

IL-D

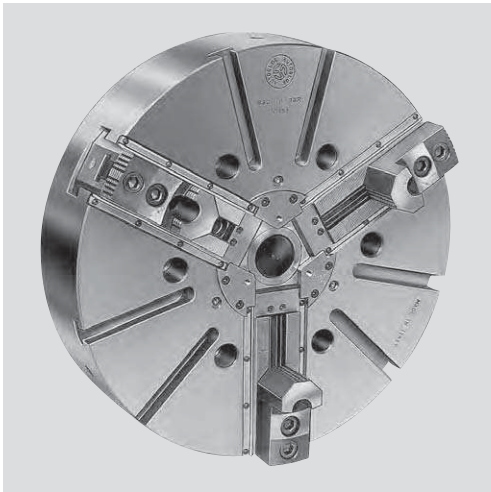
INCH serration

IL-C

Tongue & groove

High precision power chucks Ø 500 - 800 mm

- LONG STROKE
- closed center
- 3 and 4 jaws



Application/customer benefits

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

IL-D: Master jaws with INCH serration (3/32" x 90°)

IL-C: Tongue & groove master jaws

Technical features

- Extra long stroke per jaw
- Gripping force transmission via wedge hook
- Sealed against swarf and chips

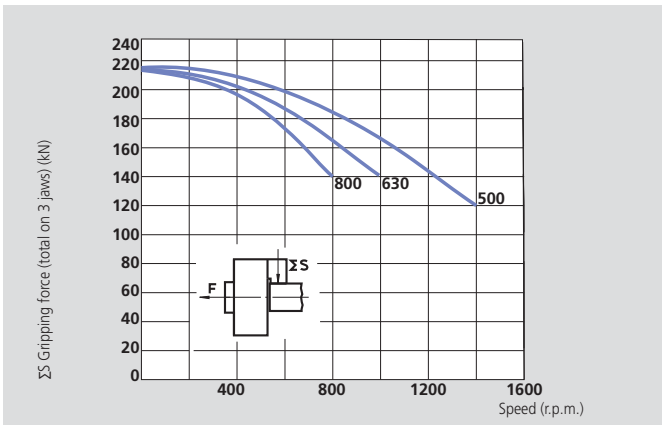
Standard equipment

- 3 or 4 jaws chuck
- 1 set T-nuts with bolts
- 1 set soft top jaws (not in IL-C)
- Mounting bolts
- Grease gun

Ordering example

- 3 jaw chuck IL-D 500/A15
- or
- 4 jaw chuck IL-C 630/Z380

Actual gripping force diagram



The data in the diagram 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:

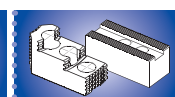
When using taller/heavier jaws and/or clamping on a bigger diameter reduce draw pull/rotating speed accordingly.

Technical data

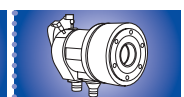
SMW-AUTOBLOK Type	IL-D 500 IL-C 500		IL-D 630 IL-C 630		IL-D 800 IL-C 800	
	3	4	3	4	3	4
Number of jaws						
Radial jaw stroke	mm	13	13	15	15	15
Axial piston stroke	mm	33	33	38	38	38
Max. draw pull	kN	120	120	120	120	120
Max. gripping force	kN	215	215	215	215	215
Max. speed	r.p.m.	1400	1100	1000	800	800
Mass (without top jaws)	kg	130	180	220	325	320
Moment of inertia	kg·m ²	4.2	5.9	10.8	16	23.8
Recommended actuating cylinders		SIN-S 150/175/200		SIN-S 150/175/200		SIN-S 150/175/200



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