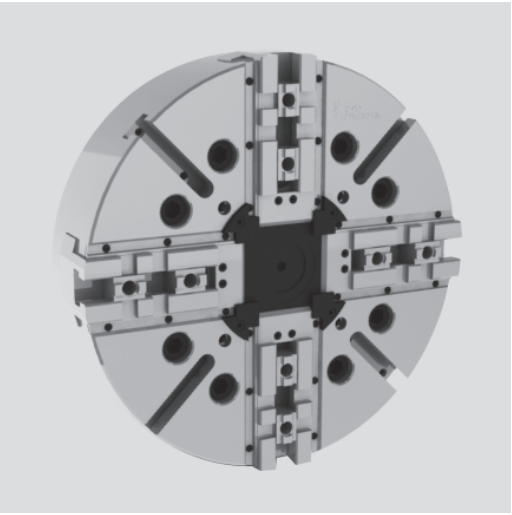
TPT-C

2+2 independent jaw movement
TONGUE & GROOVE

High precision 2+2 jaw power chuck with self-centering independent jaw movement Ø 500 - 800 mm

■ Closed center
■ Tongue & groove



Application/customer benefits

- Clamping of rectangular and square workpieces, self-centering in two axes

Technical features

- 2+2 jaw chuck with 2 independent self-centering jaw drives (two wedge drives)
- Jaw No. 1 + 3 (clamping jaws): power operated
- Jaw No. 2 + 4 (centering jaws): spring operated or optionally power operated*
- High quality cast iron body for lightweight and durability
- Protection from contamination with seals along the master jaw profiles

Standard equipment*

2+2 jaw chuck
1 set of T-nuts and bolts
1 set of soft top jaws
Mounting bolts

Ordering example

Power chuck TPT-C 500 2+2 Z380
or
Power chuck TPT-C 800 2+2 A15

A One wedge drive

- Operated by standard closed center cylinders.
- Jaws 2 and 4 are spring operated to center the component in one axis.
- Jaws 1 and 3 are power operated by the cylinder to center the component on the second axis and to apply the gripping force to drive the component.
- For external clamping only (on request internal clamping).
- See specific draw pull, gripping force and maximum speed in the technical data table below.

B Two independent wedge drives*

- Operated by independent double piston cylinders. Jaws 2 and 4 are power operated (using the small cylinder) to center the component in one axis.
- Jaws 1 and 3 are also power operated (using the large cylinder) to center the component on the second axis and to apply the gripping force to drive the component.
- Since both pair of jaws are power operated the chuck can reach higher speeds.
- See specific draw pull, gripping force and maximum speed in the technical data table below.

***Note:** **The chucks are always delivered as „one wedge drive" version: To use them as „two independent wedge drives" version, just remove the internal „spring assembly" according to instruction manual.**

Technical data

SMW-AUTOBLOK Type Number of jaws		TPT-C 500 2+2	TPT-C 630 2+2	TPT-C 800 2+2
Radial jaw stroke	mm	8.5	10	10
Wedge stroke	mm	32	38	38
Weight (plain back without top jaws)	kg	180	325	550
Moment of inertia	kg·m²	6	16	44
Id. No. TPT-C (center mounting)		77995007	77996307	77998007

A ONE wedge drive

SMW-AUTOBLOK Type Number of jaws		TPT-C 500 2+2	TPT-C 630 2+2	TPT-C 800 2+2
Max. draw pull** (clamping wedge, jaw 1 + 3)	kN	80	80	80
Max. gripping force jaw 1 + 3 (power operated)	kN	160	160	160
Max. centering force jaw 2 + 4 (spring operated)	kN	30	30	30
Max. speed	r.p.m.	800	630	500
Recommended actuating cylinders	**Type**	**SIN-S 175-200**	**SIN-S 175-200**	**SIN-S 175-200**

B TWO independent wedge drives

SMW-AUTOBLOK Type Number of jaws		TPT-C 500 2+2	TPT-C 630 2+2	TPT-C 800 2+2
Max. draw pull** (clamping wedge, jaw 1 + 3)	kN	67	67	67
Max. draw pull** (centering wedge, jaw 2 + 4)	kN	50	50	50
Max. gripping force jaw 1 + 3 (power operated)	kN	160	160	160
Max. centering force jaw 2 + 4 (power operated)	kN	120	120	120
Max. speed	r.p.m.	1200	850	700
Recommended actuating cylinders***	**Type**	**DCE 140 / 140**	**DCE 140 / 140**	**DCE 140 / 140**

** For internal clamping reduce the draw pull by 30%.
*** SMW-AUTOBLOK 340: Technical details of DCE cylinders see general catalog.

SMW-AUTOBLOK 472

SMW-AUTOBLOK 466

SMW-AUTOBLOK 327

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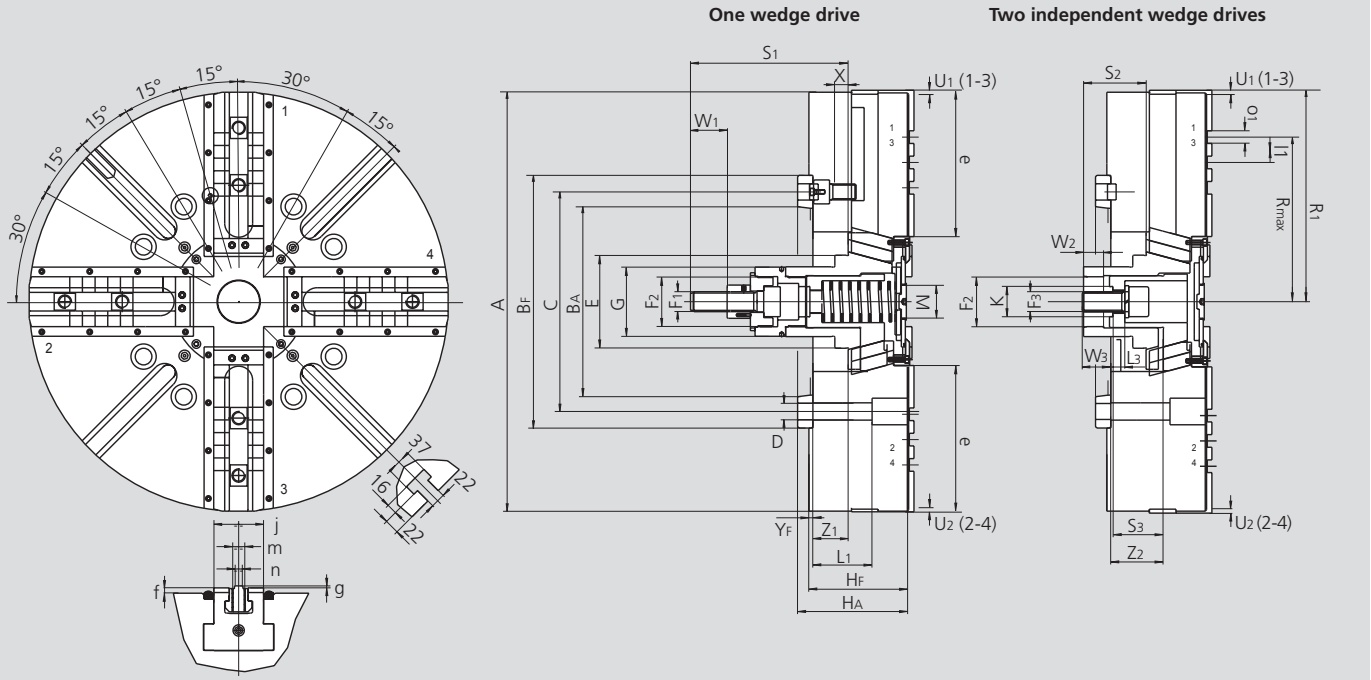
2+2 independent jaw movement
TONGUE & GROOVE



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

SMW-AUTOBLOK Type			TPT-C 500		TPT-C 630		TPT-C 800	
Mounting			Z380	A15	Z380	A15	Z380	A15
	A	mm	510		630		800	
	BF/BA H6	mm	380	285.775	380	285.775	380	285.775
	C	mm	330.2		330.2		330.2	
	D	mm	25		25		25	
	E	mm	140		140		140	
	F1	mm	M30		M30		M30	
	F2	mm	M75 x 2		M75 x 2		M75 x 2	
	F3	mm	M30		M30		M30	
	G	mm	104		104		104	
Chuck height	**HF/HA**	mm	130	147	150	167	150	167
	K	mm	45		45		45	
	L1	mm	89		89		89	
	L3	mm	18		18		18	
	M	mm	M52 x 1.5		M52 x 1.5		M52 x 1.5	
	R1	mm	263		318		405	
	Rmax	mm	209.5		247.5		349	
	S1	mm	237		237		237	
	S2	mm	94		94		94	
	S3	mm	76		76		76	
Jaw stroke (power 1 + 3)	**U1**	mm	8.5		10		10	
Jaw stroke (power / spring 2 + 4)	**U2**	mm	6.5		8		8	
	W1	mm	55		55		55	
	W2	mm	30		30		30	
	W3	mm	46		46		46	
	X	mm	20		20		20	
	YF/YA	mm	6 / 23		6 / 23		6 / 23	
Wedge stroke 1 max. /min.	**Z1**	mm	33 / 1		53 / 15		53 / 15	
Wedge stroke 2 max. / min.	**Z2**	mm	59 / 27		79 / 41		79 / 41	
	e	mm	165		220		307	
	f	mm	8		8		8	
	g	mm	3		3		3	
	j	mm	75		75		75	
	l1	mm	38.1		38.1		38.1	
	m	mm	20		20		20	
	n	mm	12.7		12.7		12.7	
	o1	mm	19.03		19.03		19.03	