

- centrifugal force compensation
- closed center
- 3 jaws
- proofline® chucks = fully sealed – low maintenance



Application/customer benefits

- For large batch production/high speed machining and for fragile parts
- Fully sealed, ideal for dry machining of castings and forgings or if high pressure coolant is used

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

Technical features

- Centrifugal force compensation
- 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

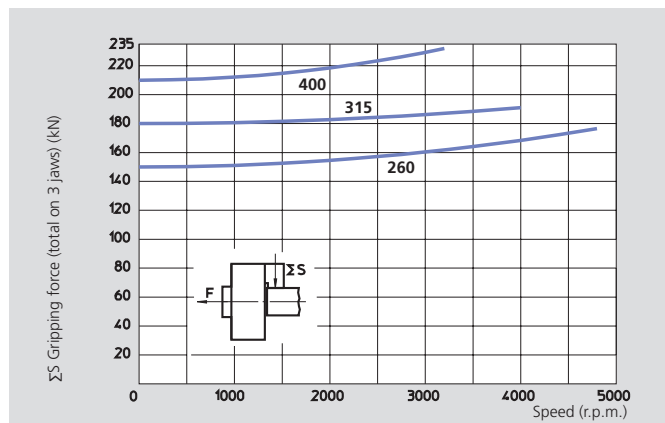
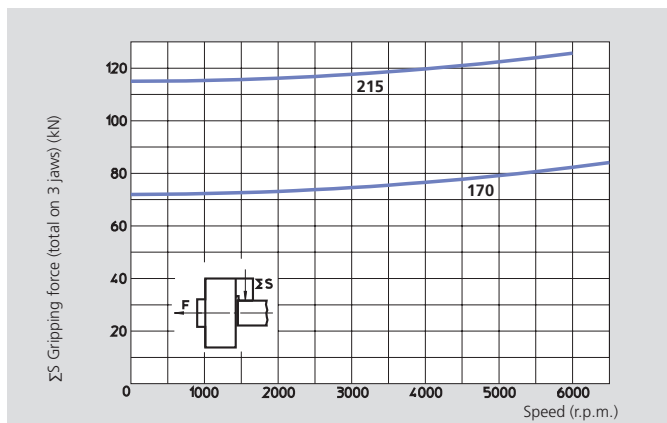
Standard equipment

3 jaw chuck
mounting bolts

Ordering example

3 jaw chuck NT-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

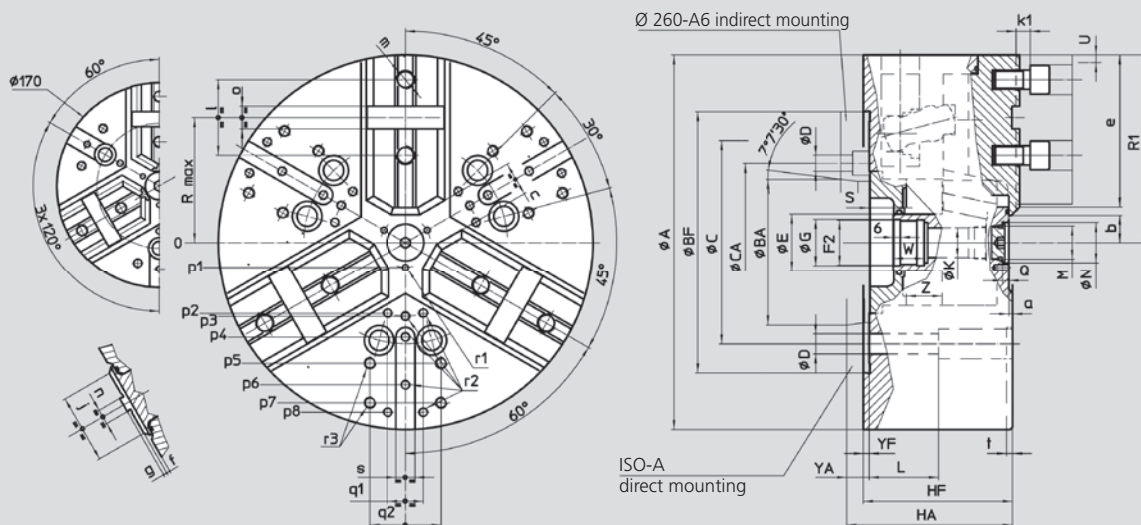
SMW-AUTOBLOK Type		NT-C 170	NT-C 215	NT-C 260	NT-C 315	NT-C 400
Number of jaws		3	3	3	3	3
Radial jaw stroke	mm	3.6	4.6	5	6.3	7
Axial piston stroke	mm	17	22	24	30	33
Max. draw pull	kN	30	42	55	65	75
Max. gripping force	kN	72	112	150	180	210
Max. speed	r.p.m.	6500	6000	4800	4000	3200
Weight (without top jaws)	kg	13	25	40	68	112
Moment of inertia	kg·m ²	0.048	0.146	0.34	0.84	2.15
Recommended actuating cylinders		SIN-S 100	SIN-S 100/125	SIN-S 125/150	SIN-S 125/150	SIN-S 150/175

High precision power chucks Ø 170 - 400 mm

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NT-C

Tongue & groove



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

SMW-AUTOBLOK Type			NT-C 170		NT-C 215		NT-C 260			NT-C 315		NT-C 400	
Mounting			Z140	A5	Z170	A6	Z220	A6	A8	Z220	A8	Z300	A11
	A	mm	172		216			262		315		390	
	Bf/BA H6	mm	140	82.563	170	106.375	220	106.375	139.719	220	139.719	300	196.869
	C	mm	104.8		133.4		171.4	-	171.4	171.4		235	
	CA	mm	-	-	-	-	-	133.4		-	-	-	-
	D	mm	11.5		13.5		17	13.5	17	17		21	
	E	mm	32		42			48		48		75	
	F2	mm	M24 x 2		M32 x 1.5			M38 x 1.5		M38 x 1.5		M60 x 1.5	
	G H8	mm	25		33		39			39		61	
	Hf/HA	mm	92	102	104	116	118	137	132	125	139	149	164
	K	mm	18.5		20			25		25		48	
	L	mm	43		52			58		58		74	
	M	mm	M22 x 1.5		M22 x 1.5			M28 x 1.5		M28 x 1.5		M52 x 1.5	
	N H9	mm	24		24			34		34		60	
	Q	mm	5.5		5.5			5.5		5.5		9	
max.	R	mm	56		72			88		105		133.5	
Chuck open	R1	mm	86.5		108			131		157.5		195	
max./min.	S	mm	20/3		19/-3			22/-2		20/-10		33/0	
Chuck fully closed	T	mm	175		220			-		-		-	
Radial jaw stroke	U	mm	3.6		4.6			5		6.3		7	
	W	mm	22		26			26		26		38	
max./min.	Yf/YA	mm	5	15	5	17	5	24	19	5	19	6	21
	Z	mm	17/0		22/0			24/0		30/0		33/0	
	a	mm	3		3			3		3		3	
min.	b	mm	8.5		12			14		16.5		31	
min.	c	mm	9		13			14		16		38	
	e	mm	70		87			107		129		150	
	f	mm	3		3			3		3		6	
	g	mm	3		3			3		3		3	
	j	mm	34		46			48		58		63	
	k1	mm	10		11			12		12		14	
	l	mm	38		44.4			54		63.5		76.2	
	m	mm	M10		M12			M16		M16		M20	
	n	mm	7.94		7.94			12.7		12.7		12.7	
	o	mm	12.68		12.68			19.03		19.03		19.03	
	p1	mm	16		16			21		21		37.5	
	p2	mm	-		-			-		60		80	
	p3	mm	38		49			55		62.5		83	
	p4	mm	-		80			70		80		110	
	p5	mm	65		80			102		102		140	
	p6	mm	70		-			102		120		155	
	p7	mm	-		-			-		135		170	
	p8	mm	-		-			-		-		170	
	q1	mm	-		-			-		30		36	
	q2	mm	36		45			60		60		80	
	r1	mm	M5/7		M5/8			M6/10		M6/10		M6/12	
	r2	mm	M6/14		M8/17			M8/17		M8/17		M10/19	
	r3	mm	M8/17		M8/17			M10/19		M10/19		M12/22	
	s	mm	16		16			16		16		20	
	t	mm	5		5			5		5		5	