

CL-C

TONGUE & GROOVE

CL-DINCH
SERRATION**High precision power chuck Ø 80 - 315 mm**

- Long stroke
- Closed center
- 2 jaws

Application/customer benefits

- Gripping or handling of irregular shaped pieces, for example on special machines
- Suitable for vertical machines

CL-C: Master jaws with TONGUE & GROOVE (Ø 80 - 160 mm)**CL-D:** Master jaws with INCH SERRATION (1/16" x 90°) (Ø 200 - 315 mm)**Technical features**

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

Standard equipment

2-jaw chuck

4 T-nuts with bolts (Ø 200 - 315 mm)

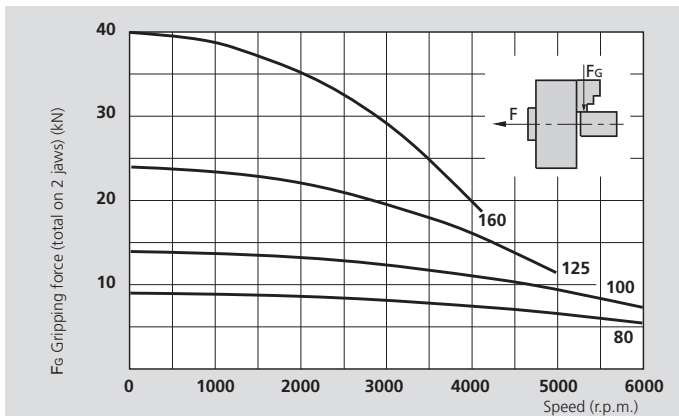
Without top jaws

Ordering example

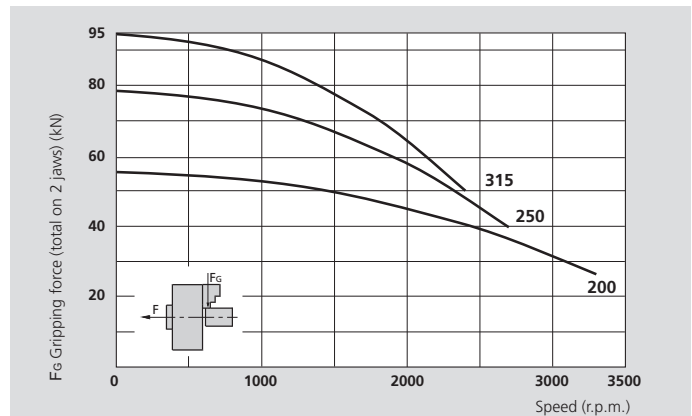
2-jaw chuck CL-D 250 / A8

or

2-jaw chuck CL-C 100 / Z92

Actual gripping force diagrams

The data in the diagrams refer to 2-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.

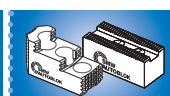
**△ Safety advice / danger of damage:**

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

Technical data

SMW-AUTOBLOK Type		CL-C 80	CL-C 100	CL-C 125	CL-C 160	CL-D 200	CL-D 250	CL-D 315
Number of jaws		2	2	2	2	2	2	2
Radial jaw stroke	mm	4.4	5.5	8	10	12	13	14
Axial piston stroke	mm	11	14	20	25	30	32	35
Max. draw pull*	kN	6	9	15	25	35	50	60
Max. gripping force*	kN	9	14	24	40	55	78	95
Max. speed	r.p.m.	6000	6000	5000	4100	3300	2700	2400
Weight (without top jaws)	kg	1.5	2.5	5	10	14	24	38
Moment of inertia	kg·m ²	0.0012	0.003	0.010	0.03	0.065	0.18	0.41
Id. No. CL-C/CL-D (Center mounting)		77907108	77907110	77907113	77907116	77900720	77900725	77900731

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

SMW-AUTOBLOK
466SMW-AUTOBLOK
468SMW-AUTOBLOK
327

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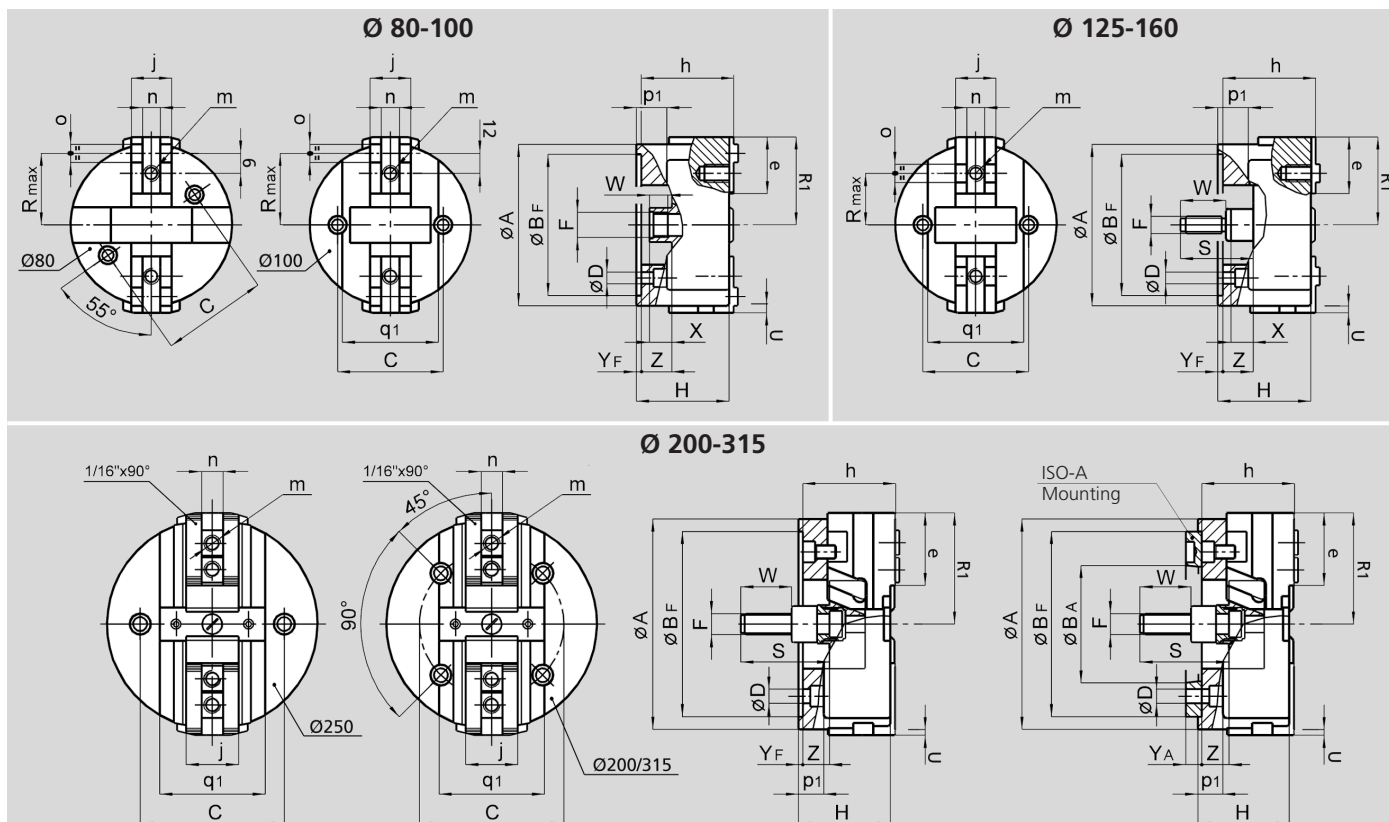
CL-C

TONGUE & GROOVE

CL-D

INCH
SERRATION

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

SMW-AUTOBLOK Type			CL-C 80		CL-C 100		CL-C 125		CL-C 160		CL-D 200		CL-D 250		CL-D 315	
			TONGUE & GROOVE										INCH SERRATION			
Mounting			Z74	-	Z92	-	Z115	-	Z140	A5	Z170	A6	Z220	A8	Z220	A8
	A	mm	80		100		125		160		200		250		315	
	BF H6	mm	74	-	92	-	115	-	140		170		220		220	
	BA	mm	-	-	-	-	-	-	-	82.563	-	106.375	-	139.719	-	139.719
	C	mm	60		75		92		104.8		133.4		171.4		171.4	
	D	mm	9	-	11	-	13.5	-	12	12	13.5	13.5	17	17	17	17
	F	mm	M16 x 1.5		M18 x 1.5		M16		M16		M20		M24		M24	
	HF/HA	mm	45	-	54	-	76	-	92	102	103	115	109	123	114	128
Chuck open	R1	mm	40		50		68		87		108		132		165	
	Rmax	mm	32.4		43		38		51		-		-		-	
	S	mm	-		-		49		109		97		105		105	
Jaw stroke	U	mm	4.4		5.5		8		10		12		13		14	
	W	mm	12		16		40		52		55		60		60	
	X	mm	14		11		6		22		8		10		10	
	YF/YA	mm	4	-	4	-	4	-	5	15	5	17	5	19	5	19
Min. / max.	Z	mm	11 / 0		14 / 0		26 / 6		30 / 5		30 / 0		32 / 0		37 / 2	
	e	mm	24.5		32		46		56		70		86		120	
	h	mm	45		54		76		91		104		110		115	
	j	mm	20		22		30		40		50		62		62	
	m	mm	M8		M10		M12		M16		M16		M20		M20	
	n h8	mm	8		8		14		18		21		25.5		25.5	
	o	mm	8		8		16		18		-		-		-	
	p1	mm	-		22		30		30		31		33		36	
	q1	mm	-		60		75		95		110		125		140	