

Overview Pipe

Customer's OCTG product:

- Straight pipe
- Bent pipe

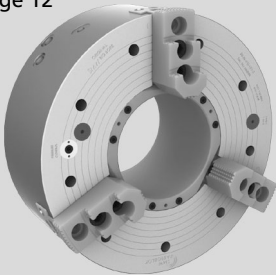
CHUCK

APPLICATION

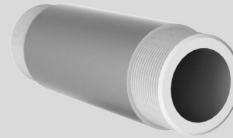
OCTG PRODUCT

CUSTOMER BENEFITS

BB-N
Page 12

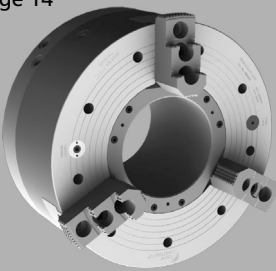


Threading of straight pipe with the original SMW Big Bore Type BB-N.

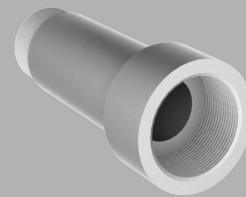


- **Quick jaw movement** more pipe per hour
- Can be used for other work pieces besides piping
- O.D. and I.D. clamping

BB-N-ES
Page 14

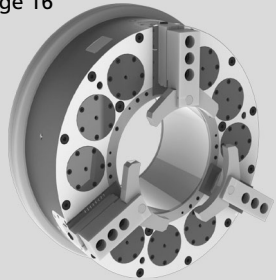


Threading of straight pipe with upset ends with the original SMW Big Bore Type BB-N-ES.

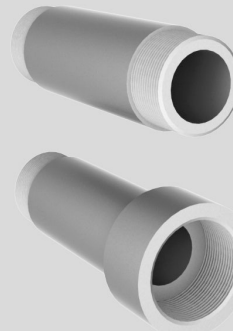


- **Quick jaw movement** more pipe per hour
- Large jaw stroke for easy loading of pipe and less danger of damaging threads when unloading

BB-SC
Page 16

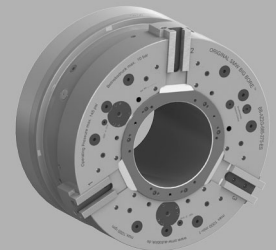


High production **spring clamp** chuck for threading of straight pipe with or without upset ends with the original SMW Big Bore Type BB-SC.



- **Full jaw stroke in 2 seconds** for highest productivity
- Fully sealed/low maintenance for highest availability of the machine
- Safe clamping of pipe even in longer machining processes with spring clamp technology

BB-AZ2G
Page 18

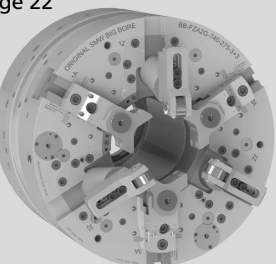


Threading of straight and bent pipe with the original SMW Big Bore Type BB-AZ2G.



- **Self centering or compensating clamping** for universal use
- Quick jaw movement
- External centering device needed when used in compensating mode
- O.D. clamping only

BB-FZA2G
Page 22



Threading of straight and bent pipe with integrated centering jaws with the original SMW Big Bore Type BB-FZA2G.



- **Integrated centering jaws for the pipe** = no external centering device needed
- Quick jaw movement
- Fully automatic programmable cycle

Pipe Clamping

Recommended Combinations

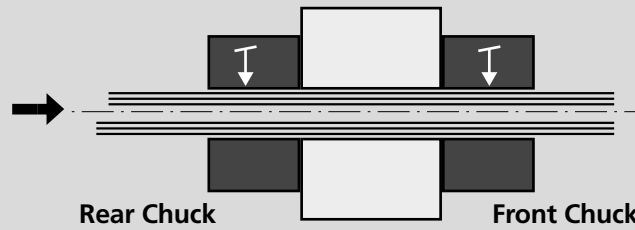
Self centering clamping

Self centering or compensating clamping

3+3-Combination

Combination A

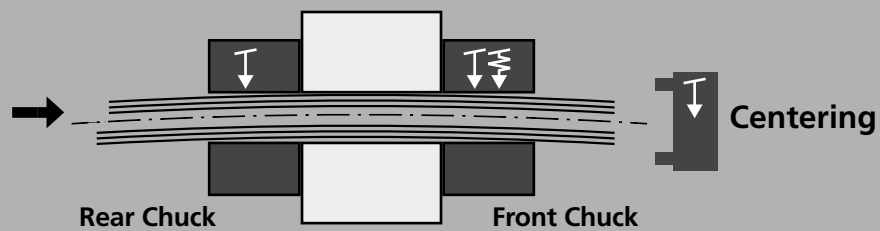
Pipe Loading



Note:
This combination can be only used for straight pipe!

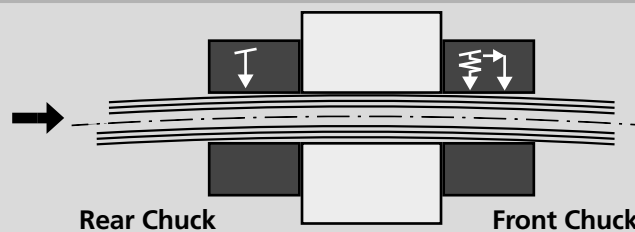
Combination B

Pipe Loading



Combination C

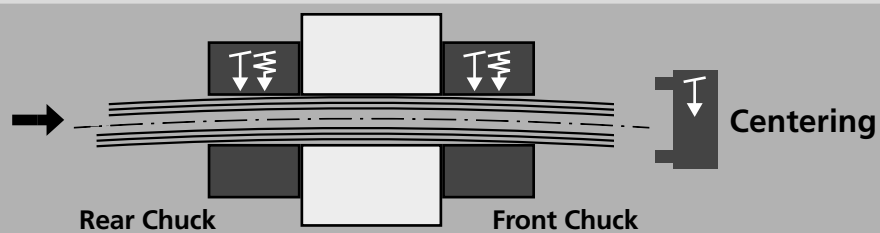
Pipe Loading



Note:
No centering necessary!

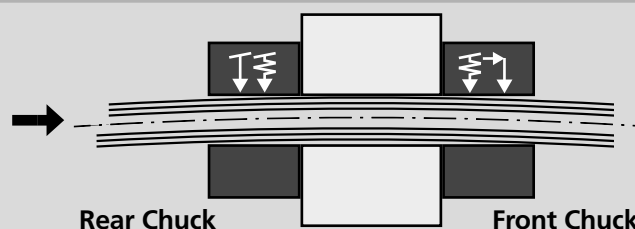
Combination D

Pipe Loading



Combination E

Pipe Loading



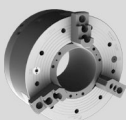
Note:
No centering necessary!

Respective chuck matrix:

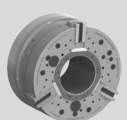
Self centering clamping

Self centering or compensating clamping

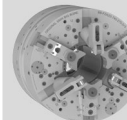
3 jaw + 3 jaw combination



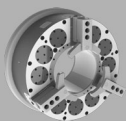
BB-N/ BB-N-ES
Page 12/14



BB-AZ2G
Page 18



BB-FZA2G
Page 22



BB-SC
Page 16

Centering options:



Chuck CC
Page 20

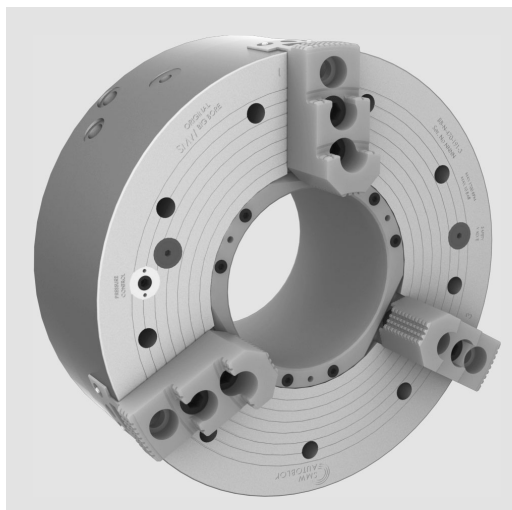
Turret
by customer

BIG BORE® BB-N

Dentatura in
POLLICI

Autocentranti con cilindro pneumatico incorporato PASSAGGIO BARRA EXTRA GRANDE Ø 140 - 410 mm

- Ø mandrini 400 - 800
- corsa normale
- 3 griffe



Applicazioni

- Lavorazione delle estremità di tubi lunghi
- È possibile utilizzare il passaggio barra completo della macchina

Caratteristiche tecniche

- Autocentranti automatici per chiusure esterne/interne con cilindro pneum. incorporato
- Alimentazione dell'aria effettuata tramite anello distributore e guarnizione a profilo tipo SMW con mandrino fermo
- Le valvole anti-ritorno mantengono la pressione durante la lavorazione
- La pressione di bloccaggio durante la lavorazione è costantemente controllata tramite sistema di sicurezza, detettori e unità di controllo
- Controllo corsa del morsetti per presa su diametro esterno ed interno (tranne per BB-N 400-140)

Dotazione standard

- Mandrino a 3 griffe
- 2 Raccordi G 1/2"
- 12 viti di fissaggio (9 per il BB-N 400)
- 1 golfare di sollevamento
- 1 serie di morsetti teneri + 1 tasselli a T con viti
- Senza supporto fisso del distributore

Esempio di ordine

BIG BORE BB-N 470-191/Z310

Accessori

Unità di controllo AC-BB/AC-XN
(vedi pagine del catalogo 310-313)

Principio inventato da SMW: alimentazione dell'aria con distributore e guarnizioni a profilo SMW

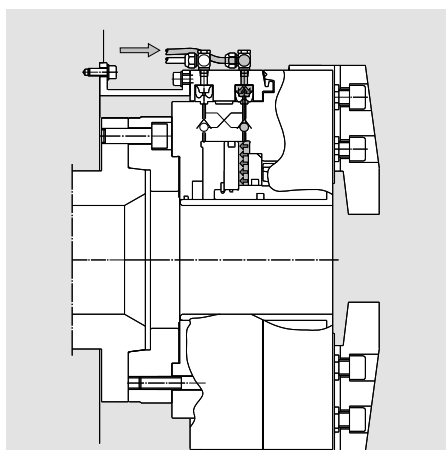


Fig. 1

Movimento di apertura/chiusura (possibile solo a mandrino fermo). Le guarnizioni a profilo si deformano radialmente per effetto della pressione pneumatica e aderiscono al corpo del mandrino, permettendo il riempimento del cilindro. Quando la pressione è raggiunta, l'alimentazione cessa e la doppia valvola anti-ritorno si blocca in posizione.

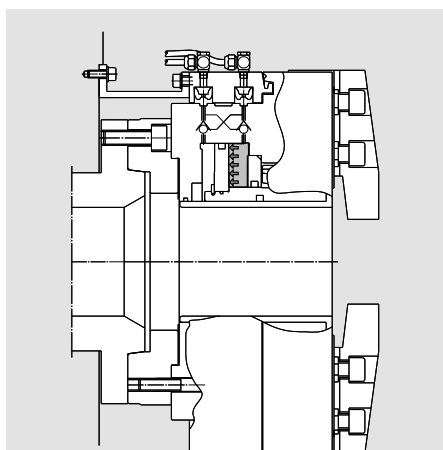


Fig. 2

Senza la pressione dell'aria le guarnizioni a profilo SMW tornano elasticamente in posizione espansa non toccando più il corpo del mandrino. La pressione di serraggio è mantenuta all'interno del cilindro e il mandrino può iniziare la rotazione.

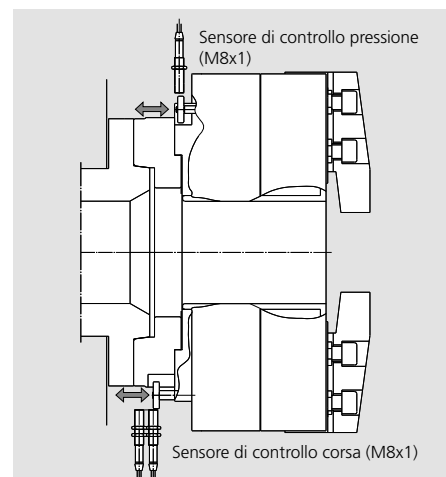


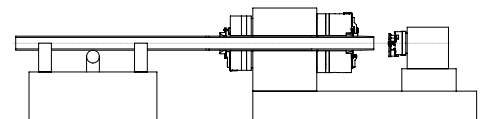
Fig. 3

Controllo di pressione: se la pressione scende al di sotto di un livello prefissato, un'asta di controllo attiva il sensore di prossimità che invia un segnale di allarme.
Controllo corsa: I detettori del controllo corsa monitorano le seguenti posizioni dei morsetti: presa morsetti aperto/ presa morsetti chiuso.*

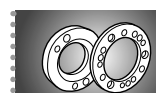
* BB-N-400-140 non ha il controllo corsa

Dati tecnici

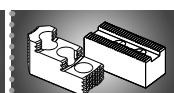
Modello SMW-AUTOBLOK BB-N		400-140	470-191	500-205	500-230	600-275	630-310	800-410
Cod.		052300	053535	053830	053832	053834	053836	053838
Passaggio barra	mm (poll.)	140 (5.51")	191 (7.52")	205 (8.07")	230 (9.06")	275 (10.83")	310 (12.20")	410 (16.14")
Corsa per griffa	mm (poll.)	7 (0.28")	7 (0.28")	8.5 (0.33")	8.5 (0.33")	8.5 (0.33")	10 (0.39")	12 (0.47")
Pressione di esercizio min./max.	bar (psi)	2/10 (29/145)	2/10 (29/145)	2/10 (29/145)	2/10 (29/145)	2/10 (29/145)	2/10 (29/145)	2/10 (29/145)
Superficie pistone	cm²	710	565	1024	940	990	1270	2064
Forza di serraggio a 6 bar	kN (lbf)	160 (35969)	115 (25853)	210 (47210)	190 (42714)	200 (44962)	220 (49458)	330 (74186)
Velocità massima	giri/min.	1700	1700	1300	1300	1300	1000	750
Consumo d'aria/corsa delle griffe a 6 bar	litri	21	16	36	32	34	52	108
Massa (senza morsetti)	kg (lbs)	150 (331)	150 (331)	230 (507)	200 (441)	270 (595)	420 (926)	650 (1433)
Momento d'inerzia	kg·m²	3.22	5.66	8.53	8	15	28	71.25



Lavorazione delle estremità di tubi con due mandrini per tornio



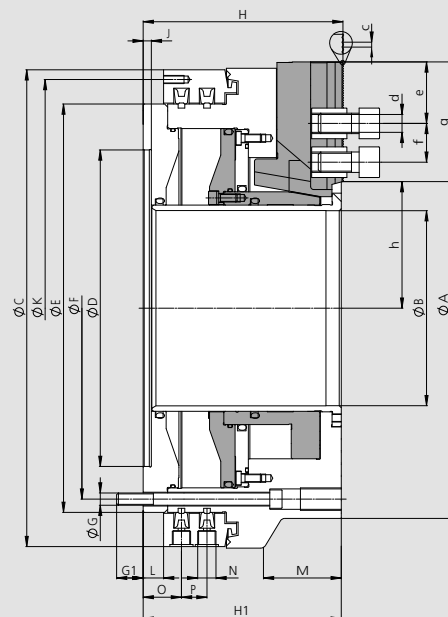
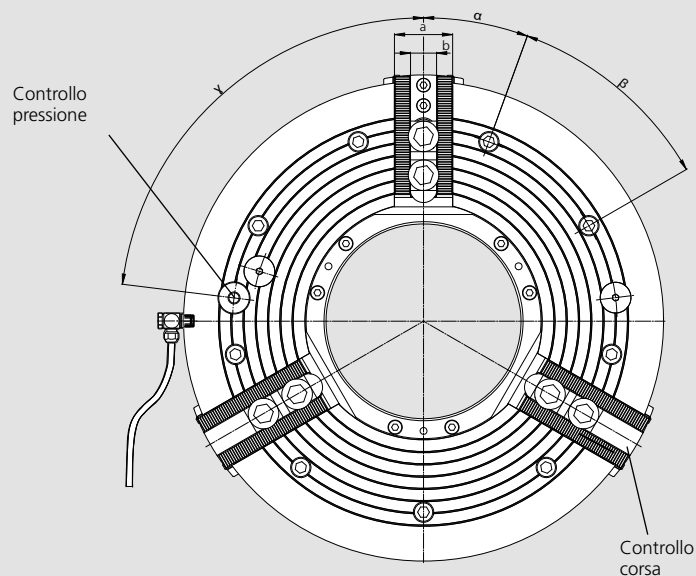
SMW-AUTOBLOK
289



SMW-AUTOBLOK
288

Dimensioni e caratteristiche tecniche

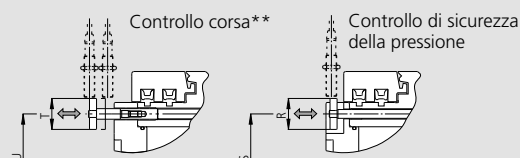
Autocentrante illustrato con griffe aperte



* Tutti i tubi di alimentazione devono avere almeno il Ø interno = 1/2",
e dalla taglia 630 in su, Ø interno min. 3/4"!

** BBN-400-140 non ha il controllo corsa

Per determinare l'esatta posizione del controllo della corsa delle griffe e del controllo
pressione, richiedere il disegno di caratteristiche



Rappresentazioni ingrandite

Con riserva di modifiche tecniche.

Per maggiori informazioni contattare l'ufficio tecnico SMW-AUTOBLOK.

Modello SMW-AUTOBLOK BB-N			400-140	470-191	500-205	500-230	600-275	630-310	800-410
Cod.			052300	053535	053830	053832	053834	053836	053838
Attacco			Z310	Z310	Z415	Z415	Z450	Z510	Z700
Interasse viti di fissaggio	A	mm	422	470	540	570	605	662	800
	B	mm	140	191	205	230	275	310	410
	C	mm	467	467	570	570	605	685	850
	D H6	mm	310	310	415	415	450	510	700
	E	mm	400	400	500	500	535	610	775
	F	mm	374	374	474	474	508	580	745
	G	mm	M12	M12	M12	M12	M12	M16	M16
	G1	mm	26	26	27	27	27	30	30
	H	mm	196	196	225	225	225	263	305
	H1	mm	194	194	223	223	223	261	303
Interasse viti 6x M8	J	mm	8	8	8	8	8	8	8
	K	mm	448	448	550	550	585	666	830
	L	mm	20	20	20	20	20	20	25
	M	mm	70	-	98	98	-	115	154
Raccordi pneumatici	N	pollici	G 1/2"	G 1/2"	G 1/2"	G 1/2"	G 1/2"	G 1/2"	G 1/2"
	O	mm	37	37	37	37	37	39.5	44.5
	P	mm	26	26	26	26	26	33	33
	R	mm	35	35	35	35	35	42	35
	S	mm	374	374	474	474	508	575	745
	T	mm	35	35	35	35	35	35	35
	U	mm	374	374	474	474	508	580	745
	a	mm	57	57	57	57	57	75	75
	b	mm	25.5	25.5	25.5	25.5	25.5	30	30
	c	pollici	3/32" x 90°	3/32" x 90°	3/32" x 90°	3/32" x 90°	3/32" x 90°	3/32" x 90°	3/32" x 90°
Dentatura	d	mm	M20	M20	M20	M20	M20	M24	M24
	e	mm	13	13	14	14	14	16	16
Distanza tasselli a T min./max.	f	mm	38/85	38/85	38/102	38/102	38/94	47/103	47/130
	g	mm	117.5	117	138	138	130	142	171.5
Lunghezza della dentatura min./max.	h	mm	94.5/101.5	124/131	133.5/142	143.5/152	165/173.5	190.5/200.5	243/255
	α	ang.	20	20	15	15	15	15	15
Controllo della pressione	β	ang.	9 x 40	9 x 40	12 x 30	12 x 30	12 x 30	12 x 30	12 x 30
	γ	ang.	83	83	60	60	60	60	60

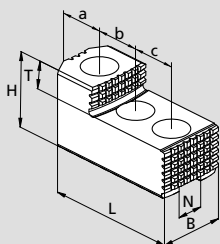
BIG BORE® BB-N

Dentatura in
POLLICI

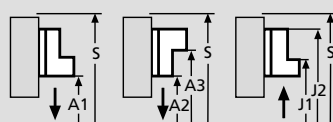
■ Morsetti
■ Tasselli a T

MHB-D

Morsetti duri
reversibili



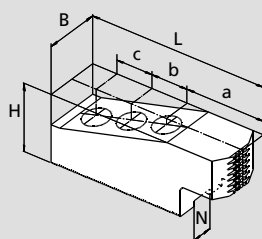
Gamme di serraggio



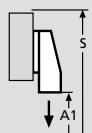
Mandrino BB-N	400-140	470-191	500-205	500-230	600-275	630-310	800-410
Tipo morsetto	MHB-D 500	MHB-D 500	MHB-D 500	MHB-D 500	MHB-D 500	MHB-D 630	MHB-D 800
Cod. / serie	12084546	12084546	12084546	12084546	12084546	12086446	12088046
B	60	60	60	60	60	75	75
H	75	75	75	75	75	85	85
L	140	140	140	140	140	160	220
T	2x19	2x19	2x19	2x19	2x19	30	30
N	25.5	25.5	25.5	25.5	25.5	30	30
Dentatura	3/32" x 90°	3/32" x 90°	3/32" x 90°	3/32" x 90°	3/32" x 90°	3/32" x 90°	3/32" x 90°
a	46	46	46	46	46	30	51
b	38	38	38	38	38	50	62
c	38	38	38	38	38	50	62
kg/serie	6.6	6.6	6.6	6.6	6.6	13.5	19.5
A1	65-238	100-273	150-358	175-378	224-424	275-485	320-590
A2	110-284	145-320	200-405	225-425	348-548	275-485	330-600
A3	294-470	330-505	385-590	410-610	447-647	475-685	590-865
J1	175-350	210-385	265-470	285-490	307-506	395-610	500-770
J2	355-530	390-565	445-650	465-670	504-704	595-810	760-1030
S	585	620	705	725	735	820	1050

GAB

Morsetti duri



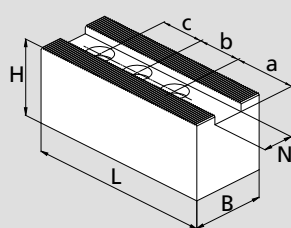
Gamme di serraggio



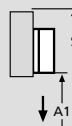
Mandrino BB-N	400-140	470-191	500-205	500-230	600-275	630-310	800-410
Tipo morsetto	GAB 500	GAB 500	GAB 500	GAB 500	GAB 500	GAB 630	GAB 800
Cod. / serie	12085146	12085146	12085146	12085146	12085146	12086546	12089046
B	55	55	55	55	55	75	75
H	73	73	73	73	73	82	82
L	195	195	195	195	195	245	320
N	25.5	25.5	25.5	25.5	25.5	30	30
Dentatura	3/32" x 90°	3/32" x 90°	3/32" x 90°	3/32" x 90°	3/32" x 90°	3/32" x 90°	3/32" x 90°
a	96	96	96	96	96	113	165
b	38	38	38	38	38	50	60
c	38	38	38	38	38	50	60
kg/serie	16.5	16.5	16.5	16.5	16.5	31.5	40.5
A1	25-140	60-175	50-260	70-280	107-308	105-320	95-272
S	585	620	705	725	700	820	1010

WBSA-D / WBC-D

Morsetti teneri



Gamme di serraggio



Mandrino BB-N	400-140	470-191	500-205	500-230	600-275	630-310	800-410
Tipo morsetto	WBSA-D 500	WBSA-D 500	WBSA-D 500	WBSA-D 500	WBSA-D 500	WBC-D 630	WBC-D 800
Cod. / pz.	12075050	12075050	12075050	12075050	12075050	12076440	12078040
B	60	60	60	60	60	80	80
H	60	60	60	60	60	80	80
L	170	170	170	170	170	240	320
N	25.5	25.5	25.5	25.5	25.5	30	30
Dentatura	3/32" x 90°	3/32" x 90°	3/32" x 90°	3/32" x 90°	3/32" x 90°	3/32" x 90°	3/32" x 90°
a	69	69	69	69	69	110	165
b	38	38	38	38	38	50	60
c	38	38	38	38	38	50	60
kg/piece	3.6	3.6	3.6	3.6	3.6	11	15
A1	25-195	60-230	105-315	125-325	161-362	110-325	95-272
S	545	580	660	680	707	815	1010



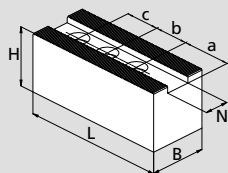
CATALOGO
MORSETTI

Richiesta o download da:
www.smwautoblok.com

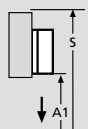
- Morsetti
- Tasselli a T
- Flange

Dentatura in
POLLICI

WBC-D, WBCL-D Morsetti teneri tornibili versione lunga

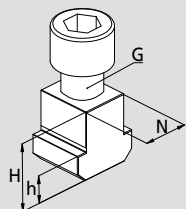


Gamme di serraggio



Mandrino BB-N	400-140	470-191	500-205	500-230	600-275	630-310	800-410
Tipo morsetto	WBC-D 502	WBC-D 502	WBC-D 502	WBC-D 502	WBC-D 502	WBC-D 800	WBCL-D 800
Cod. / pz	12075140	12075140	12075140	12075140	12075140	12078040	12079040
B	60	60	60	60	60	80	80
H	60	60	60	60	60	80	80
L	205	205	205	205	205	320	390
N	25.5	25.5	25.5	25.5	25.5	30	30
Dentatura	3/32" x 90°	3/32" x 90°	3/32" x 90°	3/32" x 90°	3/32" x 90°	3/32" x 90°	3/32" x 90°
a	104	104	104	104	104	165	230
b	38	38	38	38	38	60	60
c	38	38	38	38	38	60	60
kg / pezzo	4.5	4.5	4.5	4.5	4.5	15	18
A1	-	0-155	35-245	55-265	91-292	25-195	25-235
S	-	575	660	680	707	845	1020

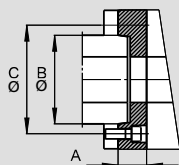
NST Tasselli a T



Mandrino BB-N	400-140	470-191	500-205	500-230	600-275	630-310	800-410
Tipo tassello	NST	NST	NST	NST	NST	NST	NST
Cod. / pz.	12065020	12065020	12065020	12065020	12065020	13063900	13063900
N	25.5	25.5	25.5	25.5	25.5	30	30
H	34	34	34	34	34	44	44
h	15	15	15	15	15	18	18
G	M20	M20	M20	M20	M20	M24	M24
Vite ISO 4762 12.9	M20 x 40	M20 x 40	M20 x 40	M20 x 40	M20 x 40	M24 x 60	M24 x 60

Flange per mandrini BIG BORE

ISO-A DIN 55026 Attacco



BB-N	400-140/470-191			500-205/500-230			600-275			630-310			800-410	
Naso macchina	A8	A11	A15	A11	A15	A20	A11	A15	A20	A11	A15	A20	A15	A20
Cod.	24184020	24114020	24124020	24115030	24125020	24175020	24116020	24126020	24176020	24116320	24126320	24176320	24128020	24178020
A mm	40	40	40	40	40	40	40	40	40	50	50	50	50	50
B mm	139.719	196.869	285.775	196.869	285.775	412.775	196.869	285.775	412.775	196.869	285.775	412.775	285.775	412.775
C mm	171.4	235	330.2	235	330.2	463.6	235	330.2	463.6	235	330.2	463.6	330.2	463.6

Flange di adattamento per montaggi a baionetta e camlock sono disponibili su richiesta

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