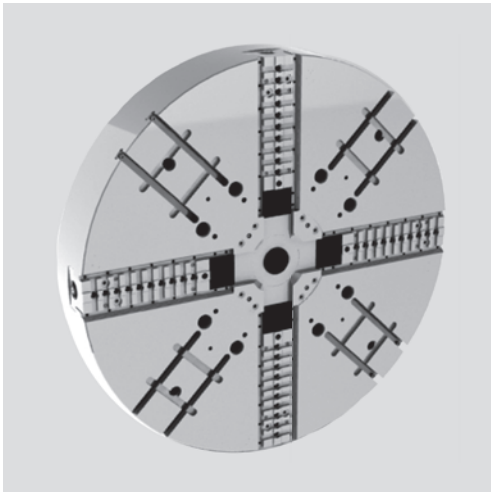


TPT-RC

2+2 independent jaw movement
Tongue & groove
Radial setting of jaws

High precision 2+2 jaw power chuck with self-centering independent jaw movement Ø 1000 - 2000 mm

- closed center
- tongue & groove



Application/customer benefits

- High versatility on large vertical lathes to clamp round, elliptical, irregular, square and rectangular work pieces, self centering in two axis
- External or internal clamping

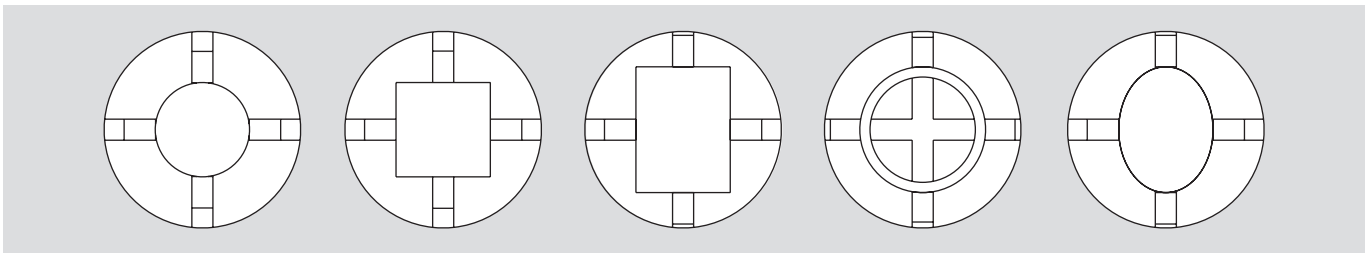
Technical features

- 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 (clamping jaws): power operated
- internal parts case hardened for high precision and long life
- with manual radial setting of jaws for the workpiece centering
- protection from contamination with seals along the master jaw profiles
- possibility to use jaw boxes for manual clamping mounted on the T-slots between the master jaws

Standard equipment

2+2 jaw chuck
1 set of soft top jaws
Mounting bolts

Using the double centering it is possible to easily clamp a wide variety of component shapes: round, square, ring, rectangular, oval and irregular



Two independent wedge drives

- Operated by independent double piston cylinders.
- Jaws 2 and 4 are power operated to center the component in one axis and to drive the component.
- Jaws 1 and 3 are power operated to center the component on the second axis and to drive the component.
- Since both pairs of jaws are power operated the chuck can reach high speeds.

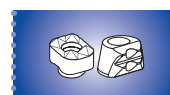
Technical data

SMW-AUTOBLOK Type		TPT-RC 1000	TPT-RC 1250	TPT-RC 1400	TPT-RC 1600	TPT-RC 2000
Number of jaws		2+2	2+2	2+2	2+2	2+2
Radial jaw stroke	mm	23	23	24	24	24
Wedge stroke	mm	57	57	60	60	60
Weight (plain back without top jaws)	kg	695	940	1460	1800	2760
Moment of inertia (m·r ²)	kg·m ²	86	180	355	565	1370

TWO independent wedge drives

Max. draw pull (wedge 1, jaw 1 + 3)	kN	100	100	120	120	120
Max. draw pull (wedge 2, jaw 2 + 4)	kN	100	100	120	120	120
Max. gripping force jaw 1 + 3 (power operated)	kN	180	180	210	210	210
Max. centering force jaw 2 + 4 (power operated)	kN	180	180	210	210	210
Max. speed	r.p.m.	550	450	400	400	280
Recommended actuating cylinders*	type	DCE 240/240	DCE 240/240	DCE 240/240	DCE 240/240	DCE 240/240

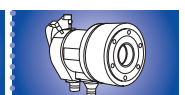
*technical details of DCE cylinders see page 230



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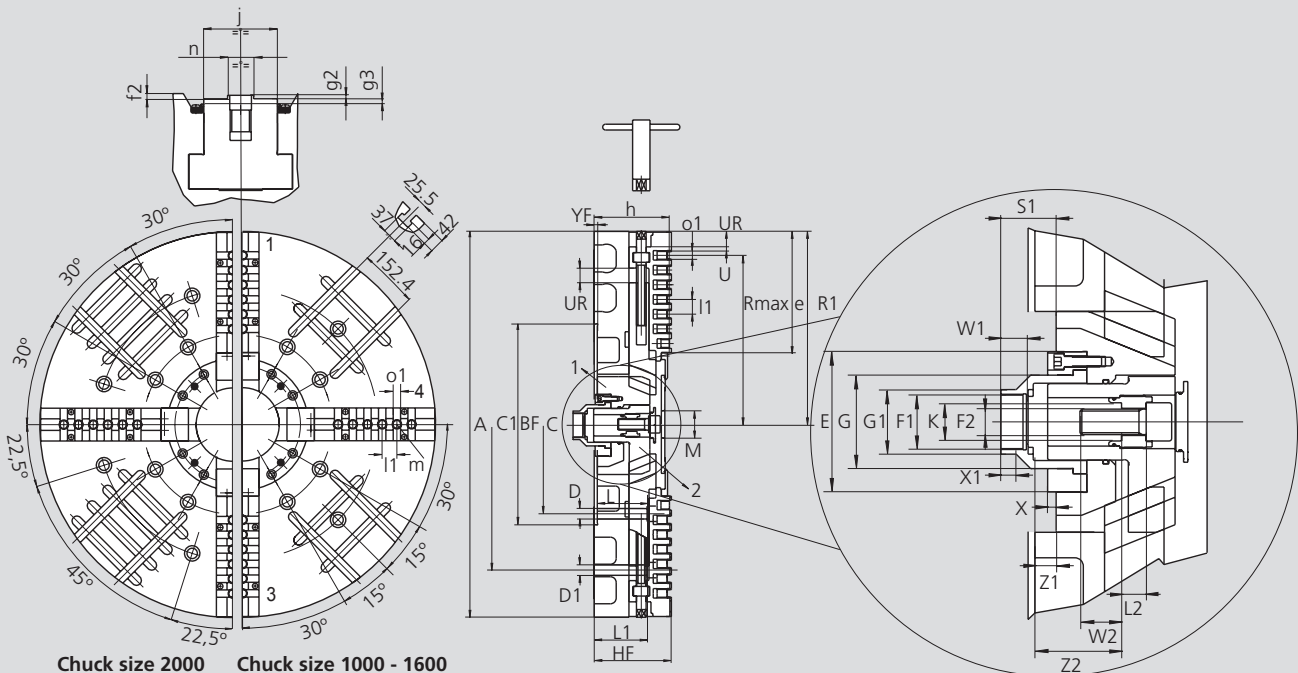
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High precision 2+2 jaw power chuck with self-centering independent jaw movement \varnothing 1000 - 2000 mm

- closed center
- tongue & groove

TPT-RC

2+2 independent jaw movement
Tongue & groove
Radial setting of jaws



Chuck size 2000 Chuck size 1000 - 1600

Subject to technical changes
For more detailed information please ask for customer drawing

SMW-AUTOBLOK Type			TPT-RC 1000		TPT-RC 1250		TPT-RC 1400		TPT-RC 1600		TPT-RC 2000	
Mounting			Z520	A20	Z520	A20	Z720	Z720	Z720	Z720	Z720	Z720
	A	mm	1005		1250		1400		1600		2000	
	Bf H6	mm	520		520		720		720		720	
	C	mm	463.6		463.6		647.6		647.6		647.6	
	C1	mm	700 (*)		700 (*)		1110		1110		1110	
	D	mm	27		27		33		33		33	
	D1	mm	27(*)		27(*)		27		27		27	
	E	mm	165		165		165		165		165	
	F1	mm	M75 x 2		M75 x 2		M75 x 2		M75 x 2		M75 x 2	
	F2	mm	M30		M30		M30		M30		M30	
	G	mm	110		110		110		110		110	
	G1	mm	86		86		86		86		86	
	Hf	mm	200		200		240		240		260	
	K	mm	45		45		45		45		45	
	L	mm	146		146		179		179		199	
	L1	mm	148 (°)		148 (°)		192		192		212	
	L2	mm	29		29		29		29		29	
	M	mm	70		70		70		70		70	
Chuck open	R1	mm	502		623		696		796		996	
	Rmax	mm	457		563		651		738		914	
	S1	mm	97		97		65		65		65	
Radial jaw stroke	U	mm	23		23		24		24		24	
Radial setting stroke	UR	mm	30		30		40		40		40	
	W1	mm	30		30		30		30		30	
	W2	mm	49		49		49		49		49	
	X	mm	31		31		0		0		0	
	X1	mm	23		23		23		23		23	
	Yf	mm	8		8		8		8		8	
Wedge stroke 1 max./min.	Z1	mm	57	0	57	0	60	0	60	0	60	0
Wedge stroke 2 max./min.	Z2	mm	98	41	98	41	137	77	137	77	157	77
	e	mm	295		416		446		539		739	
	f2	mm	8		8		8		8		8	
	g2	mm	4		4		4		4		4	
	g3	mm	7		7		7		7		7	
	h	mm	192		192		232		232		252	
	j	mm	85		85		110		110		110	
	l1	mm	38.1		38.1		38.1		38.1		38.1	
Number + size	m	mm	7 x M24		10 x M24		11 x M24		13 x M24		17 x M24	
	n	mm	30		30		30		30		30	
Number + size	o1	mm	6 x 19.03		9 x 19.03		10 x 19.03		12 x 19.03		16 x 19.03	

*Only on request