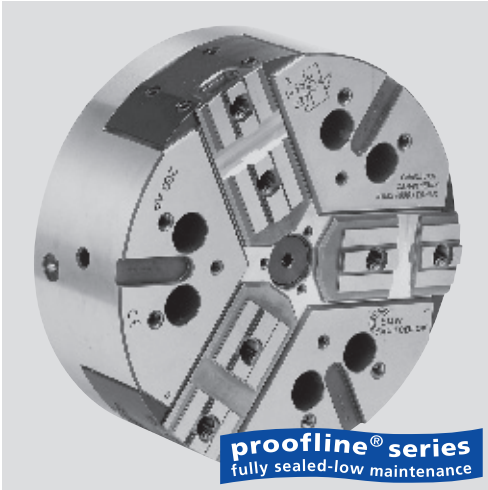


APL-C

Tongue & groove

High precision power chucks Ø 215 - 400 mm

- LONG STROKE
- closed center
- 3 jaws
- **proofline®** chucks = fully sealed – low maintenance



Application/customer benefits

- For large batch production
- Fully sealed, ideal for dry machining of castings and forgings or if high pressure coolant is used
- Large clamping range

APL-C: Tongue & groove master jaws (American Standard)

Technical features

- Extra long jaw stroke
- Constant gripping force with permanent grease lubrication
- Center bore for coolant and/or air
- Chuck body and internal parts case hardened
- **proofline® chucks** = fully sealed – low maintenance

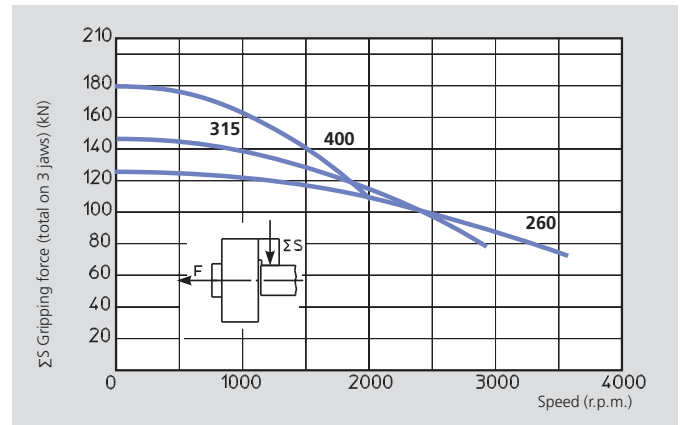
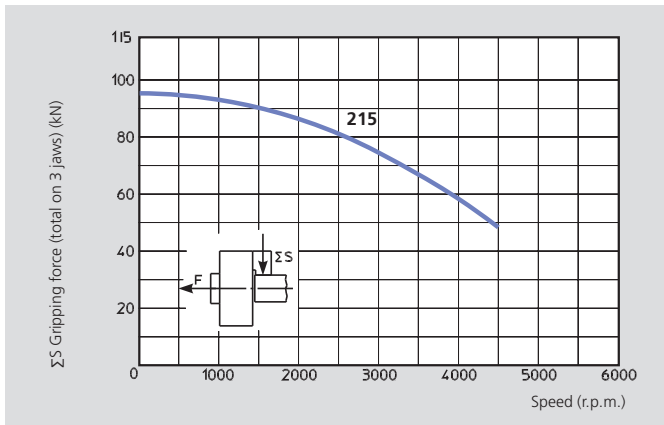
Standard equipment

3 jaw chuck
mounting bolts

Ordering example

3 jaw chuck APL-C 215/A6

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		APL-C 215	APL-C 260	APL-C 315	APL-C 400
Radial jaw stroke	mm	8.5	9.7	12.1	13.3
Axial piston stroke	mm	21	24	30	33
Max. draw pull*	kN	53	68	80	100
Max. gripping force*	kN	95	125	145	180
Max. speed	r.p.m.	4500	3600	2800	2000
Weight (without top jaws)	kg	19.5	32.5	56	90
Moment of inertia	kg·m ²	0.113	0.28	0.69	1.7
Recommended actuating cylinders		SIN-S 100/125	SIN-S 125/150	SIN-S 125/150	SIN-S 150/175

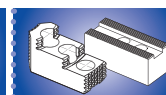
* For internal clamping reduce the draw pull by 30 %



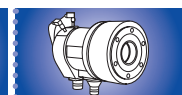
on request:
Tooling Standard
Parts Catalog



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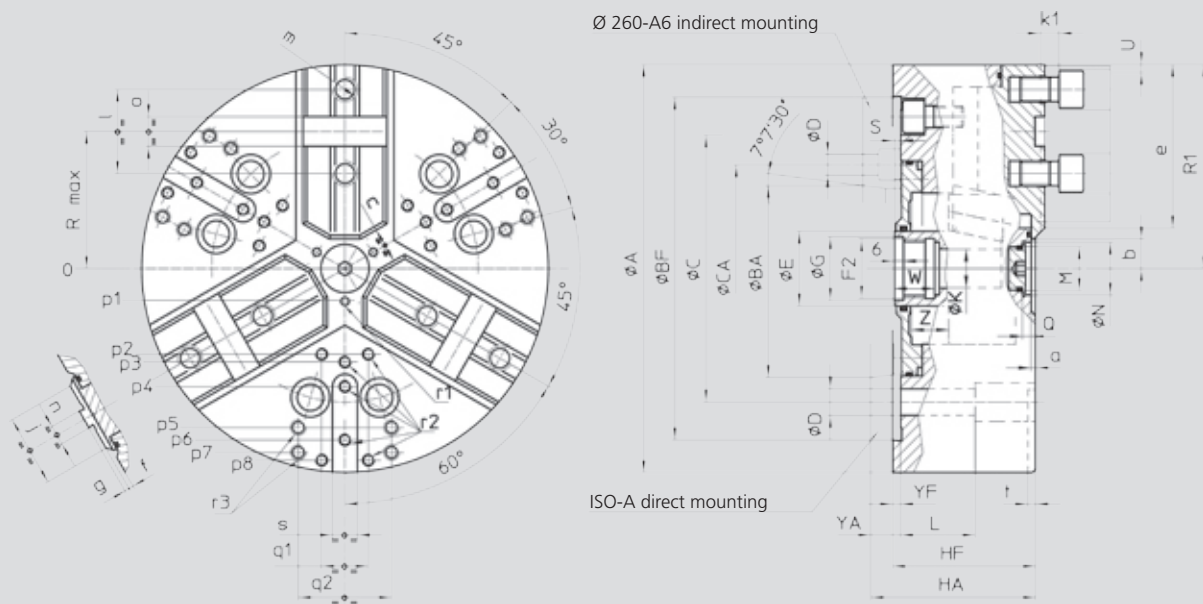
High precision power chucks Ø 215 - 400 mm

- LONG STROKE
- closed center
- 3 jaws
- proofline® chucks = fully sealed – low maintenance

APL-C

Tongue & groove

1



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

SMW-AUTOBLOK Type	APL-C 215		APL-C 260			APL-C 315		APL-C 400			
	Mounting		Z170	A6	Z220	A6	A8	Z220	A8	Z300	A11
	A	mm	216		262			315		390	
	BF/BA	H6 mm	170	106.375	220	106.375	139.719	220	139.719	300	196.869
	C	mm	133.4		171.4	171.4		171.4		235	
	CA	mm	-	-	-	133.4	-	-	-	-	-
	D	mm	13.5		17	13.5	17	17	17	21	21
	E	mm	42		48			48		75	
	F2	mm	M32 x 1.5		M38 x 1.5			M38 x 1.5		M60 x 1.5	
	G	H8 mm	33		39			39		61	
	HF/HA	mm	81	93	92	111	106	101	115	112	127
	K	mm	20		25			25		48	
	L	mm	32		38			38		54	
	M	mm	M22 x 1.5		M28 x 1.5			M28 x 1.5		M52 x 1.5	
	N	H9 mm	24		34			34		60	
	Q	mm	5.5		5.5			5.5		9	
Chuck open	R1	mm	112.5		136			163.5		202	
max.	R	mm	76		92.5			111		139	
max./min.	S	mm	25/4		28/4			34/4		37/4	
Radial jaw stroke	U	mm	8.5		9.7			12.1		13.3	
	W	mm	26		26			26		38	
max./min.	YF/YA	mm	5	17	5	24	19	5	19	6	21
	Z	mm	21/0		24/0			30/0		33/0	
	a	mm	3		3			3		3	
min.	b	mm	8.5		9			11		24.5	
min.	c	mm	6.2		6			6		28	
	e	mm	87		107			129		150	
	f	mm	3		3			3		6	
	g	mm	3		3			3		3	
	j	mm	46		48			58		63	
	k1	mm	11		12			12		14	
	l	mm	44.4		54			63.5		76.2	
	m	mm	M12		M16			M16		M20	
	n	h8 mm	7.94		12.70			12.70		12.70	
	o	H7 mm	12.68		19.03			19.03		19.03	
	p1	mm	16		21			21		37.5	
	p2	mm	-		-			60		80	
	p3	mm	49		55			62.5		83	
	p4	mm	80		70			80		110	
	p5	mm	80		102			102		140	
	p6	mm	-		102			120		155	
	p7	mm	-		-			135		170	
	p8	mm	-		-			-		170	
	q1	mm	-		-			30		36	
	q2	mm	45		60			60		80	
	r1	mm	M5/8		M6/10			M6/10		M6/12	
	r2	mm	M8/17		M8/17			M8/17		M10/19	
	r3	mm	M8/17		M10/19			M10/19		M12/22	
	s	mm	16		16			16		20	
	t	mm	5		5			5		5	