

- closed center
- 2 and 3 jaws (4 jaws only Ø 400 mm)



Application/customer benefits

- For chucking parts
- Suitable for vertical machines

AN-D: Master jaws with INCH serration (1/16" x 90°, 3/32" x 90°)

AN-M: Master jaws with METRIC serration (1.5 mm x 60°)
(suitable for japanese jaws)

Technical features

- Gripping force transmission via wedge hook
- Sealed against swarf and chips
- Case hardened body to assure greatest precision and long chuck life

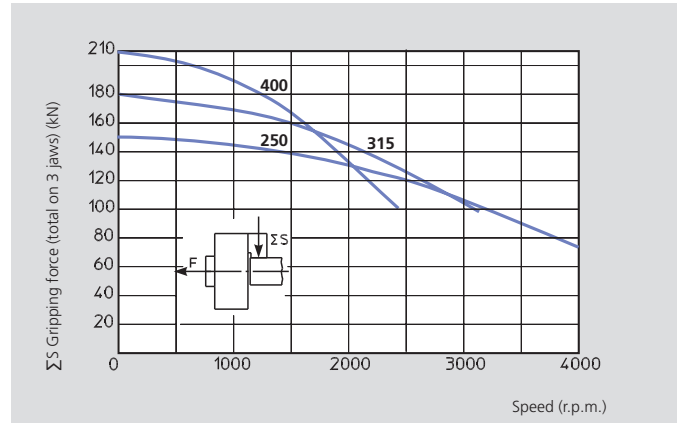
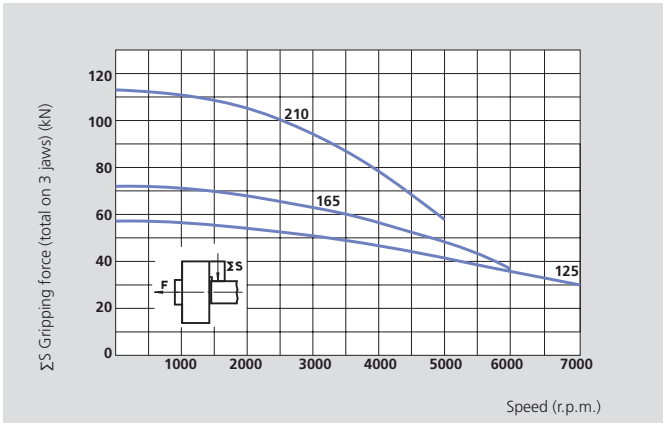
Standard equipment

- 2, 3 or 4 jaw chuck
- 1 set T-nuts with bolts
- Mounting bolts
- Grease gun

Ordering example

- 3 jaw chuck AN-D 210/A6
- or
- 2 jaw chuck AN-M 250/Z220

Actual gripping force diagrams



The data in the diagrams refer to 3-jaw-chucks, newly maintained according to their service manuals using SMW-AUTOBLOK K05 grease. The static and dynamic gripping forces have been measured using standard soft top jaws, placed in a position not exceeding the outer diameter of the chuck.

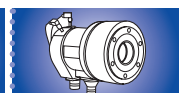
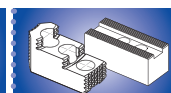
△ Safety advice/danger of damage:

When using taller/heavier jaws and/or clamping on a bigger diameter reduce draw pull/rotating speed accordingly.

Technical data

SMW-AUTOBLOK Type	AN-D 125 AN-M 125		AN-D 165 AN-M 165		AN-D 210 AN-M 210		AN-D 250 AN-M 250		AN-D 315 AN-M 315		AN-D 400 AN-M 400			
	2	3	2	3	2	3	2	3	2	3	2	3	4	
Number of jaws														
Radial jaw stroke	mm	3.2	3.6	4.4	5	6.3	7							
Axial piston stroke	mm	15	17	21	24	30	33							
Max. draw pull*	kN	14	20	17	25	25	38	33	50	40	60	50	70	70
Max. gripping force*	kN	40	56	50	72	75	115	100	150	120	180	150	210	210
Max. speed	r.p.m.	7000	6000	5000	4000	3200	2400	2000						
Weight (without top jaws)	kg	5.5	9.5	19	32	56	84							
Moment of inertia	kg·m ²	0.011	0.032	0.105	0.26	0.69	1.6							
Recommended actuating cylinders		SIN-S 85/100		SIN-S 100		SIN-S 100/125		SIN-S 125/150		SIN-S 125/150		SIN-S 150/175		

* For internal clamping reduce the draw pull by 30 %



High precision power chucks \varnothing 125 - 400 mm

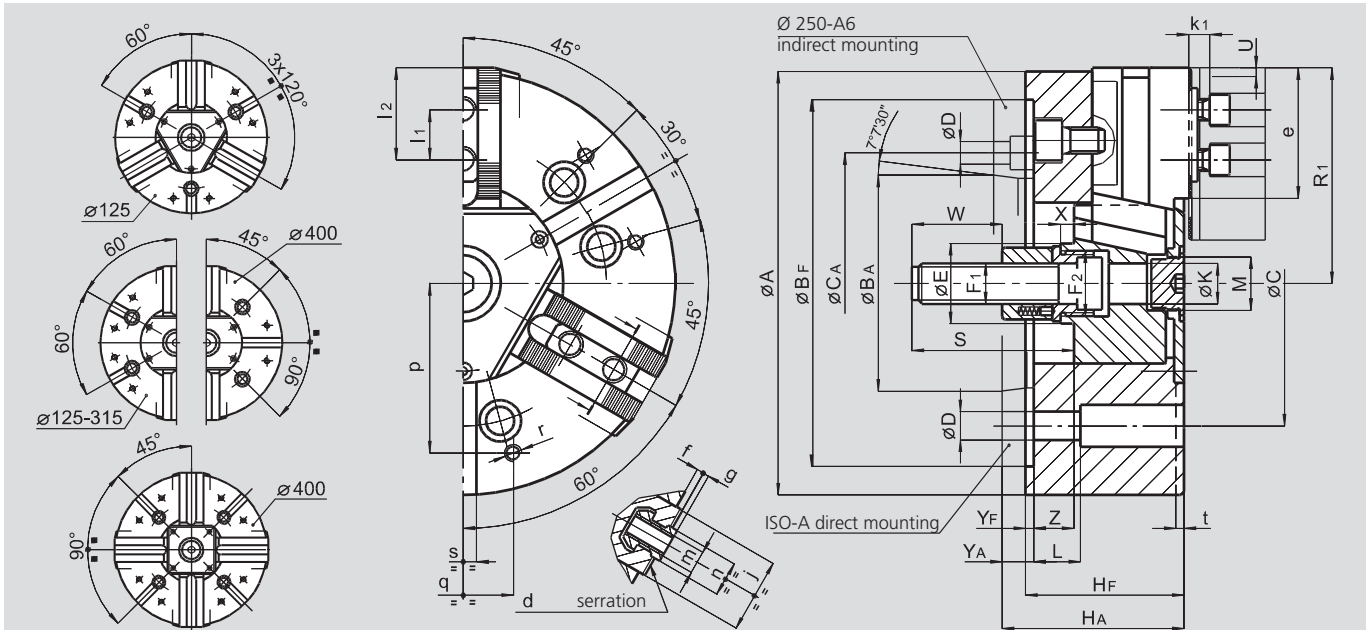
AN-D

AN-M

- closed center
- 2 and 3 jaws (4 jaws only \varnothing 400 mm)

INCH serration

METRIC serration



Subject to technical changes
For more detailed information please ask for customer drawing

SMW-AUTOBLOK Type	AN-D 125 AN-M 125		AN-D 165 AN-M 165		AN-D 210 AN-M 210		AN-D 250 AN-M 250			AN-D 315 AN-M 315		AN-D 400 AN-M 400	
	Z115	A4	Z140	A5	Z170	A6	Z220	A6	A8	Z220	A8	Z300	A11
A	mm 127		165		210		254			315		390	
Bf/BA H6	mm 115 63.513		140 82.563		170 106.375		220 106.375 139.719			220 139.719		300 196.869	
C	mm 82.6		104.8		133.4		171.4 - 171.4			171.4		235	
CA	mm - -		- -		- -		- 133.4 -			- -		- -	
D	mm 11.5		11.5		13.5		17 13.5 17			17		21	
E	mm 25		32		41		47			47		86	
F1	mm M12 x 1.25		M16		M20		M24			M24		M24	
F2	mm M18 x 1.5		M24 x 2		M32 x 1.5		M38 x 1.5			M38 x 1.5		M75 x 2	
Hf/HA	mm 59 67		71 81		85 97		95 114 109			105 119		116 131	
K	mm 9		17		20		25			25		65	
L	mm 32		23		32		28			38		54	
M	mm M16 x 1.5		M24 x 1.5		M32 x 1.5		M32 x 1.5			M38 x 1.5		M68 x 2	
Chuck open R1	mm 64		83		105		128			158		196	
S	mm 77		104		97		103			103		105	
Jaw stroke U	mm 3.2		3.6		4.4		5			6.3		7	
W	mm 40		52		55		60			60		60	
X	mm 12		17		8		8			8		8	
Yf/YA	mm 5 13		5 15		5 17		5 24 19			5 19		6 21	
max./min. Z	mm 15/0		17/0		21/0		24/0			30/0		33/0	
AN-D d	inch 1/16" x 90°		1/16" x 90°		1/16" x 90°		1/16" x 90°			1/16" x 90°		3/32" x 90° (1)	
AN-M d	mm 1.5 x 60°		1.5 x 60°		1.5 x 60°		1.5 x 60°			1.5 x 60°		1.5 x 60°	
e	mm 37		48		60		77			99		116	
f	mm 3		4		3		4			4		6	
g	mm 2.5		2.5		3		3.5			3.5		3.5	
j	mm 26		30		36		45			45		62	
k1	mm 10		10		11		12			12		14	
AN-D l1	mm 16		16.5		23		30			30		38	
AN-M l1	mm 16		20		25		30			30		38	
max./min. l2	mm 30/23		40/24		50/33		62/43			84/43		90/49	
AN-D m	mm M8		M10		M12		M16			M16		M20	
AN-M m	mm M8		M10		M12		M12			M16		M20	
AN-D n	h8 mm 12		14		17		21			21		25.5	
AN-M n	h8 mm 12		12		14		16			21		22	
p	mm 52		65		80		102			120		150	
q	mm 30		36		45		60			60		80	
r	mm M6		M8		M8		M10			M10		M12	
s	mm 12		16		16		16			16		20	
t	mm 5		5		5		5			5		5	

(1) serration 1/16 x 90° on request