTA DI PINZE ER, MANDRINO FORMA A E CHIAVE

EQUIPMENT BOXES WITH REDUCED SET OF ER COLLETS



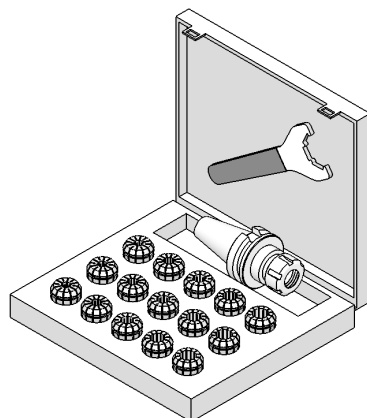
FORMA A



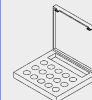
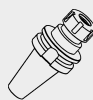
TIPO	Art.				
KIT Rid BT 30/H 55 - ER 25	7784	3250	3695	3669	0996: $\emptyset 4-6-8-10-12-16$
KIT Rid BT 30/H 60 - ER 32	7785	3251	3695	3670	0988: $\emptyset 4-6-8-10-12-16-20$
KIT Rid BT 40/H 70 - ER 25	7786	3258	3695	3669	0996: $\emptyset 4-6-8-10-12-16$
KIT Rid BT 40/H 70 - ER 32	7787	3184	3695	3670	0988: $\emptyset 4-6-8-10-12-16-20$
KIT Rid BT 40/H 70 - ER 40	7788	3261	3695	3671	0821: $\emptyset 4-6-8-10-12-16-20-25$
KIT Rid BT 50/H 80 - ER 32	7789	3275	3695	3670	0988: $\emptyset 4-6-8-10-12-16-20$
KIT Rid BT 50/H 80 - ER 40	7790	3279	3695	3671	0821: $\emptyset 4-6-8-10-12-16-20-25$

CASSETTE CON SERIE COMPLETA DI PINZE ER, MANDRINO FORMA A E CHIAVE

EQUIPMENT BOXES WITH COMPLETE SET OF ER COLLETS



FORMA A



TIPO	Art.				
KIT BT 30/H 55 - ER 25	7791	3250	3695	3669	0996: $\emptyset 2 \div 16$ (15 Pinze)
KIT BT 30/H 60 - ER 32	7792	3251	3695	3670	0988: $\emptyset 3 \div 20$ (18 Pinze)
KIT BT 40/H 70 - ER 25	7793	3258	3695	3669	0996: $\emptyset 2 \div 16$ (15 Pinze)
KIT BT 40/H 70 - ER 32	7794	3184	3695	3670	0988: $\emptyset 3 \div 20$ (18 Pinze)
KIT BT 40/H 70 - ER 40	7795	3261	3695	3671	0821: $\emptyset 4 \div 26$ (23 Pinze)
KIT BT 50/H 80 - ER 32	7796	3275	3695	3670	0988: $\emptyset 3 \div 20$ (18 Pinze)
KIT BT 50/H 80 - ER 40	7797	3279	3695	3671	0821: $\emptyset 4 \div 26$ (23 Pinze)

BT**PORTAPINZE ER - GHIERA RALLA GIREVOLE**

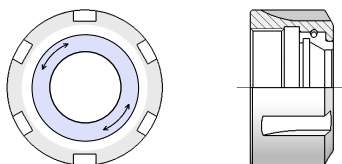
ER - DIN 6499 COLLET CHUCKS WITH ROTARY RING NUT

FORMA A (AD)**FORMA B (AD+B)**

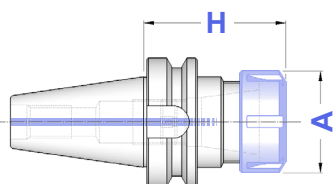
Balanced	G 6,3
≤ H100	12.000 rpm
> H100	8.000 rpm

**GHIERA con
RALLA GIREVOLE****CARATTERISTICHE E VANTAGGI**

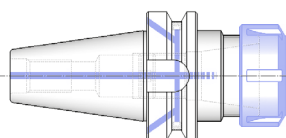
- Aumenta sensibilmente la forza di serraggio della pinza.
- Evita la torsione della pinza riducendone l'attrito con la sua sede e conseguentemente ne preserva la precisione.
- E' intercambiabile con le normali ghiera standard ed esagonali.

**ROTARY RING NUT****CHARACTERISTICS AND ADVANTAGES**

- Collet clamping force is sensitively increased.
- Avoids collet torsion reducing friction with its seat and consequently preserves its accuracy.
- Is interchangeable with standard and hexagonal nuts.

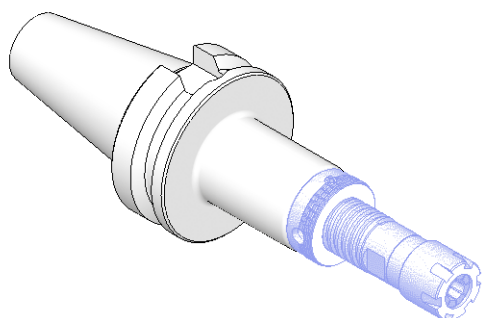
**FORMA A**

CON GHIERA GC

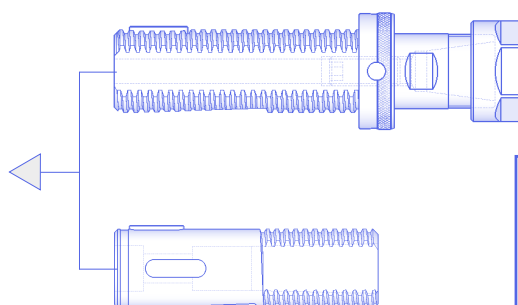
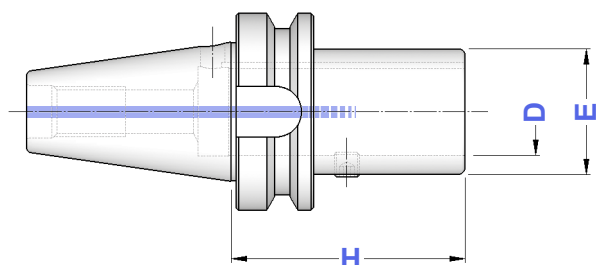
**FORMA B**

CON GHIERA GC

TIPO	FORMA A	FORMA B	A	CAPACITA'				
	Art.	Art.						
BT 30 - ER 16 GC / H 55	8226	—	32	1 ÷ 10	0183	4954	3698	0364
BT 30 - ER 16 GC / H 100	8227	—						
BT 30 - ER 20 GC / H 55	8228	—	35	1 ÷ 13	0183	4955	3699	0787
BT 30 - ER 20 GC / H 100	8229	—						
BT 30 - ER 25 GC / H 55	8230	—	42	1 ÷ 16	0190	3697	3669	0996
BT 30 - ER 25 GC / H 100	8231	—						
BT 30 - ER 32 GC / H 60	8232	—	50	2 ÷ 20	0190	2911	3670	0988
BT 30 - ER 32 GC / H 100	8233	—						
BT 40 - ER 16 GC / H 70	8234	8283	32	1 ÷ 10	0186	4954	3698	0364
BT 40 - ER 16 GC / H 100	8235	8284						
BT 40 - ER 16 GC / H 130	8236	8285						
BT 40 - ER 16 GC / H 160	8237	8286						
BT 40 - ER 16 GC / H 200	8238	8287						
BT 40 - ER 20 GC / H 70	8239	8288	35	1 ÷ 13	0188	4955	3699	0787
BT 40 - ER 20 GC / H 100	8240	8289						
BT 40 - ER 20 GC / H 130	8241	8290						
BT 40 - ER 20 GC / H 160	8242	8291						
BT 40 - ER 20 GC / H 200	8243	8292						
BT 40 - ER 25 GC / H 70	8244	8293	42	1 ÷ 16	0190	3697	3669	0996
BT 40 - ER 25 GC / H 100	8245	8294						
BT 40 - ER 25 GC / H 130	8246	8295						
BT 40 - ER 25 GC / H 160	8247	8296						
BT 40 - ER 25 GC / H 200	8248	8297						
BT 40 - ER 32 GC / H 70	8249	8298	50	2 ÷ 20	0191	2911	3670	0988
BT 40 - ER 32 GC / H 100	8250	8299						
BT 40 - ER 32 GC / H 130	8251	8300						
BT 40 - ER 32 GC / H 160	8252	8301						
BT 40 - ER 32 GC / H 200	8253	8302						
BT 40 - ER 40 GC / H 70	8254	8303	63	3 ÷ 30	0195	2912	3671	0821
BT 40 - ER 40 GC / H 100	8255	8304						
BT 40 - ER 40 GC / H 130	8256	8305						
BT 40 - ER 40 GC / H 160	8257	8306						
BT 40 - ER 40 GC / H 200	8258	8307						
BT 50 - ER 16 GC / H 100	8260	8309	32	1 ÷ 10	0186	4954	3698	0364
BT 50 - ER 16 GC / H 160	8261	8310						
BT 50 - ER 16 GC / H 200	8262	8311						
BT 50 - ER 20 GC / H 100	8263	8312	35	1 ÷ 13	0188	4955	3699	0787
BT 50 - ER 20 GC / H 160	8264	8313						
BT 50 - ER 20 GC / H 200	8265	8314						
BT 50 - ER 25 GC / H 80	8266	8315	42	1 ÷ 16	0190	3697	3669	0996
BT 50 - ER 25 GC / H 100	8267	8316						
BT 50 - ER 25 GC / H 160	8268	8317						
BT 50 - ER 25 GC / H 200	8269	8318						
BT 50 - ER 32 GC / H 80	8270	8319	50	2 ÷ 20	0191	2911	3670	0988
BT 50 - ER 32 GC / H 100	8271	8320						
BT 50 - ER 32 GC / H 130	8272	8321						
BT 50 - ER 32 GC / H 160	8273	8322						
BT 50 - ER 32 GC / H 200	8274	8323						
BT 50 - ER 32 GC / H 250	8275	8324						
BT 50 - ER 40 GC / H 80	8276	8325	63	3 ÷ 30	0195	2912	3671	0821
BT 50 - ER 40 GC / H 100	8277	8326						
BT 50 - ER 40 GC / H 130	8278	8327						
BT 50 - ER 40 GC / H 160	8279	8328						
BT 50 - ER 40 GC / H 200	8280	8329						

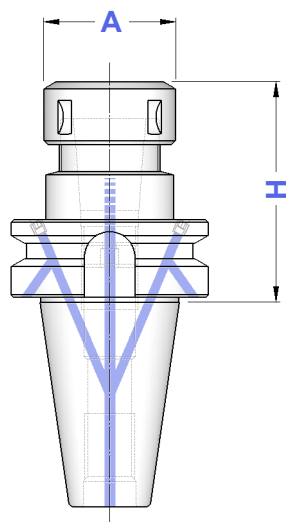
BT
PORTA MANDRINI CON ATTACCO TRAPEZIO DIN 6327
 AUTOMOTIVES SHANK HOLDERS ACCORDING TO DIN 6327
FORMA A (AD)
 Balanced G 6,3
 8.000 rpm


FORMA A					
TIPO	Art.	D	H	E	
BT 40 - TR 28	3955	28	70	40	0021
BT 40 - TR 36	3956	36	120	50	0021
BT 50 - TR 28	3960	28	100	40	0021
BT 50 - TR 36	3961	36	100	50	0021
BT 50 - TR 48	3962	48	105	67	0060

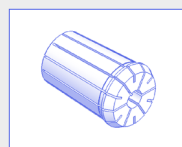

 Trovate il programma
 DIN 6327 da pag. 46
 del Catalogo Generale

 You will find DIN 6327
 program on General
 Catalogue from page 46
BT
MANDRINI PER PINZE EOC DIN 6388
 DIN 6388 COLLET CHUCKS
FORMA B (AD+B)

Balanced	G 6,3
≤ H100	12.000 rpm
> H100	8.000 rpm



FORMA B						
TIPO	Art.	A	CAPACITA'			
BT 40 - EOC 16/H 70	8726	43	2 ÷ 16	4067	2883	0768
BT 40 - EOC 16/H 100	8727					
BT 40 - EOC 16/H 130	8728					
BT 40 - EOC 25/H 70	8729	60	2 ÷ 25	4068	2909	0769
BT 40 - EOC 25/H 100	8730					
BT 40 - EOC 25/H 130	8731					
BT 40 - EOC 32/H 80	8732	72	3 ÷ 32	4069	2910	0770
BT 50 - EOC 16/H 70	8733	43	2 ÷ 16	4067	2883	0768
BT 50 - EOC 16/H 100	8734					
BT 50 - EOC 25/H 85	8735	60	2 ÷ 25	4068	2909	0769
BT 50 - EOC 25/H 100	8736					
BT 50 - EOC 25/H 130	8737					
BT 50 - EOC 32/H 90	8738	72	3 ÷ 32	4069	2910	0770
BT 50 - EOC 32/H 130	8739					


 Pinze, ghiera e chiavi
 EOC - DIN 6388 si trovano
 da pagina 28 del Catalogo Generale.

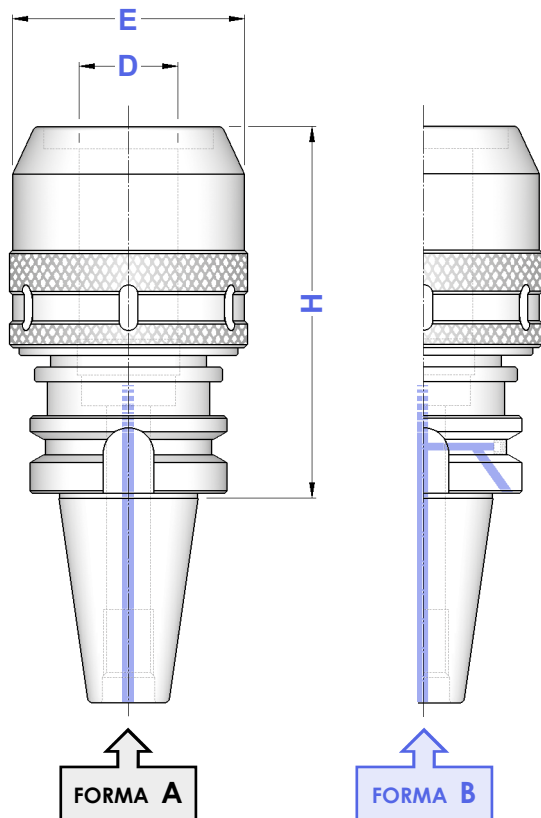
 Collets, nuts and wrenches
 EOC - DIN 6388 type you can find
 on General Catalogue from page 28

BT
MANDRINI A FORTE SERRAGGIO
 HIGH GRIP CHUCKS
FORMA A (AD)**FORMA B (AD+B)**

Balanced G 6,3

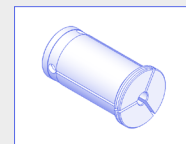
12.000 rpm

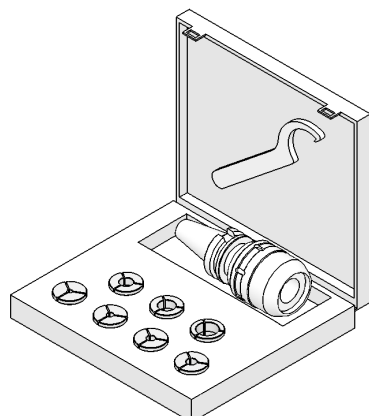
TIPO	FORMA A	FORMA B	D	E		
	Art.	Art.				
BT 40 - PC 20 / H 80	5114	5228	20	54	2900	0809
BT 40 - PC 20 / H 105	3504	—				
BT 40 - PC 32 / H 90	5115	5229	32	74	2910	0810
BT 40 - PC 32 / H 105	3505	—				
BT 40 - PC 32 / H 135	5133	—				
BT 50 - PC 20 / H 105	3506	—	20	54	2900	0809
BT 50 - PC 32 / H 105	3507	5234	32	74	2910	0810
BT 50 - PC 32 / H 135	5136	—				



**Pinze cilindriche di riduzione
per Mandrini a Forte Serraggio**
 Pag. 31 del Catalogo Generale

*Reduction cylindrical collets
for High Grip Chucks on
General Catalogue page 31*


**CASSETTE CON MANDRINO
CHIAVE E PINZE**

 EQUIPMENT BOXES WITH COLLET CHUCK
 WRENCH AND COLLETS
**FORMA
A**

TIPO	Art.				
KIT BT 40 - PC 20 / H 80	7547	5114	3695	2900	0809 ø 6 - 8 - 10 - 12 - 16
KIT BT 40 - PC 20 / H 105	7713	3504			
KIT BT 40 - PC 32 / H 90	7548	5115	3695	2910	0810 ø 6 - 8 - 10 - 12 - 16 - 20 - 25
KIT BT 40 - PC 32 / H 105	7716	3505			
KIT BT 50 - PC 20 / H 105	7717	3506	3695	2900	0809 ø 6 - 8 - 10 - 12 - 16
KIT BT 50 - PC 32 / H 105	7720	3507	3695	2910	0810 ø 6 - 8 - 10 - 12 - 16 - 20 - 25

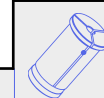
BT
**MANDRINI A SERRAGGIO IDRAULICO
TIPO CORTO**

SHORT TYPE HYDRAULIC CHUCKS

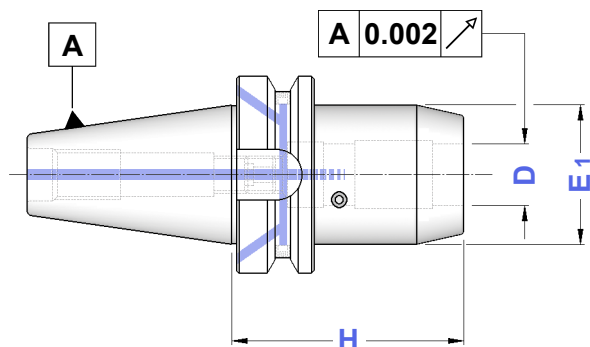
FORMA B (AD+B)

Balanced G 2,5

20.000 rpm

**FORMA
B**

TIPO	Art.	D	H	E1	
BT 40 - HYDRO 20	5170	20	72	49,5	0521
BT 50 - HYDRO 32	5180	32	90	72,0	0522

**BT**
**MANDRINI A SERRAGGIO IDRAULICO
TIPO ALLEGGERITO**

RELIEVED TYPE HYDRAULIC CHUCKS

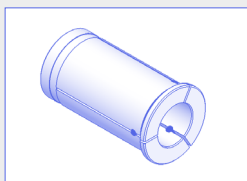
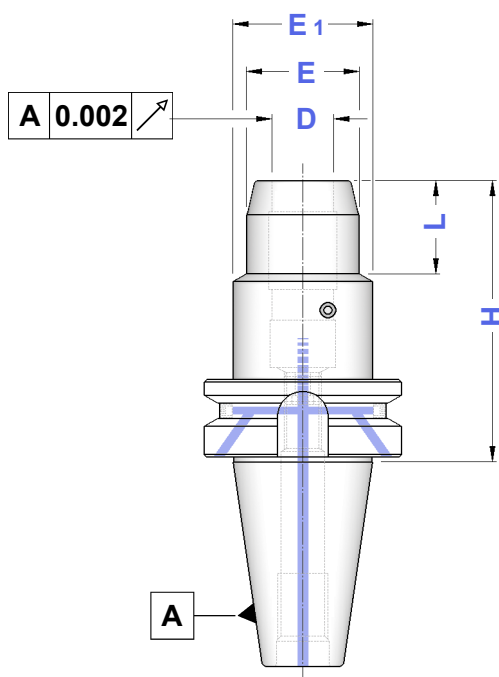
FORMA B (AD+B)

Balanced G 2,5

20.000 rpm

**FORMA
B**

TIPO	Art.	D	H	E	E1	L
BT 40 - HYDRO 6/H 90	5171	6	90	26	49,5	29
BT 40 - HYDRO 8/H 90	5172	8	90	28	49,5	30
BT 40 - HYDRO 10/H 90	5173	10	90	30	49,5	35
BT 40 - HYDRO 12/H 90	5174	12	90	32	49,5	40
BT 40 - HYDRO 16/H 90	5175	16	90	38	49,5	45
BT 40 - HYDRO 20/H 90	5176	20	90	42	49,5	47
BT 40 - HYDRO 25/H 90	5177	25	90	55	52,0	50
BT 40 - HYDRO 32/H 90	5178	32	90	63	62,0	48
BT 50 - HYDRO 6/H 90	8508	6	90	26	49,5	29
BT 50 - HYDRO 8/H 90	8509	8	90	28	49,5	30
BT 50 - HYDRO 10/H 90	8510	10	90	30	49,5	34
BT 50 - HYDRO 12/H 90	8511	12	90	32	49,5	34
BT 50 - HYDRO 16/H 90	8512	16	90	38	49,5	35
BT 50 - HYDRO 20/H 90	5181	20	90	42	49,5	35
BT 50 - HYDRO 25/H 110	8513	25	110	55	63,0	48
BT 50 - HYDRO 32/H 110	8514	32	110	63	70,0	50



**Pinze cilindriche a tenuta stagna
per Mandrini Idraulici a pag. 31
del Catalogo Generale**

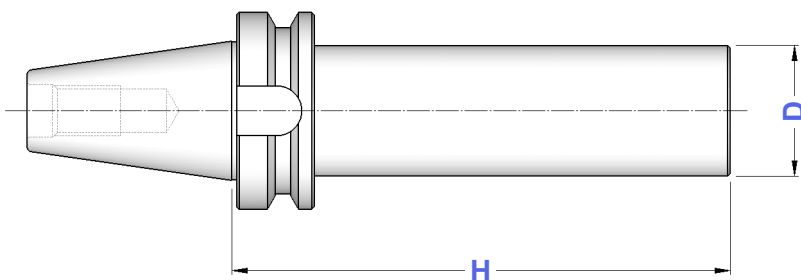
Watertight cylindrical collets
for Hydraulic Chucks on
General Catalogue page 31

Applicazioni: consente il bloccaggio ad alta precisione di utensili a gambo cilindrico DIN 1835 Forma A e B, con tolleranza di gambo h 6 e rugosità Ra < 0,3 micron

Attenzione : non azionare il sistema idraulico se l'utensile non è inserito nel mandrino

Applications : allows high precision locking of DIN 1835 shank tools Form A and B, with shank tolerance h 6 and surface roughness Ra < 0,3 micron.

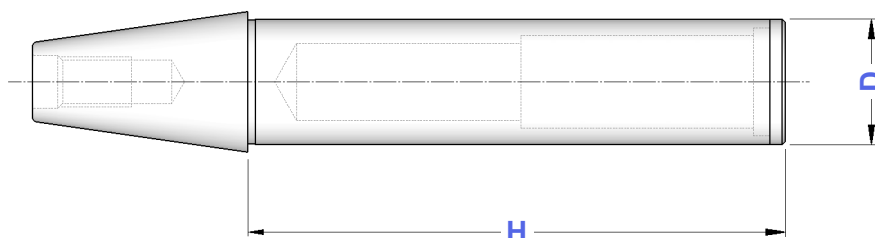
Warning : do not start Hydraulic System without any tool fit inside

BT**BARRE A STELO TENERO**
BLANK BARS**FORMA A****FORMA A**

TIPO	Art.	H	D
BT 40 - D. 40	4367	160	40
BT 40 - D. 50	4368	200	50
BT 40 - D. 63	4369	250	63
BT 50 - D. 63	4372	250	63
BT 50 - D. 80	4373	300	80

BARRE DI CONTROLLO
TEST ARBORS

TIPO	Art.	H	D
CONO 40 - D. 40 SC	2225	300	40
CONO 50 - D. 50 SC	2229	350	50

**Tolleranze della barra**

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

Bars tolerance

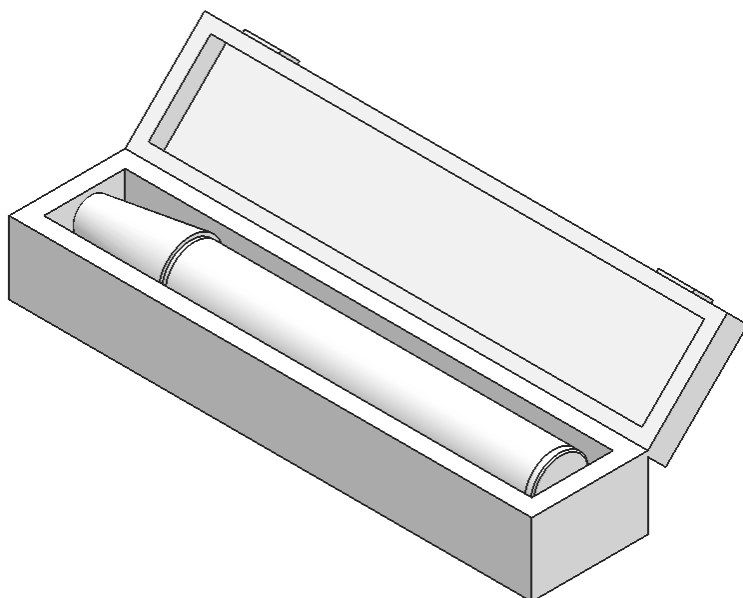
- Straightnes = 0,003
- Runout accuracy = 0,003
- Cylindricity = 0,003

Dati costruttivi

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

Constructive Features

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



BT

PORTAFRESE WELDON TIPO EXTRACORTO

SHORT TYPE END MILL HOLDERS FOR DIN 1835-B SHANKS

FORMA A (AD)

FORMA B (AD+B)

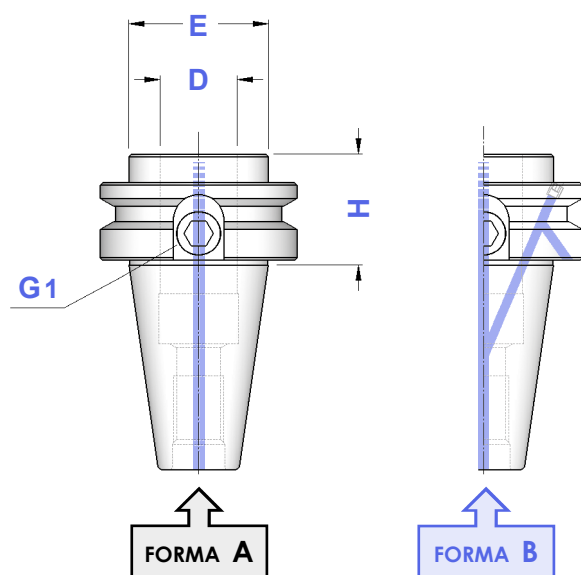
Balanced G 6,3
12.000 rpm

	FORMA A	FORMA B						
TIPO	Art.	Art.	D	H	E	Fig.	G1	G2
BT 40 - WE 12/H 35	3053	8469	12	35	44	1	4973	——
BT 40 - WE 14/H 35	8465	8470	14	35	44	1	0390	——
BT 40 - WE 16/H 35	3054	5122	16	35	44	1	0068	——
BT 40 - WE 18/H 35	8466	8471	18	35	44	1	0261	——
BT 40 - WE 20/H 35	3055	5123	20	35	44	1	0261	——
BT 40 - WE 25/H 35	3056	5124	25	35	44	1	0082	——
BT 40 - WE 25/H 60	4629	4554		60	49	2	0082	0076
BT 40 - WE 32/H 40	3069	4555	32	40	44	1	0074	——
BT 40 - WE 32/H 70	4630	4556		70	72	2	0082	4977
BT 50 - WE 16/H 44	3057	5125	16	44	70	1	4974	——
BT 50 - WE 18/H 44	8467	8472	18	44	70	1	4974	——
BT 50 - WE 20/H 44	3058	5126	20	44	70	1	4975	——
BT 50 - WE 25/H 44	3059	5127	25	44	70	1	4976	——
BT 50 - WE 32/H 44	3060	5128	32	44	70	1	4977	——
BT 50 - WE 40/H 44	8468	8473	40	44	70	1	0259	——

WELDON EXTRACORTO

SHORT TYPE END MILL

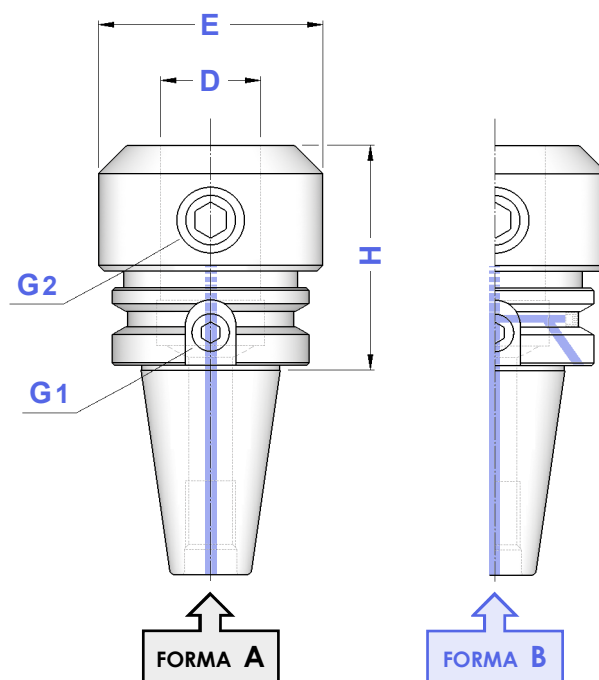
Figura 1



WELDON EXTRACORTO

SHORT TYPE END MILL

Figura 2



BT

PORTAFRESE WELDON

END MILL HOLDERS FOR DIN 1835-B SHANKS

FORMA A (AD)

FORMA B (AD+B)

Balanced	G 6,3
≤ H100	12.000 rpm
> H100	8.000 rpm

Figura 1

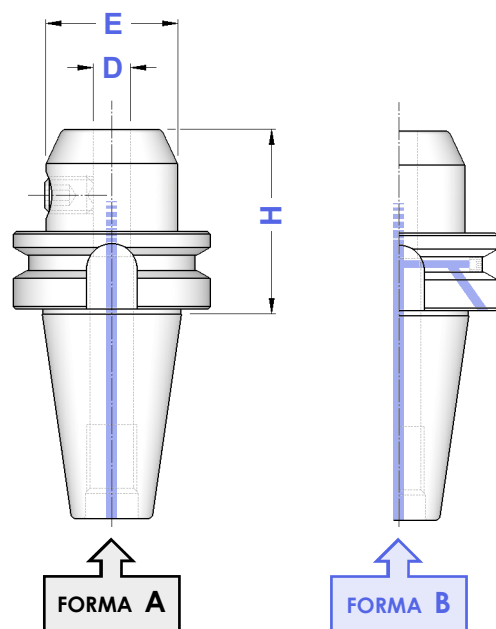
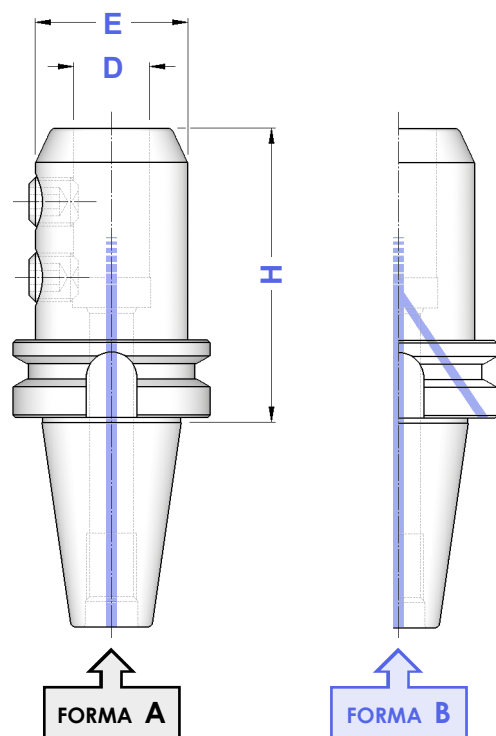
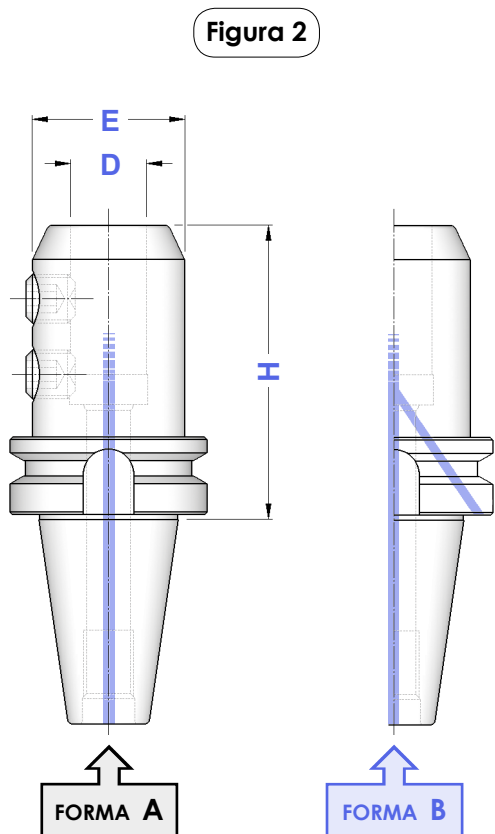
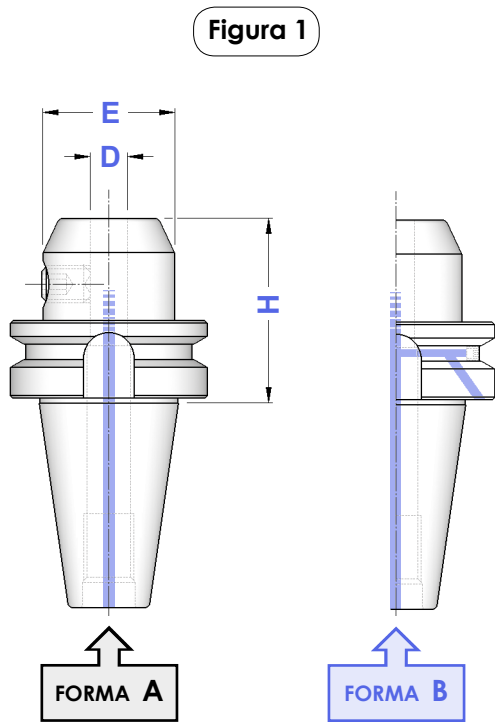


Figura 2



TIPO	FORMA A	FORMA B	D	H	E	Fig.	
	Art.	Art.					
BT 30 - WE 6/H 50	3740	—	6	50	25	1	4970
BT 30 - WE 8/H 50	3741	—	8	50	28	1	4971
BT 30 - WE 10/H 50	3742	—	10	50	35	1	4972
BT 30 - WE 12/H 55	3743	—	12	55	42	1	4973
BT 30 - WE 16/H 63	3744	—	16	63	48	1	4974
BT 30 - WE 20/H 70	3299	—	20	70	52	1	4975
BT 40 - WE 6/H 50	3752	4909	6	50	25	1	4970
BT 40 - WE 6/H 100	5057	5863		100			
BT 40 - WE 6/H 130	8004	8021		130			
BT 40 - WE 6/H 160	5564	5864		160			
BT 40 - WE 6/H 200	4253	4391		200			
BT 40 - WE 8/H 50	3753	4910	8	50	28	1	4971
BT 40 - WE 8/H 100	5058	5865		100			
BT 40 - WE 8/H 130	8005	8022		130			
BT 40 - WE 8/H 160	5565	5866		160			
BT 40 - WE 8/H 200	4254	4396		200			
BT 40 - WE 10/H 63	3754	4911	10	63	35	1	4972
BT 40 - WE 10/H 100	5059	5867		100			
BT 40 - WE 10/H 130	8006	8023		130			
BT 40 - WE 10/H 160	5566	5868		160			
BT 40 - WE 10/H 200	4255	4397		200			
BT 40 - WE 12/H 63	3755	4912	12	63	42	1	4973
BT 40 - WE 12/H 100	5060	5869		100			
BT 40 - WE 12/H 130	8007	8024		130			
BT 40 - WE 12/H 160	5567	5870		160			
BT 40 - WE 12/H 200	4262	4401		200			
BT 40 - WE 14/H 63	4557	4913	14	63	44	1	4973
BT 40 - WE 14/H 100	5061	5871		100			
BT 40 - WE 14/H 130	8008	8025		130			
BT 40 - WE 14/H 160	4268	4432		160			
BT 40 - WE 14/H 200	4269	4433		200			
BT 40 - WE 16/H 63	3756	4914	16	63	48	1	4974
BT 40 - WE 16/H 100	5062	5872		100			
BT 40 - WE 16/H 130	8009	8026		130			
BT 40 - WE 16/H 160	5063	5873		160			
BT 40 - WE 16/H 200	4270	4434		200			
BT 40 - WE 18/H 63	4558	4915	18	63	50	1	4974
BT 40 - WE 18/H 100	5064	5874		100			
BT 40 - WE 18/H 130	8010	8027		130			
BT 40 - WE 18/H 160	4271	4435		160			
BT 40 - WE 18/H 200	4272	4436		200			
BT 40 - WE 20/H 63	3757	4916	20	63	52	1	4975
BT 40 - WE 20/H 100	5066	5875		100			
BT 40 - WE 20/H 130	5067	4437		130			
BT 40 - WE 20/H 160	5068	5876		160			
BT 40 - WE 20/H 200	4274	4446		200			
BT 40 - WE 25/H 90	3758	4917	25	90	65	2	4976
BT 40 - WE 25/H 130	5069	4939		130			
BT 40 - WE 25/H 160	5070	4448		160			
BT 40 - WE 25/H 200	4358	4479		200			
BT 40 - WE 32/H 100	3759	4918	32	100	72	2	4977
BT 40 - WE 32/H 130	5071	4480		130			
BT 40 - WE 32/H 160	5072	4481		160			
BT 40 - WE 32/H 200	4359	4482		200			
BT 40 - WE 40/H 105	4559	4919	40	105	80	2	4977

segue ➡



TIPO	FORMA A	FORMA B	D	H	E	Fig.	
	Art.	Art.					
BT 50 - WE 6/H 63	3295	4920	6	63	25	1	4970
BT 50 - WE 6/H 100	5073	5877		100			
BT 50 - WE 6/H 130	8011	8028		130			
BT 50 - WE 6/H 160	5568	5878		160			
BT 50 - WE 6/H 200	4360	4485	8	200	28	1	4971
BT 50 - WE 8/H 63	3769	4921		63			
BT 50 - WE 8/H 100	5074	5879		100			
BT 50 - WE 8/H 130	8012	8029		130			
BT 50 - WE 8/H 160	5569	5880	10	160	35	1	4972
BT 50 - WE 8/H 200	4361	4497		200			
BT 50 - WE 10/H 70	3770	4922		70			
BT 50 - WE 10/H 100	5075	5907		100			
BT 50 - WE 10/H 130	8013	8030	12	130	42	1	4973
BT 50 - WE 10/H 160	5572	5908		160			
BT 50 - WE 10/H 200	4366	4498		200			
BT 50 - WE 12/H 80	3771	4923		80			
BT 50 - WE 12/H 100	5574	5912	14	100	44	1	4973
BT 50 - WE 12/H 130	8014	8031		130			
BT 50 - WE 12/H 160	5076	5909		160			
BT 50 - WE 12/H 200	4370	4499		200			
BT 50 - WE 14/H 80	4560	4924	16	80	48	1	4974
BT 50 - WE 14/H 100	4371	4500		100			
BT 50 - WE 14/H 130	8015	8032		130			
BT 50 - WE 14/H 160	4375	4502		160			
BT 50 - WE 14/H 200	4376	4503	18	200	50	1	4974
BT 50 - WE 16/H 80	3772	4925		80			
BT 50 - WE 16/H 100	5575	5913		100			
BT 50 - WE 16/H 130	8016	8033		130			
BT 50 - WE 16/H 160	5078	5910	20	160	52	1	4975
BT 50 - WE 16/H 200	4380	4523		200			
BT 50 - WE 18/H 80	4561	4926		80			
BT 50 - WE 18/H 100	4381	4524		100			
BT 50 - WE 18/H 130	8017	8034	25	130	65	2	4976
BT 50 - WE 18/H 160	4382	4525		160			
BT 50 - WE 18/H 200	4384	4526		200			
BT 50 - WE 20/H 80	3773	4927		80			
BT 50 - WE 20/H 100	5576	5914	32	100	72	2	4977
BT 50 - WE 20/H 130	8018	8035		130			
BT 50 - WE 20/H 160	5080	5911		160			
BT 50 - WE 20/H 200	4386	4527		200			
BT 50 - WE 25/H 100	3774	4928	40	100	80	2	4977
BT 50 - WE 25/H 130	8019	8036		130			
BT 50 - WE 25/H 160	5082	5915		160			
BT 50 - WE 25/H 200	4388	4528		200			
BT 50 - WE 32/H 105	3775	4929	50	105	100	2	4978
BT 50 - WE 32/H 130	8020	8037		130			
BT 50 - WE 32/H 160	5083	5916		160			
BT 50 - WE 32/H 200	4389	4529		200			
BT 50 - WE 40/H 120	3776	4930	50	120	100	2	4978
BT 50 - WE 40/H 160	5085	5917		160			
BT 50 - WE 40/H 200	4390	4530		200			
BT 50 - WE 50/H 125	3777	4552		125			

**Dove trovare questi Articoli
nel Catalogo Generale**

*Where to find those Items
on General Catalogue*

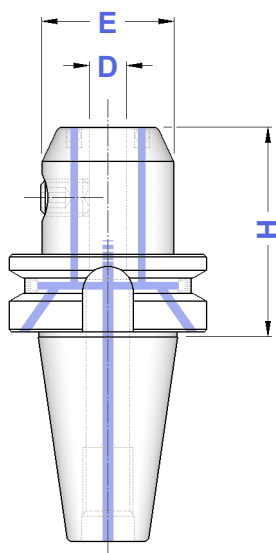


Grani di bloccaggio - pag. 197
Locking screws - page 197

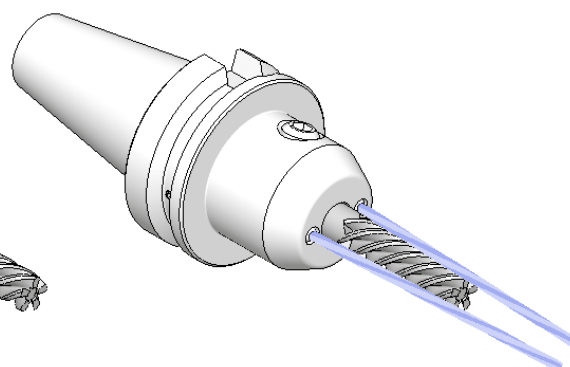
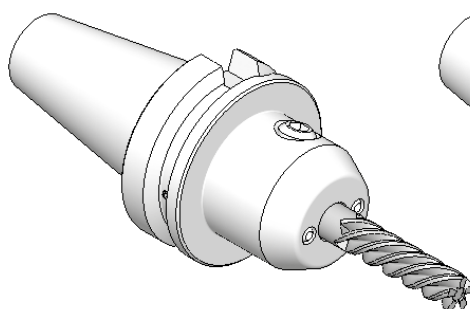
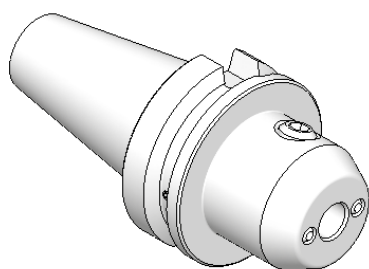
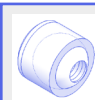
BT
PORTAFRESE WELDON CON SFERE DI LUBRIFICAZIONE
 TOOLHOLDERS FOR DIN 1835-B SHANKS WITH FRONT COOLANT
FORMA B (AD+B)

Balanced G 6,3

12.000 rpm

**FORMA
B**

TIPO	Art.	D	H	E	
BT 40 - WEC 6/H 50	7872	6	50	25	4970
BT 40 - WEC 8/H 50	7873	8	50	28	4971
BT 40 - WEC 10/H 63	7874	10	63	35	4972
BT 40 - WEC 12/H 63	7875	12	63	42	4973
BT 40 - WEC 14/H 63	7876	14	63	44	4973
BT 40 - WEC 16/H 63	7877	16	63	48	4974
BT 40 - WEC 18/H 63	7878	18	63	50	4974
BT 40 - WEC 20/H 63	7879	20	63	52	4975
BT 40 - WEC 25/H 90	7880	25	90	65	4976
BT 40 - WEC 32/H 100	7881	32	100	72	4977
BT 40 - WEC 40/H 105	7882	40	105	80	4977
BT 50 - WEC 6/H 63	7883	6	63	25	4970
BT 50 - WEC 8/H 63	7884	8	63	28	4971
BT 50 - WEC 10/H 70	7885	10	70	35	4972
BT 50 - WEC 12/H 80	7886	12	80	42	4973
BT 50 - WEC 14/H 80	7887	14	80	44	4973
BT 50 - WEC 16/H 80	7888	16	80	48	4974
BT 50 - WEC 18/H 80	7889	18	80	50	4974
BT 50 - WEC 20/H 80	7890	20	80	52	4975
BT 50 - WEC 25/H 100	7891	25	100	65	4976
BT 50 - WEC 32/H 105	7892	32	105	72	4977
BT 50 - WEC 40/H 120	7893	40	120	80	4977


**Dove trovare questi Articoli
nel Catalogo Generale**
*Where to find those Items
on General Catalogue*
**Ugelli a sfera - pag. 263**

Sphere coolant nozzles - page 263

**Prolunghe per ugelli - pag. 263**

Extensions for coolant nozzles - page 263

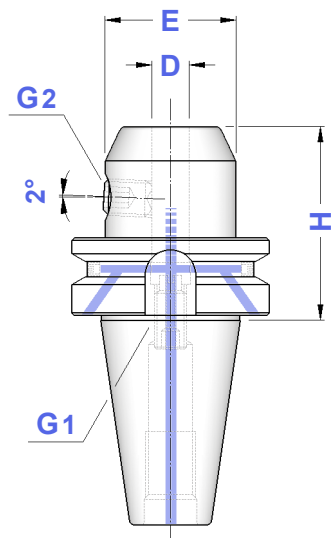
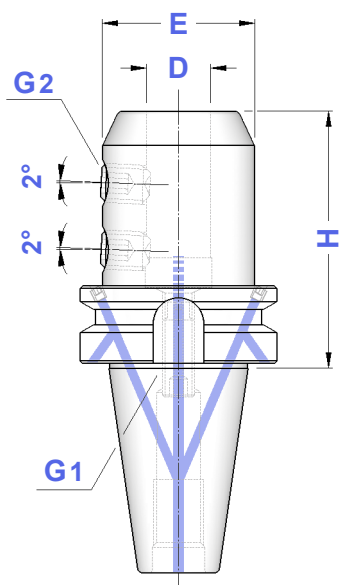
BT**MANDRINI PER UTENSILI ATTACCO WHISTLE NOTCH**

END MILL HOLDERS FOR DIN 1835-E SHANKS

FORMA B (AD+B)

Balanced G 6,3

12.000 rpm

Figura 1**Figura 2****FORMA B**

TIPO	Art.	D	H	E	Fig.	G1	G2
BT 40 - WN 6 / H 50	4666	6	50	25	1	0233	4970
BT 40 - WN 8 / H 50	4667	8	50	28	1	0235	4971
BT 40 - WN 10 / H 63	4668	10	63	35	1	0238	4972
BT 40 - WN 12 / H 63	4669	12	63	42	1	0240	4973
BT 40 - WN 14 / H 63	4670	14	63	44	1	0240	4973
BT 40 - WN 16 / H 63	4671	16	63	48	1	0245	4974
BT 40 - WN 18 / H 63	4672	18	63	50	1	0245	4974
BT 40 - WN 20 / H 63	4673	20	63	52	1	0245	4975
BT 40 - WN 25 / H 90	4674	25	90	65	2	0212	4976
BT 40 - WN 32 / H 100	4675	32	100	72	2	0212	4977
BT 40 - WN 40 / H 105	4692	40	105	80	2	0212	4977
BT 50 - WN 6 / H 63	4676	6	63	25	1	0233	4970
BT 50 - WN 8 / H 63	4677	8	63	28	1	0235	4971
BT 50 - WN 10 / H 70	4678	10	70	35	1	0238	4972
BT 50 - WN 12 / H 80	4679	12	80	42	1	0240	4973
BT 50 - WN 14 / H 80	4680	14	80	44	1	0240	4973
BT 50 - WN 16 / H 80	4681	16	80	48	1	0245	4974
BT 50 - WN 18 / H 80	4682	18	80	50	1	0245	4974
BT 50 - WN 20 / H 80	4683	20	80	52	1	0245	4975
BT 50 - WN 25 / H 100	4684	25	100	65	2	0247	4976
BT 50 - WN 32 / H 105	4685	32	105	72	2	0247	4977
BT 50 - WN 40 / H 120	4686	40	120	80	2	0247	4977

**Dove trovare questi Articoli
nel Catalogo Generale***Where to find those Items
on General Catalogue***Grani di bloccaggio - pag. 197**
Locking screws - page 197**Grani di bloccaggio - pag. 199**
Locking screws - page 199

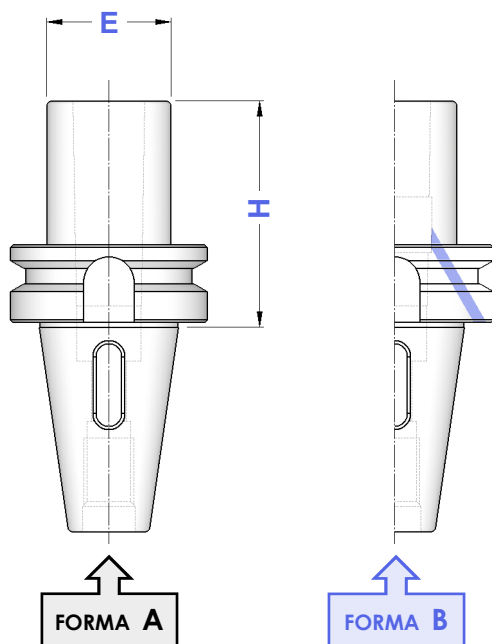
BT**RIDUZIONI A CONO MORSE PER PUNTE**

MORSE TAPER ADAPTERS FOR TWIST DRILLS DIN 228 FORM B SHANK

FORMA A**FORMA B**

Balanced G 6,3

8.000 rpm



	FORMA A	FORMA B			
TIPO	Art.	Art.	CM	H	E
BT 30 - CM 1 PUNTE	8346	—	1	50	25
BT 30 - CM 2 PUNTE	3796	—	2	60	32
BT 30 - CM 3 PUNTE	3883	—	3	90	40
BT 40 - CM 1 PUNTE	8347	4945	1	50	25
BT 40 - CM 2 PUNTE	8349	4962	2	60	32
BT 40 - CM 3 PUNTE	3783	4963	3	70	40
BT 40 - CM 4 PUNTE	3784	4964	4	95	48
BT 50 - CM 1 PUNTE	8352	—	1	45	25
BT 50 - CM 2 PUNTE	8354	4966	2	60	32
BT 50 - CM 3 PUNTE	8356	4967	3	65	40
BT 50 - CM 4 PUNTE	3793	4968	4	95	48
BT 50 - CM 5 PUNTE	3794	4969	5	120	63

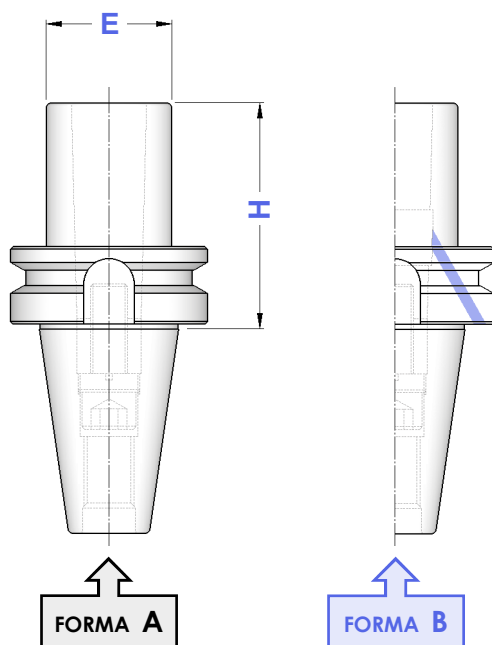
BT**RIDUZIONI A CONO MORSE PER FRESE**

MORSE TAPER ADAPTERS FOR MILLING CUTTERS DIN 228 FORM A SHANK

FORMA A**FORMA B**

Balanced G 6,3

8.000 rpm



	FORMA A	FORMA B						
TIPO	Art.	Art.	CM	H	E			
BT 30 - CM 2 FRESE	3882	—	2	60	32	7448	7422	4569
BT 30 - CM 3 FRESE	3884	—	3	80	40	7402	7423	4570
BT 40 - CM 2 FRESE	3886	4932	2	50	32	7448	7422	4569
BT 40 - CM 3 FRESE	3887	4933	3	70	40	7403	7423	4570
BT 40 - CM 4 FRESE	3888	4934	4	95	48	7404	7424	4571
BT 50 - CM 2 FRESE	3801	4935	2	60	32	7448	7422	4569
BT 50 - CM 3 FRESE	2933	4936	3	65	40	7403	7423	4570
BT 50 - CM 4 FRESE	3890	4937	4	90	48	7407	7424	4571
BT 50 - CM 5 FRESE	3891	4956	5	120	63	7408	7425	4572

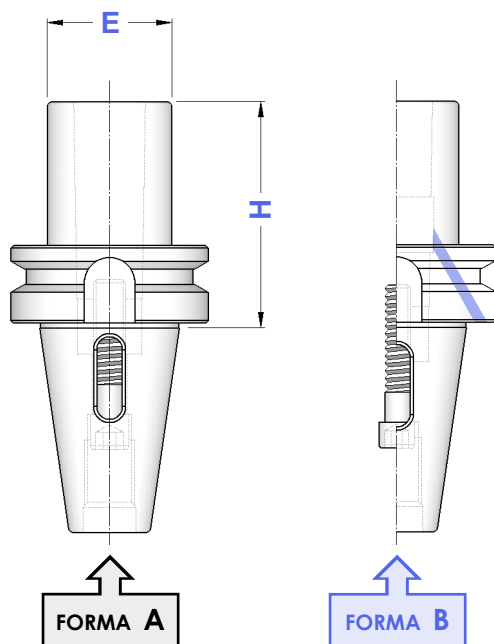
BT**RIDUZIONI A CONO MORSE PUNTE + FRESE
COMBinate**

COMBI MORSE TAPER ADAPTERS: TWIST DRILLS + MILLING CUTTERS

FORMA A**FORMA B**

Balanced G 6,3

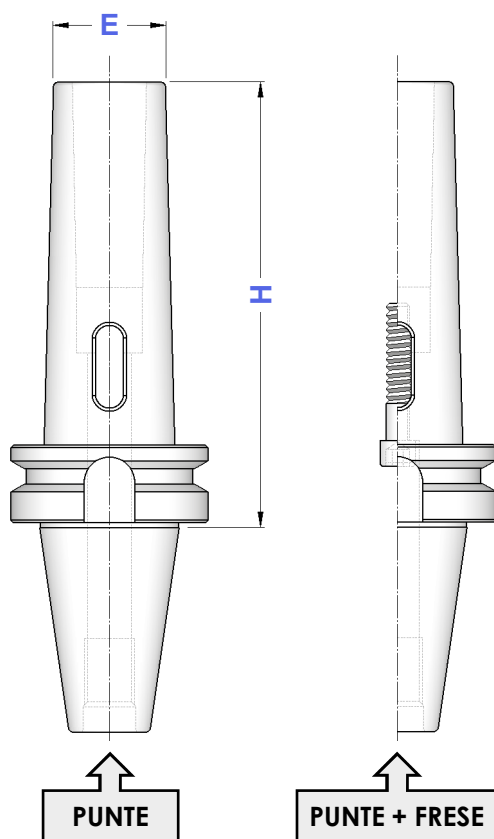
8.000 rpm



TIPO	FORMA A	FORMA B					
	Art.	Art.	CM	H	E		
BT 30 - CM 1 P+F	3795	—	1	50	25	7415	—
BT 30 - CM 2 P+F	3799	—	2	60	32	7400	0276
BT 30 - CM 3 P+F	3889	—	3	90	40	7418	0130
BT 40 - CM 1 P+F	3781	8747	1	50	25	7400	—
BT 40 - CM 2 P+F	3782	8748	2	60	32	7401	—
BT 40 - CM 3 P+F	8360	8749	3	70	40	7400	0130
BT 50 - CM 1 P+F	3790	—	1	45	25	7400	—
BT 50 - CM 2 P+F	3791	8750	2	60	32	7405	—
BT 50 - CM 3 P+F	3792	8751	3	65	40	7406	—
BT 50 - CM 4 P+F	8361	8752	4	95	48	7409	—
BT 50 - CM 5 P+F	8362	8753	5	120	63	7406	0131

BT**RIDUZIONI A CONO MORSE PER PUNTE E PUNTE + FRESE
TIPO PROLUNGATO**

EXTENDED MORSE TAPER ADAPTERS: TWIST DRILLS + MILLING CUTTERS

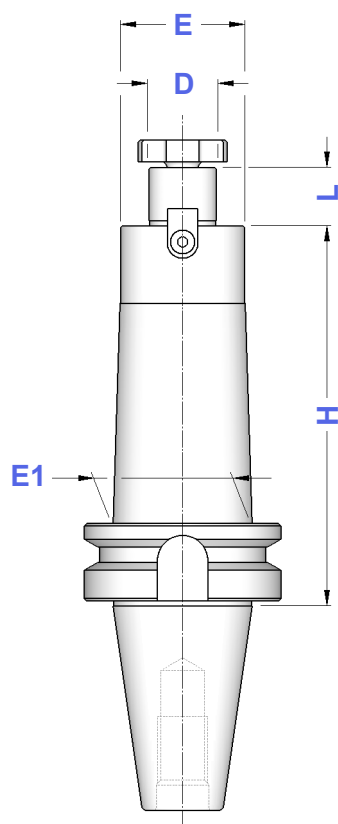
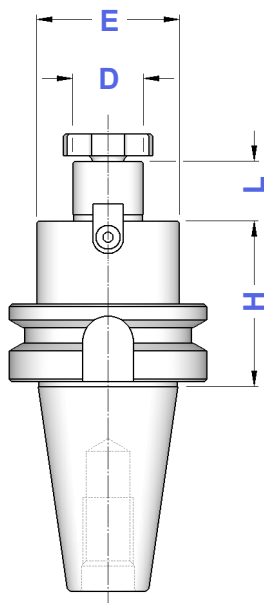
FORMA A

TIPO	PUNTE	PUNTE + FRESE					
	Art.	Art.	CM	H	E		
BT 40 - CM 1	8348	4258	1	115	18	7400	—
BT 40 - CM 2	8350	4259	2	125	25	7401	—
BT 40 - CM 3	8351	4260	3	140	33	7400	0130
BT 40 - CM 4	4261	—	4	165	40	—	—
BT 50 - CM 1	8353	4263	1	120	18	7400	—
BT 50 - CM 2	8355	4264	2	140	25	7405	—
BT 50 - CM 3	8357	4265	3	150	33	7406	—
BT 50 - CM 4	8358	4266	4	180	40	7409	—
BT 50 - CM 5	8359	4267	5	220	55	0055	0131

BT
PORTAFRESE FISSI
 DIN 6357 FACE MILL HOLDERS
FORMA A

Balanced G 6,3

8.000 rpm

**FORMA
A**

TIPO	Art.	D	L	E	E1		
BT 30 - D.13 FISSO / H 35	8412	13	12	28	28	0482	—
BT 30 - D.16 FISSO / H 35	4152	16	17	38	38	4985	4562
BT 30 - D.22 FISSO / H 40	4154	22	19	48	48	4986	4563
BT 30 - D.27 FISSO / H 40	4156	27	21	58	58	4987	4564
BT 30 - D.32 FISSO / H 45	8413	32	24	58	58	4988	4565
BT 40 - D.13 FISSO / H 45	8414	13	12	28	28	0482	—
BT 40 - D.16 FISSO / H 45	4161	16	17	38	38	4985	4562
BT 40 - D.16 FISSO / H 100	5578						
BT 40 - D.16 FISSO / H 130	9420						
BT 40 - D.16 FISSO / H 160	8415						
BT 40 - D.16 FISSO / H 200	8416						
BT 40 - D.22 FISSO / H 45	4644	22	19	48	48	4986	4563
BT 40 - D.22 FISSO / H 100	5588			46			
BT 40 - D.22 FISSO / H 130	9421						
BT 40 - D.22 FISSO / H 160	5589						
BT 40 - D.22 FISSO / H 200	8417						
BT 40 - D.27 FISSO / H 45	4645	27	21	58	58	4987	4564
BT 40 - D.27 FISSO / H 100	5590			48	48		
BT 40 - D.27 FISSO / H 130	9422						
BT 40 - D.27 FISSO / H 160	5591						
BT 40 - D.27 FISSO / H 200	8418						
BT 40 - D.32 FISSO / H 50	4646	32	24	78	78	4988	4565
BT 40 - D.32 FISSO / H 100	5592			58	58		
BT 40 - D.32 FISSO / H 160	8419						
BT 40 - D.40 FISSO / H 55	4647	40	27	88	88	4989	4566
BT 40 - D.40 FISSO / H 100	8420			70	70		
BT 40 - D.40 FISSO / H 160	8421						
BT 50 - D.16 FISSO / H 60	4648	16	17	38	38	4985	4562
BT 50 - D.16 FISSO / H 100	5593						
BT 50 - D.16 FISSO / H 130	9425						
BT 50 - D.16 FISSO / H 160	8422						
BT 50 - D.16 FISSO / H 200	8423						
BT 50 - D.22 FISSO / H 60	4172	22	19	48	48	4986	4563
BT 50 - D.22 FISSO / H 100	5659			46	49		
BT 50 - D.22 FISSO / H 130	9426						
BT 50 - D.22 FISSO / H 160	5660						
BT 50 - D.22 FISSO / H 200	8424						
BT 50 - D.22 FISSO / H 250	8425						
BT 50 - D.22 FISSO / H 300	8426						
BT 50 - D.27 FISSO / H 60	4649	27	21	58	58	4987	4564
BT 50 - D.27 FISSO / H 100	5666			55	78		
BT 50 - D.27 FISSO / H 130	9427						
BT 50 - D.27 FISSO / H 160	5667						
BT 50 - D.27 FISSO / H 200	8427						
BT 50 - D.27 FISSO / H 250	8428						
BT 50 - D.27 FISSO / H 300	8429						
BT 50 - D.32 FISSO / H 60	4650	32	24	78	78	4988	4565
BT 50 - D.32 FISSO / H 100	5669			66			
BT 50 - D.32 FISSO / H 130	9428						
BT 50 - D.32 FISSO / H 160	8430						
BT 50 - D.32 FISSO / H 200	8431						
BT 50 - D.32 FISSO / H 250	8432						
BT 50 - D.32 FISSO / H 300	8433						
BT 50 - D.40 FISSO / H 60	4651	40	27	88	88	4989	4566
BT 50 - D.40 FISSO / H 100	5676			70	70		
BT 50 - D.40 FISSO / H 160	8434						
BT 50 - D.40 FISSO / H 200	8435						

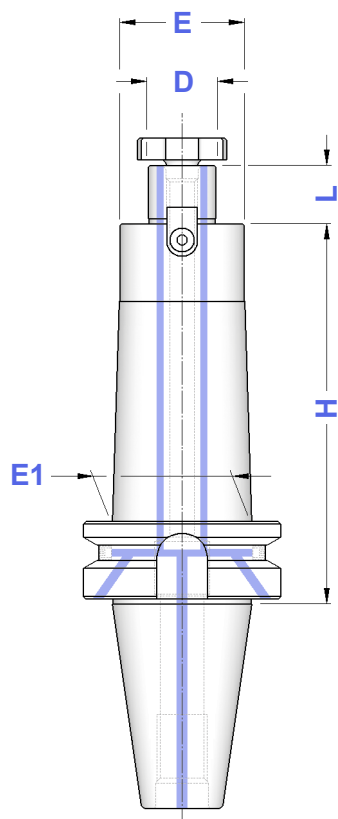
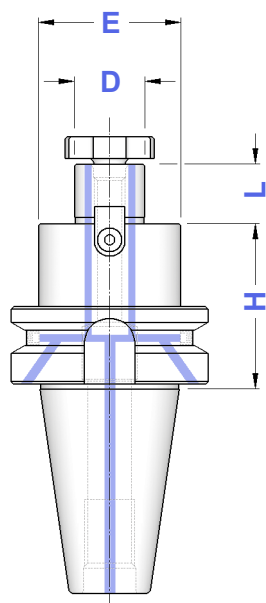
BT**PORTAFRESE FISSI CON PASSAGGIO REFRIGERANTE**

DIN 6357 FACE MILL HOLDERS WITH COOLANT THROUGH

FORMA B (AD+B)

Balanced G 6,3

8.000 rpm

**FORMA
B**

TIPO	Art.	D	L	E	E1		
BTB 40 - D. 16 FISSO/H 45	5881	16	17	38	38	4985	4562
BTB 40 - D. 16 FISSO/H 100	5882						
BTB 40 - D. 16 FISSO/H 130	9430						
BTB 40 - D. 16 FISSO/H 160	8438						
BTB 40 - D. 16 FISSO/H 200	8439						
BTB 40 - D. 22 FISSO/H 45	5883	22	19	48	48	4986	4563
BTB 40 - D. 22 FISSO/H 100	5884						
BTB 40 - D. 22 FISSO/H 130	9431			46			
BTB 40 - D. 22 FISSO/H 160	8440						
BTB 40 - D. 22 FISSO/H 200	8441						
BTB 40 - D. 27 FISSO/H 45	5885	27	21	58	58	4987	4564
BTB 40 - D. 27 FISSO/H 100	5886						
BTB 40 - D. 27 FISSO/H 130	9432			48	48		
BTB 40 - D. 27 FISSO/H 160	8442						
BTB 40 - D. 27 FISSO/H 200	8443						
BTB 40 - D. 32 FISSO/H 50	5887	32	24	78	78	4988	4565
BTB 40 - D. 32 FISSO/H 100	5888			58	58		
BTB 40 - D. 32 FISSO/H 160	8444						
BTB 40 - D. 40 FISSO/H 55	5889	40	27	88	88	4989	4566
BTB 40 - D. 40 FISSO/H 100	8445			70	70		
BTB 40 - D. 40 FISSO/H 160	8446						
BTB 50 - D. 16 FISSO/H 60	5890	16	17	38	38	4985	4562
BTB 50 - D. 16 FISSO/H 100	5891						
BTB 50 - D. 16 FISSO/H 130	9435						
BTB 50 - D. 16 FISSO/H 160	8447						
BTB 50 - D. 16 FISSO/H 200	8448						
BTB 50 - D. 22 FISSO/H 60	5892	22	19	48	48	4986	4563
BTB 50 - D. 22 FISSO/H 100	5893						
BTB 50 - D. 22 FISSO/H 130	9436						
BTB 50 - D. 22 FISSO/H 160	8449						
BTB 50 - D. 22 FISSO/H 200	8450						
BTB 50 - D. 22 FISSO/H 250	8451						
BTB 50 - D. 22 FISSO/H 300	8452						
BTB 50 - D. 27 FISSO/H 60	5894	27	21	58	58	4987	4564
BTB 50 - D. 27 FISSO/H 100	5895						
BTB 50 - D. 27 FISSO/H 130	9437						
BTB 50 - D. 27 FISSO/H 160	8453						
BTB 50 - D. 27 FISSO/H 200	8454						
BTB 50 - D. 27 FISSO/H 250	8455						
BTB 50 - D. 27 FISSO/H 300	8456						
BTB 50 - D. 32 FISSO/H 60	5896	32	24	78	78	4988	4565
BTB 50 - D. 32 FISSO/H 100	5897						
BTB 50 - D. 32 FISSO/H 130	9438						
BTB 50 - D. 32 FISSO/H 160	8457						
BTB 50 - D. 32 FISSO/H 200	8458						
BTB 50 - D. 32 FISSO/H 250	8459						
BTB 50 - D. 32 FISSO/H 300	8460						
BTB 50 - D. 40 FISSO/H 60	5898	40	27	88	88	4989	4566
BTB 50 - D. 40 FISSO/H 100	5899						
BTB 50 - D. 40 FISSO/H 160	8461						
BTB 50 - D. 40 FISSO/H 200	8462						

**Tasselli - pag. 195**
Dowels - page 195**Viti testa a croce - pag. 194**
Cross head screws - page 194**Viti per tassello - pag. 198**
Dowel screws - page 198**Chiavi testa a croce - pag. 194**
Wrenches cross head - page 194

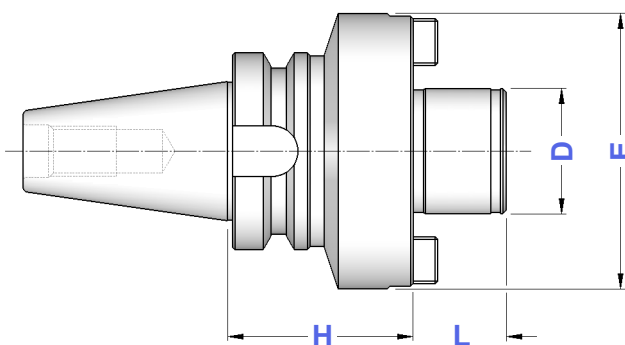
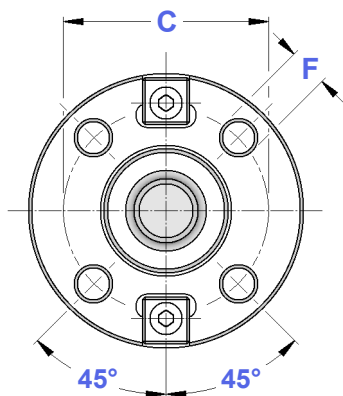
BT
ATTACCHI PER FRESE AD INSERTI
 FACE MILL HOLDERS FOR FACE MILLING CUTTERS
FORMA A

Balanced G 6,3

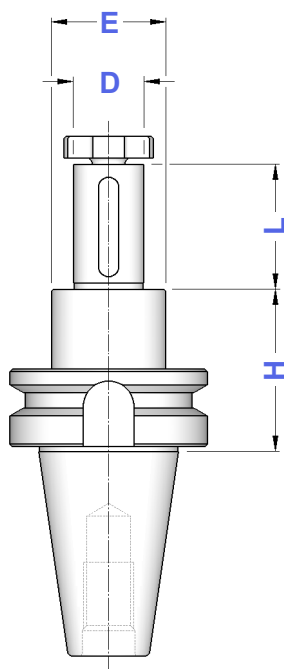
8.000 rpm

FORMA A

TIPO	Art.	D	H	L	E	C	F
BT 40 - D. 40 FM	4186	40	60	30	89	66,7	M12
BT 50 - D. 40 FM	4187	40	70	30	89	66,7	M12
BT 50 - D. 60 FM	4188	60	80	40	129	101,6	M16

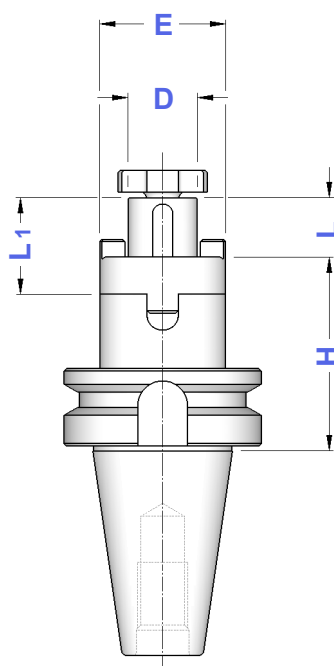
**BT**
PORTAFRESE CON CHIAVETTA DI TRASCINAMENTO
 MILL HOLDERS WITH FEATHER KEY
FORMA A**FORMA A**

TIPO	Art.	D	H	L	E			
BT 40 - D. 16 CHT	8503	16	52	30	28	0147	4985	4562
BT 40 - D. 22 CHT	8504	22	52	40	36	0148	4986	4563
BT 40 - D. 27 CHT	8505	27	52	60	43	0149	4987	4564
BT 40 - D. 32 CHT	8506	32	52	60	48	0150	4988	4565
BT 40 - D. 40 CHT	8507	40	52	60	56	0151	4989	4566



BT
PORTAFRESE COMBINATI
 DIN 6358 SHELL END MILL HOLDERS
FORMA A
 Balanced G 6,3
 8.000 rpm

TIPO	Art.	FORMA A							
		D	L1	L	E				
BT 30 - D. 16 C/H 50	3797	16	27	17	32	4090	0115	4985	4562
BT 30 - D. 22 C/H 50	3798	22	31	19	40	4091	0116	4986	4563
BT 30 - D. 27 C/H 55	3943	27	33	21	48	4092	0122	4987	4564
BT 40 - D. 16 C/H 55	3802	16	27	17	32	4090	0115	4985	4562
BT 40 - D. 16 C/H 100	4113								
BT 40 - D. 16 C/H 150	8483								
BT 40 - D. 22 C/H 55	3803	22	31	19	40	4091	0116	4986	4563
BT 40 - D. 22 C/H 100	4114								
BT 40 - D. 22 C/H 150	8484								
BT 40 - D. 27 C/H 55	3804	27	33	21	48	4092	0122	4987	4564
BT 40 - D. 27 C/H 100	4115								
BT 40 - D. 27 C/H 150	8485								
BT 40 - D. 32 C/H 60	3805	32	38	24	58	4093	0125	4988	4565
BT 40 - D. 32 C/H 100	4116								
BT 40 - D. 32 C/H 150	8486								
BT 40 - D. 40 C/H 60	3806	40	41	27	70	4094	0133	4989	4566
BT 40 - D. 40 C/H 100	3810								
BT 50 - D. 16 C/H 70	3812	16	27	17	32	4090	0115	4985	4562
BT 50 - D. 16 C/H 100	4117								
BT 50 - D. 22 C/H 70	3813	22	31	19	40	4091	0116	4986	4563
BT 50 - D. 22 C/H 100	4118								
BT 50 - D. 27 C/H 70	3814	27	33	21	48	4092	0122	4987	4564
BT 50 - D. 27 C/H 100	4119								
BT 50 - D. 32 C/H 70	3815	32	38	24	58	4093	0125	4988	4565
BT 50 - D. 32 C/H 100	4120								
BT 50 - D. 40 C/H 70	3816	40	41	27	70	4094	0133	4989	4566
BT 50 - D. 40 C/H 100	4121								


**Dove trovare questi Articoli
nel Catalogo Generale**
*Where to find those Items
on General Catalogue*

Giunti di trascinamento - pag. 194
Clutch drive rings - page 194

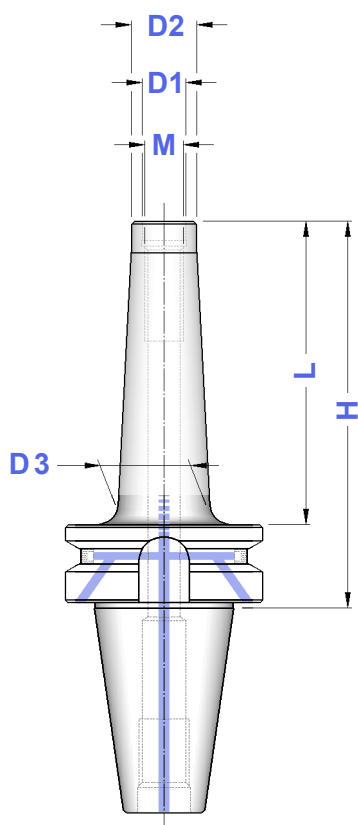
Viti testa a croce - pag. 194
Cross head screws - page 194

Chiavi per testa a croce - pag. 194
Wrenches for cross head - page 194

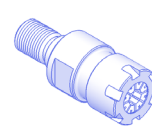
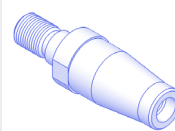
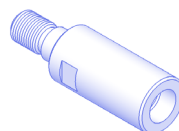
BT
MANDRINI PER FRESE CON ATTACCO FILETTATO
 CHUCKS FOR MILLING CUTTERS WITH THREADED SHANK
FORMA B (AD+B)

Balanced G 6,3

12.000 rpm

**FORMA
B**

TIPO	Art.	M	D1	D2	D3	H	L
BT 40 - M 6 / H 55	7687	M 6	6,5	10	13	55	28
BT 40 - M 6 / H 77	7688				20	77	50
BT 40 - M 6 / H 102	7689				23	102	75
BT 40 - M 8 / H 55	7827	M 8	8,5	13	15	55	28
BT 40 - M 8 / H 77	7828				23	77	50
BT 40 - M 8 / H 102	7829				23	102	75
BT 40 - M 8 / H 127	7830				25	127	100
BT 40 - M 10 / H 55	7831	M 10	10,5	18	20	55	28
BT 40 - M 10 / H 77	7832				23	77	50
BT 40 - M 10 / H 102	7833				28	102	75
BT 40 - M 10 / H 127	7834				32	127	100
BT 40 - M 12 / H 55	7835	M 12	12,5	21	24	55	28
BT 40 - M 12 / H 77	7836				24	77	50
BT 40 - M 12 / H 102	7837				31	102	75
BT 40 - M 12 / H 127	7838				33	127	100
BT 40 - M 16 / H 55	7839	M 16	17,0	29	32	55	28
BT 40 - M 16 / H 77	7840				34	77	50
BT 40 - M 16 / H 102	7841				34	102	75
BT 40 - M 16 / H 127	7842				36	127	100
BT 40 - M 16 / H 152	7843				40	152	125
BT 50 - M 12 / H 88	7844	M 12	12,5	21	24	88	50
BT 50 - M 12 / H 138	7845				33	138	100
BT 50 - M 12 / H 188	7846				40	188	150
BT 50 - M 12 / H 254	8719				42	254	216
BT 50 - M 16 / H 88	7847	M 16	17,0	29	34	88	50
BT 50 - M 16 / H 138	7848				36	138	100
BT 50 - M 16 / H 188	7849				42,5	188	150
BT 50 - M 16 / H 254	8720				44	254	216

**Prolunghe, Riduzioni, Portapinze ER con
attacco filettato a pag. 43 del Catalogo Generale**
*Extensions, Reductions, ER Collet Chucks with
threaded shank from page 43 on General Catalogue*


BT

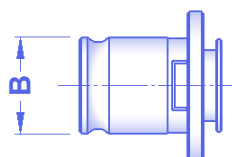
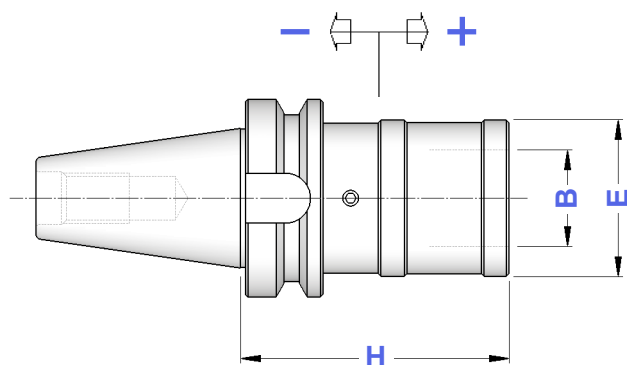
**MASCHIATORI A CAMBIO RAPIDO CON
DOPPIA COMPENSAZIONE**
DOUBLE COMPENSATION QUICK CHANGE TAP HOLDERS

FORMA A

		FORMA A				
TIPO	Art.	H	E	B	COMPENSAZIONE	
BT 30 - B.1	2863	63	38	19	- 7,5 + 7,5	M 3 ÷ M 12 (*M16)
BT 30 - B.2	2865	107	55	31	- 12,5 + 12,5	M 6 ÷ M 20 (*M30)
BT 40 - B.1	3524	67	38	19	- 7,5 + 7,5	M 3 ÷ M 12 (*M16)
BT 40 - B.2	3525	93	55	31	- 12,5 + 12,5	M 6 ÷ M 20 (*M30)
BT 40 - B.3	3526	164	79	48	- 20,0 + 20,0	M14 ÷ M 33 (*M48)
BT 50 - B.1	3028	80	38	19	- 7,5 + 7,5	M 3 ÷ M 12 (*M16)
BT 50 - B.2	3530	102	55	31	- 12,5 + 12,5	M 6 ÷ M 20 (*M30)
BT 50 - B.3	3531	133	79	48	- 20,0 + 20,0	M14 ÷ M 33 (*M48)



* Bussole con grani
Adapters with screws



**Bussole a Maschiare
da pag. 172 a pag. 175
del Catalogo Generale**

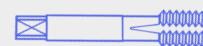
Tap Adapters
on General Catalogue
from page 172 to page 175

BT

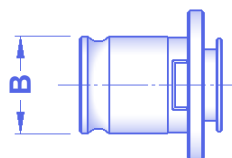
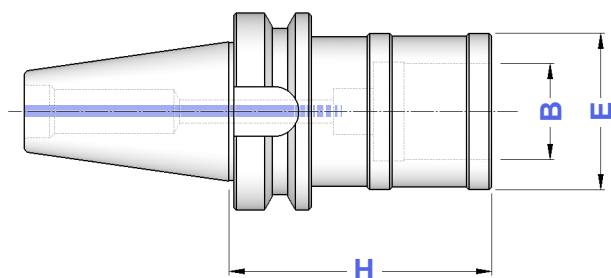
**MASCHIATORI A CAMBIO RAPIDO
SENZA COMPENSAZIONE**
QUICK CHANGE TAP HOLDERS WITHOUT COMPENSATION

FORMA A (AD)

		FORMA A				
TIPO	Art.	H	E	B		
BT 40 - B.1 FISSO	4951	67	33	19	M 3 ÷ M 12 (*M16)	
BT 40 - B.2 FISSO	4952	90	50	31	M 6 ÷ M 20 (*M30)	
BT 40 - B.3 FISSO	5711	117	72	48	M14 ÷ M 33 (*M48)	
BT 50 - B.1 FISSO	2999	78	33	19	M 3 ÷ M 12 (*M16)	
BT 50 - B.2 FISSO	4953	101	50	31	M 6 ÷ M 20 (*M30)	
BT 50 - B.3 FISSO	5712	125	72	48	M14 ÷ M 33 (*M48)	



* Bussole con grani
Adapters with screws



**Bussole a Maschiare
da pag. 172 a pag. 175
del Catalogo Generale**

Tap Adapters
on General Catalogue
from page 172 to page 175

I maschiatori sono fornibili anche con la sola compensazione a trazione (SFILAMENTO)
Tap holders are also available with traction compensation only (TENSION ONLY)