

NTL-D

INCH serration

NTL-M

METRIC serration

High precision power chucks Ø 260 - 400 mm

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



Application/customer benefits

- For mid to 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-D: Master jaws with INCH serration (1/16" x 90°, 3/32" x 90°)

NTL-M: Master jaws with METRIC serration (1.5 mm x 60°)
(suitable for japanese chuck top jaws)

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
- **proffline® chucks** = fully sealed – low maintenance

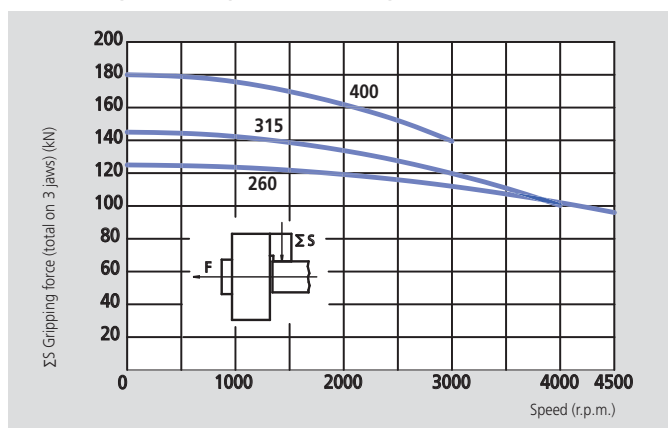
Standard equipment

- 3 jaw chuck
- 1 set T-nuts and bolts
- 1 set soft top jaws

Ordering example

- 3 jaw chuck NTL-D 260/A6
- or
- 3 jaw chuck NTL-M 260/Z220

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:

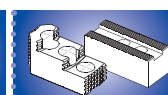
When using taller/heavier jaws and/or clamping on a bigger diameter reduce draw pull/rotating speed accordingly.

Technical data

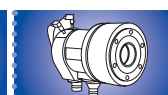
SMW-AUTOBLOK Type		NTL-D 260 NTL-M 260	NTL-D 315 NTL-M 315	NTL-D 400 NTL-M 400
Number of jaws		3	3	3
Radial jaw stroke	mm	9	11	12
Axial piston stroke	mm	22.3	27.3	30
Max. draw pull	kN	68	80	100
Max. gripping force	kN	125	145	180
Max. speed	r.p.m.	4400	3700	3000
Mass (without top jaws)	kg	44	69	114
Moment of inertia	kg·m ²	0.35	0.85	2.15
Recommended actuating cylinders		SIN-S 125/150	SIN-S 125/150	SIN-S 150/175



Page 282



Page 284



Page 197