

AN-D**AN-M****High precision power chuck Ø 125 - 400 mm****INCH
SERRATION****METRIC
SERRATION**

- 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 chuck top jaws)**Technical features**

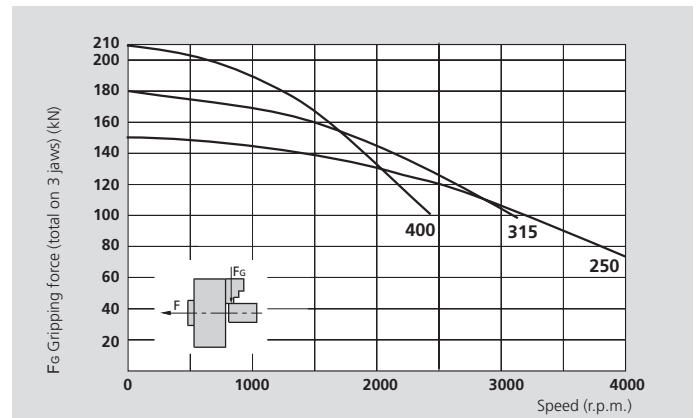
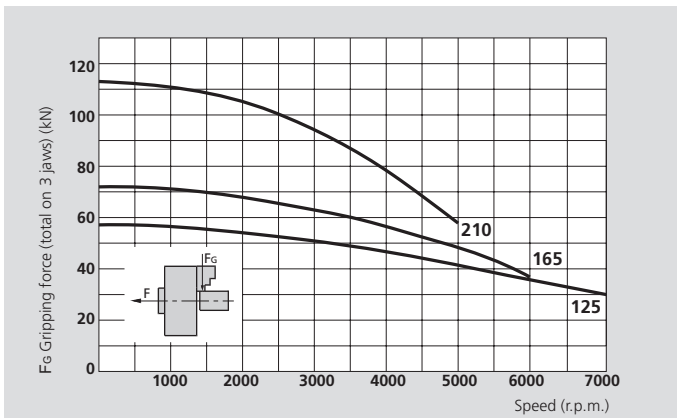
- Gripping force transmission via wedge hook
- Sealed against swarfs and chips
- Case hardened body to assure greatest precision and long chuck life

Standard equipment

- 2-, 3- or 4-jaw chuck
- 1 set T-nuts with bolts
- 1 set soft top jaws
- Mounting bolts

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 K67 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.

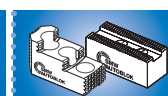
△ Safety advice / danger of damage:

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-D 165		AN-D 210		AN-D 250		AN-D 315		AN-D 400		
		AN-M 125	AN-M 165	AN-M 165	AN-M 210	AN-M 250	AN-M 250	AN-M 315	AN-M 315	AN-M 400	AN-M 400	AN-M 400		
Number of jaws		2	3	2	3	2	3	2	3	2	3	2	3	4
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	Type	SIN-S 85 / 100		SIN-S 100		SIN-S 100 / 125		SIN-S 125 / 150		SIN-S 125 / 150		SIN-S 150 / 175		
Id-No. AN-D 2 jaws (Center mounting)		77140113		77140116		77140121		77140125		77140131		77140140		
Id-No. AN-D 3 jaws (4 jaws 77140540) (C. m.)		77140313		77140316		77140321		77140325		77140331		77140340		
Id-No. AN-M 2 jaws (Center mounting)		77140213		77141516		77141521		77141525		77140231		77140240		
Id-No. AN-M 3 jaws (4 jaws 77140640) (C. m.)		77140413		77141616		77141621		77141625		77140431		77140440		

* For internal clamping reduce the draw pull by 30%.

SMW-AUTOBLOK
466SMW-AUTOBLOK
468SMW-AUTOBLOK
327

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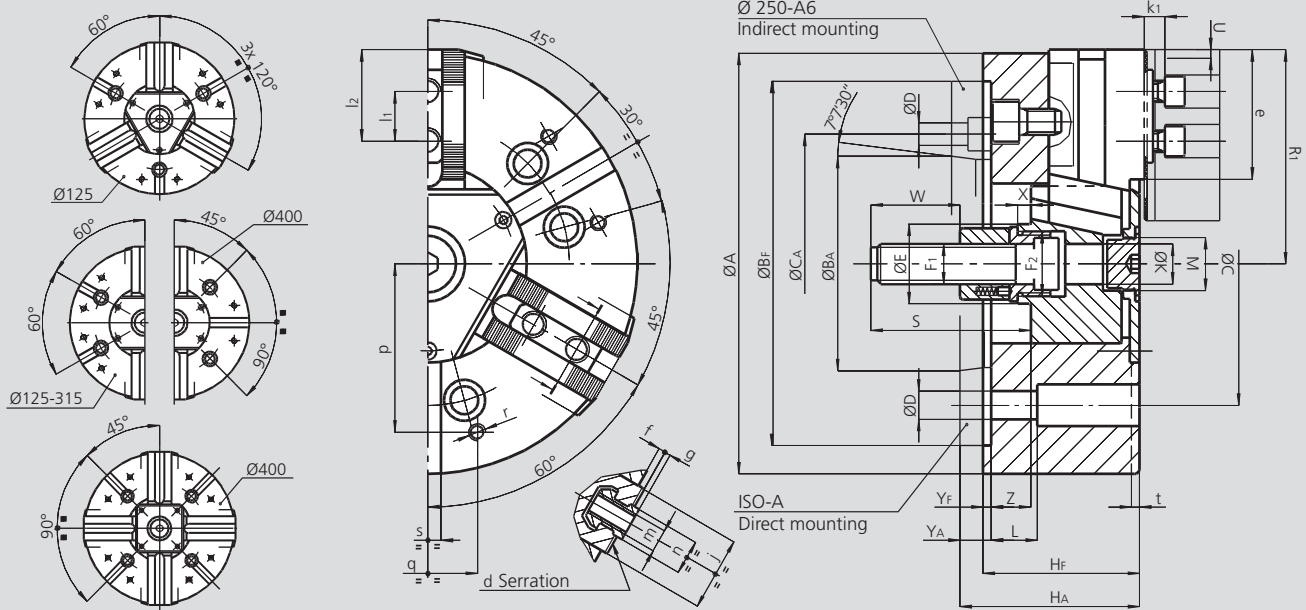
AN-D

AN-M

- Closed center
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INCH
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Subject to technical changes.
For more detailed information please ask our customer service.

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	
Mounting		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	4		5		5		5			5		5	

⁽¹⁾ Serration 1/16 x 90° on request.