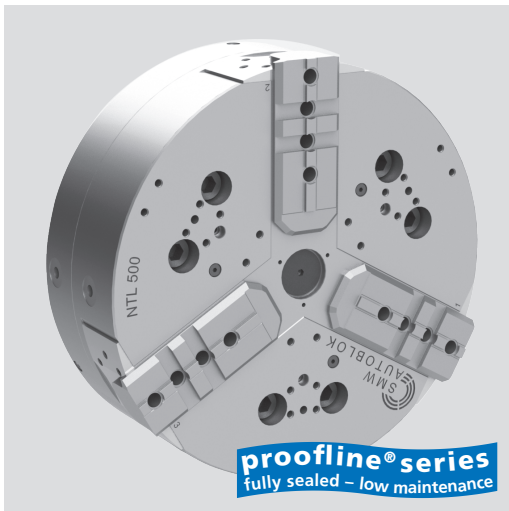


NTL-DINCH
SERRATION**NTL-C**

TONGUE & GROOVE

High precision power chuck Ø 500 - 1000 mm

- Centrifugal force compensation
- Closed center - 3 jaws
- Long stroke
- proofline® chucks = fully sealed - low maintenance

**Application/customer benefits**

- For mid to large batch production
- Safe clamping through centrifugal force compensation, even of deformation-sensitive parts at highest speeds
- Fully sealed, ideal for dry machining of castings and forgings or if high pressure coolant is used

NTL-D: Master jaws with INCH SERRATION (3/32" x 90°)**NTL-C:** Master jaws with TONGUE & GROOVE**Technical features**

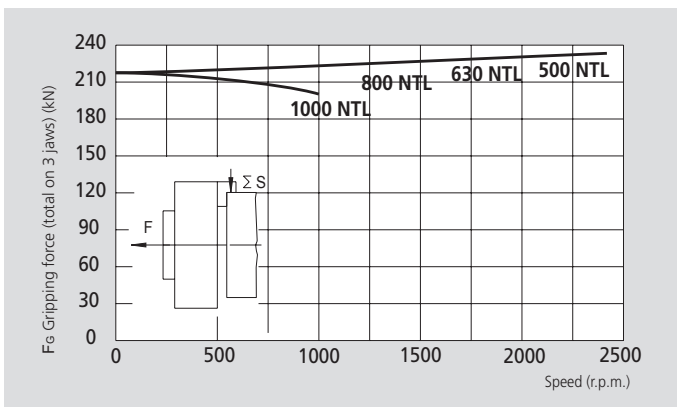
- EXTRA long jaw stroke
- Centrifugal force compensation via counterweights
- Constant gripping force with permanent grease lubrication
- Center bore for coolant and / or air
- Chuck body and internal parts case hardened
- **proofline® chucks** = fully sealed - low maintenance

Standard equipment

3-jaw chuck
1 set soft top jaws
Mounting bolts

Ordering example

3-jaw chuck NTL-D 500 / Z380
or
3-jaw chuck NTL-C 800 / Z520

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-D 500 NTL-C 500	NTL-D 630 NTL-C 630	NTL-D 800 NTL-C 800	NTL-D 1000 NTL-C 1000
Radial jaw stroke	mm	12.1	12.1	12.1	12.1
Axial piston stroke	mm	30	30	30	30
Max. draw pull*	kN	120	120	120	120
Max. gripping force*	kN	240	240	240	240
Max. speed	r.p.m.	2400	2000	1500	1000
Weight (without top jaws)	kg	255	420	680	970
Moment of inertia	kg·m²	8.2	21.2	55.7	110
Recommended actuating cylinders	Type	SIN-S 175 / 200	SIN-S 175 / 200	SIN-S 175 / 200	SIN-S 175 / 200
Id. No. NTL-D		77184651	77184664	77184680	77184690
Id. No. NTL-C		77189151	77189164	77189180	77189190

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



• on request:
• Tooling Standard
• Parts Catalog

• SMW-AUTOBLOK
• 466

• SMW-AUTOBLOK
• 468

• SMW-AUTOBLOK
• 327

High precision power chuck Ø 500 - 1000 mm

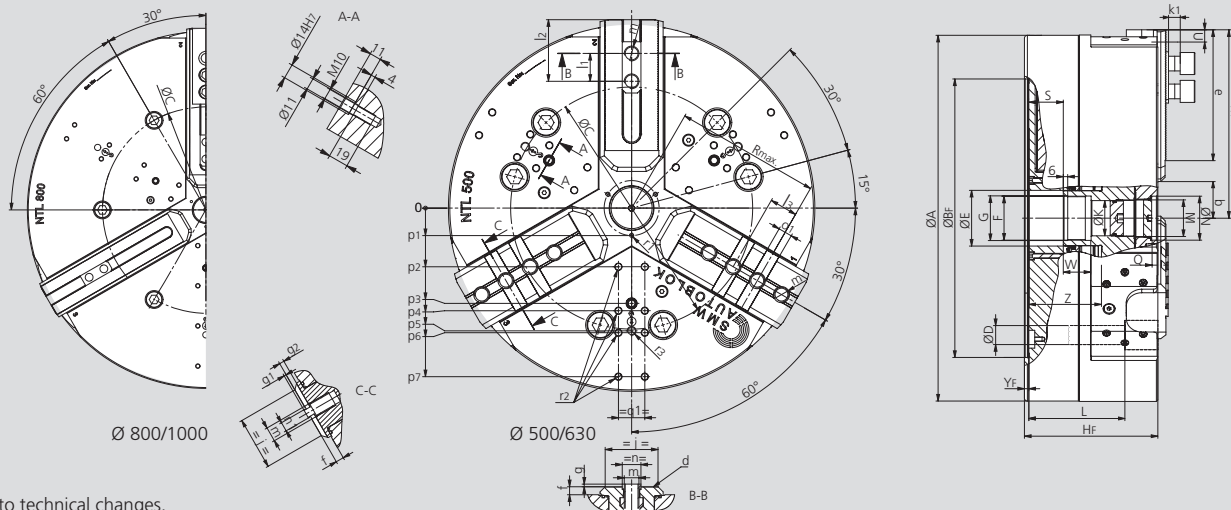
- Centrifugal force compensation
- Closed center - 3 jaws
- Long stroke
- proofline® chucks = fully sealed - low maintenance

NTL-D

INCH
SERRATION

NTL-C

TONGUE & GROOVE



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

SMW-AUTOBLOK Type			NTL-D 500 NTL-C 500	NTL-D 630 NTL-C 630	NTL-D 800 NTL-C 800	NTL-D 1000 NTL-C 1000
Mounting			Z380	Z380	Z520	Z520
	A	mm	500	630	800	1000
	Bf	H6 mm	380	380	520	520
	C	mm	330.2	330.2	463.6	463.6
	D	mm	26	26	26	26
	E	mm	75	75	75	75
	F	mm	M60 x 1.5	M60 x 1.5	M60 x 1.5	M60 x 1.5
	G	H8 mm	61	61	61	61
	Hf	mm	182	182	182	187
	K	mm	48	48	48	48
	L	mm	131	131	131	146
	M	mm	M52 x 1.5	M52 x 1.5	M52 x 1.5	M52 x 1.5
	N	H8 mm	60	60	60	60
	Q	mm	7.5	7.5	7.5	7.5
Chuck open	R1	mm	257	322	407	507
	R max.	mm	198	250	351	465
	S	mm	47	47	47	52
Jaw stroke	U	mm	12.1	12.1	12.1	12.1
	W	mm	38	38	38	38
Max. / min.	Z	mm	99.5 / 69.5	99.5 / 69.5	99.5 / 69.5	99.5 / 69.5
Min.	b	mm	38	38	38	38
	d	Inch	3 / 32 x 90°	3 / 32 x 90°	3 / 32 x 90°	3 / 32 x 90°
	e	mm	177	242	327	457
	f	mm	11	11	11	11
	g	mm	3.5	3.5	3.5	3.5
	g1	mm	3	3	3	3
	g2	mm	6.5	6.5	6.5	6.5
	j	mm	72	72	72	72
	k1	mm	16	16	16	16
	l1	mm	38	38	38	38
Max. / min.	l2	mm	145 / 54	210 / 54	295 / 54	393 / 54
	l3	mm	38.1	38.1	38.1	38.1
	m	mm	M20	M20	M20	M20
	n	h8 mm	25.5	25.5	25.5	25.5
	n1	h8 mm	12.7	12.7	12.7	12.7
	o1	H8 mm	19.03	19.03	19.03	19.03
	p1	mm	37.5	37.5	37.5	37.5
	p2	mm	80	80	80	80
	p3	mm	130	130	130	130
	p4	mm	140	170	170	170
	p5	mm	167.5	280	280	280
	p6	mm	170	-	260	260
	p7	mm	230	260	350	350
	q1	mm	36	36	36	36
	r1	mm	M6	M6	M6	M6
	r2	mm	M10	M10	M10	M10
	r3	mm	M12	M16	M16	M16
	YF	mm	6	6	6	6
Number of 01 cross grooves (only for NTL-C)			2	3	6	9
Number of "m" threads (only for NTL-C)			4	5	8	10