

AL-D

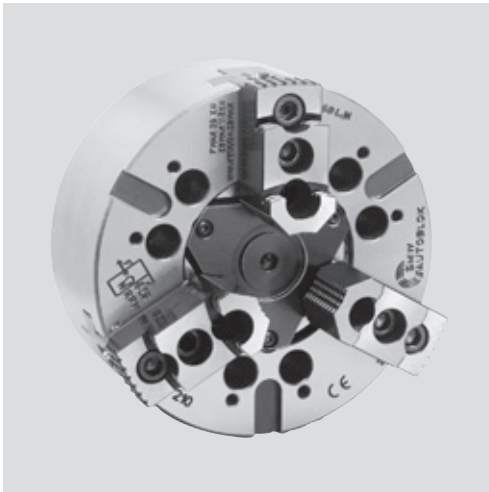
INCH serration

AL-M

METRIC serration

High precision power chucks Ø 125 - 400 mm

- closed center
- LONG STROKE
- 2 and 3 jaws (4 jaws only Ø 400 mm)

**Application/customer benefits**

- For chucking parts
- Suitable for vertical machines
- Long clamping stroke (possibility to clamp 1st and 2nd operation with the same jaws)

AL-D: Master jaws with INCH serration (1/16" x 90°, 3/32" x 90°)**AL-M:** Master jaws with METRIC serration (1.5 mm x 60°)
(suitable for japanese jaws)**Technical features**

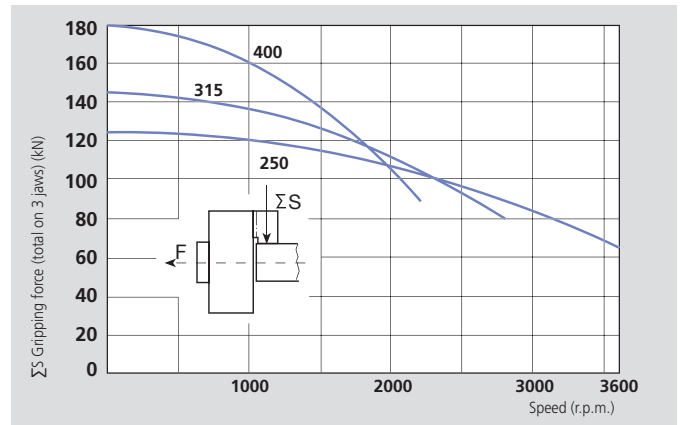
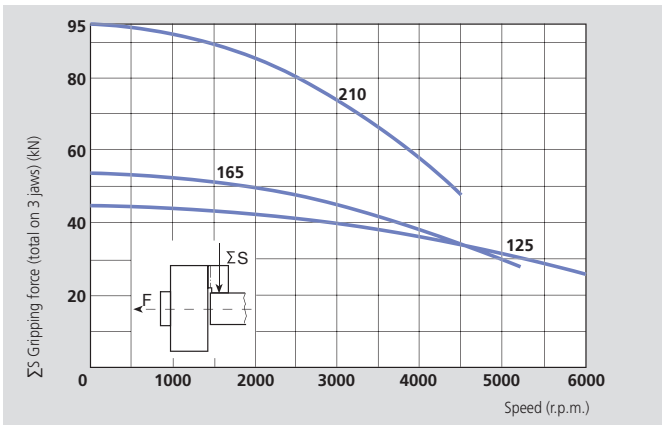
- Extra long jaw stroke
- Gripping force transmission via wedge hook
- Case hardened body to assure greatest precision and long chuck life

Standard equipment

2, 3 or 4 jaw chuck
 1 set T-nuts with bolts
 1 set soft top jaws
 Mounting bolts
 Grease gun

Ordering example

3 jaw chuck AL-D 210/A6
 or
 2 jaw chuck AL-M 250/Z220

Actual gripping force diagrams

The data in the diagrams refer to 3-jaw-chucks, newly maintained according to their service manuals using SMW-AUTOBLOK K05 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.

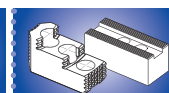
Technical data

SMW-AUTOBLOK Type	AL-D 125 AL-M 125		AL-D 165 AL-M 165		AL-D 210 AL-M 210		AL-D 250 AL-M 250		AL-D 315 AL-M 315		AL-D 400 AL-M 400			
	2	3	2	3	2	3	2	3	2	3	2	3	4	
Number of jaws														
Radial jaw stroke	mm	6		7		8.5		10		12		13		
Axial piston stroke	mm	15		17		21		25		30		33		
Max. draw pull*	kN	17	25	20	30	35	53	45	68	54	80	67	100	100
Max. gripping force*	kN	30	45	36	54	63	95	83	125	97	145	120	180	180
Max. speed	r.p.m.	6000		5200		4500		3600		2800		2000		1700
Weight (without top jaws)	kg	5.5		9.5		19		32		56		84		
Moment of inertia	kg·m ²	0.011		0.032		0.105		0.26		0.69		1.6		
Recommended actuating cylinders		SIN-S 85/100		SIN-S 100		SIN-S 100/125		SIN-S 125/150		SIN-S 125/150		SIN-S 150/175		

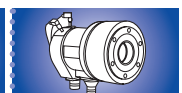
* For internal clamping reduce the draw pull by 30 %



Page 324



Page 326



Page 225

