

NTL-C

LONG STROKE
TONGUE & GROOVE

High precision power chucks Ø 260 - 400 mm

- Centrifugal force compensation
- Closed center - 3 jaws
- Long stroke
- 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

NTL-C: TONGUE & GROOVE master jaws (American Standard)

Technical features

- Long jaw stroke
- 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

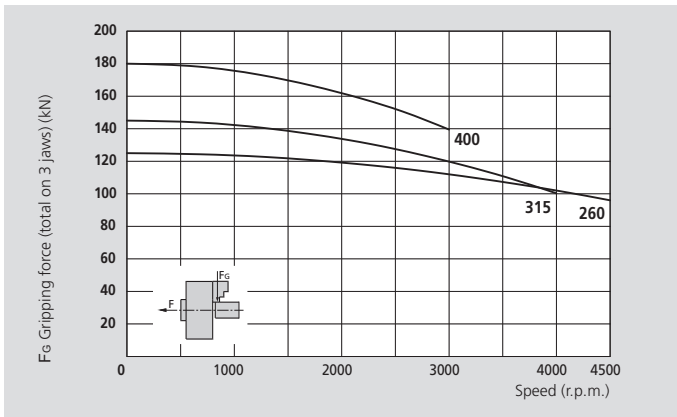
Standard equipment

3 jaw chuck
Mounting bolts

Ordering example

3 jaw chuck NTL-C 260 / A6

Actual gripping force diagram



The data in the diagram 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.

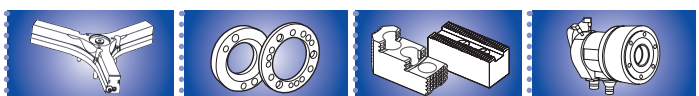
⚠ Safety advice / danger of damage:

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

Technical data

SMW-AUTOBLOK Type		NTL-C 260	NTL-C 315	NTL-C 400
Number of jaws		3	3	3
Radial jaw stroke	mm	9	11	12
Axial piston stroke	mm	22.3	27.3	30
Max. draw pull*	kN	68	80	100
Max. gripping force*	kN	125	145	180
Max. speed	r.p.m.	4400	3700	3000
Weight (without top jaws)	kg	44	69	114
Moment of inertia	kg·m ²	0.35	0.85	2.15
Recommended actuating cylinders	Type	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

• SMW-AUTOBLOK
• 438

• SMW-AUTOBLOK
• 440

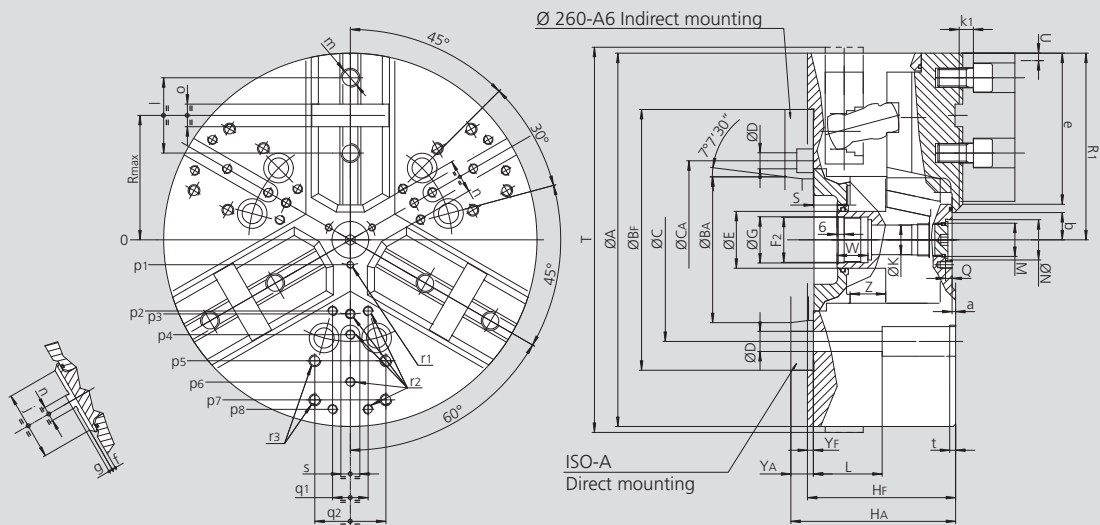
• SMW-AUTOBLOK
• 297

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Subject to technical changes.
For more detailed information please ask our customer service.

SMW-AUTOBLOK Type			NTL-C 260			NTL-C 315		NTL-C 400	
Mounting			Z220	A6	A8	Z220	A8	Z300	A11
	A	mm		262		315		390	
	Bf/BA H6	mm	220	106.375	139.719	220	139.719	300	196.869
	C	mm	171.4	-	171.4		171.4		235
	CA	mm	-	133.4	-	-	-	-	-
	D	mm	17	13.5	17	17			21
	E	mm		48		48			75
	F2	mm		M38 x 1.5		M38 x 1.5			M60 x 1.5
	G H8	mm		39		39			61
	Hf/HA	mm	118	137	132	125	139	149	164
	K	mm		25		25			48
	L	mm		58		58			74
	M	mm		M28 x 1.5		M28 x 1.5			M52 x 1.5
	N H9	mm		34		34			60
	Q	mm		5.5		5.5			9
	R	mm		92.5		111			139
Chuck open	R1	mm		136		163.6			202
Max. / min.	S	mm		22 / -0.3		20 / -7.3			33 / 3
Chuck fully closed	T	mm		275		328			412
Radial jaw stroke	U	mm		9		11			12
	W	mm		26		26			38
	Yf/YA	mm	5	24	19	5	19	6	21
Max. / min.	Z	mm		22.3 / 0		27.3 / 0			30 / 0
	a	mm		3		3			3
Min.	b	mm		10		12			26
Min.	c	mm		7.4		7.9			30
	e	mm		110		134			154
	f	mm		3		3			6
	g	mm		3		3			3
	j	mm		48		58			63
	k1	mm		12		12			14
	l	mm		54		63.5			76.2
	m	mm		M16		M16			M20
	n	mm		12.7		12.7			12.7
	o	mm		19.03		19.03			19.03
	p1	mm		21		21			37.5
	p2	mm		-		60			80
	p3	mm		55		62.5			83
	p4	mm		70		80			110
	p5	mm		102		102			140
	p6	mm		102		120			155
	p7	mm		-		135			170
	p8	mm		-		-			170
	q1	mm		-		30			36
	q2	mm		60		60			80
	r1	mm		M6 / 10		M6 / 10			M6 / 12
	r2	mm		M8 / 17		M8 / 17			M10 / 19
	r3	mm		M10 / 19		M10 / 19			M12 / 22
	s	mm		16		16			20
	t	mm		5		5			5