

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 workpieces, self centering in two axes
- 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 (centering 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

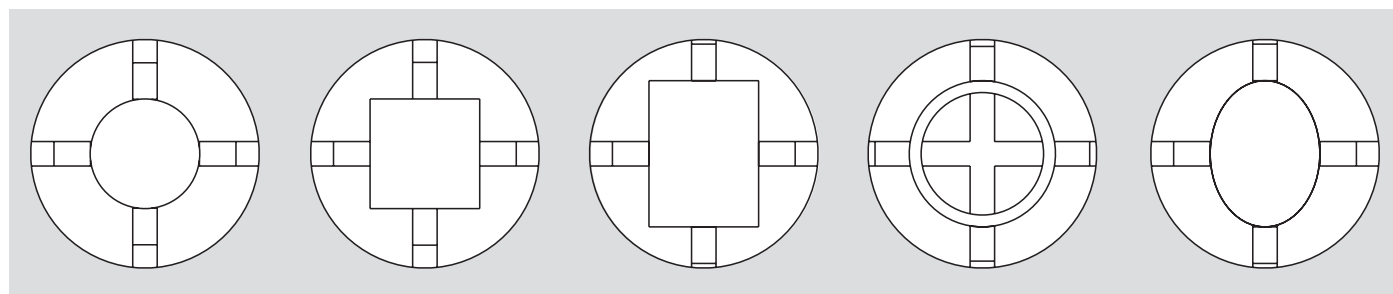
Standard equipment

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

Ordering example

Power chuck TPT-RC 2+2 1000 Z520

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.
- See specific draw pull, gripping force and maximum speed in the technical data table below.

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 + Radial setting stroke	mm	17 + 30	17 + 30	20 + 40	20 + 40	20 + 40
Wedge stroke	mm	30	30	40	40	40
Weight (plain back without top jaws)	kg	750	940	1460	1800	2760
Moment of inertia	kg·m ²	86	180	355	565	1370
Id. No. TPT-RC (center mounting)		77137239	77137249	77137255	77137263	77137279

TWO independent wedge drives

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
Max. draw pull* (wedge 1, jaw 1 + 3)	kN	100	100	130	130	130
Max. draw pull* (wedge 2, jaw 2 + 4)	kN	100	100	130	130	130
Max. gripping force jaw 1 + 3 (power operated)	kN	140	140	190	190	190
Max. centering force jaw 2 + 4 (power operated)	kN	140	140	190	190	190
Max. speed	r.p.m.	550	450	450	400	280
Recommended actuating cylinders**	Type	DCE 240 / 240	DCE 240 / 240	DCE 240 / 240	DCE 240 / 240	DCE 240 / 240

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

** SMW-AUTOBLOK 340: Technical details of DCE cylinders see general catalog.



SMW-AUTOBLOK
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SMW-AUTOBLOK
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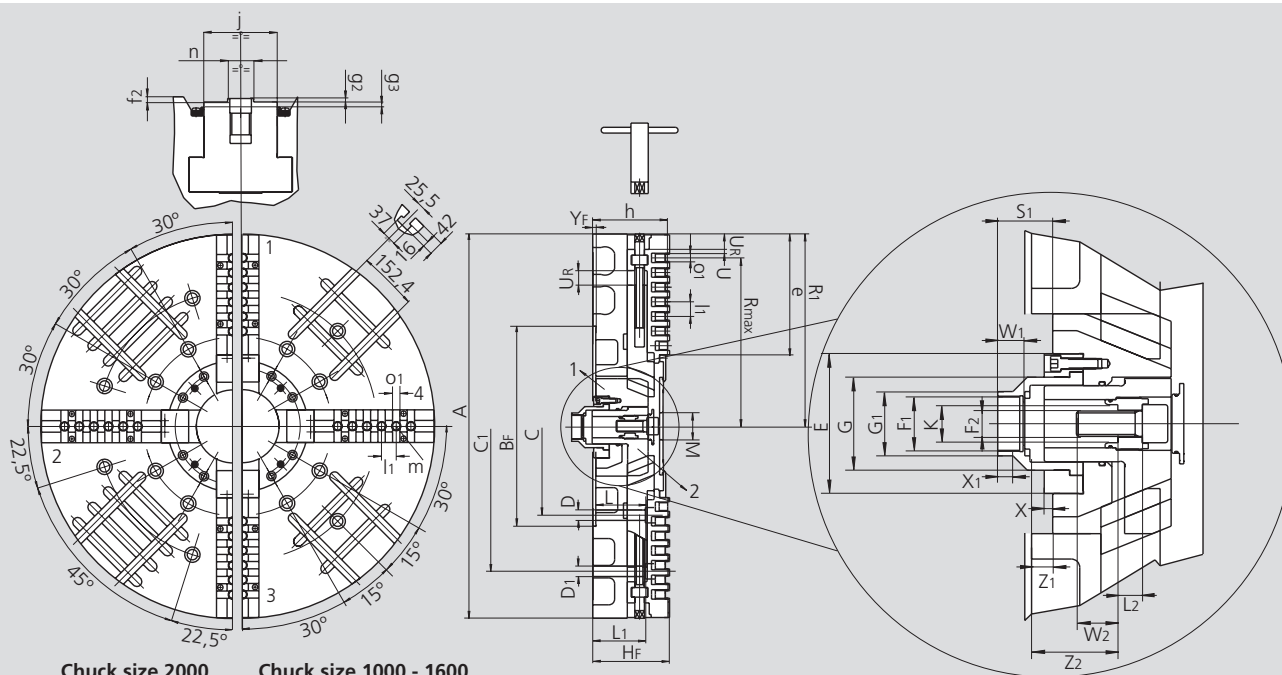
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- Closed center
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2+2 independent jaw movement
TONGUE & GROOVE
Radial setting of jaws



Chuck size 2000 Chuck size 1000 - 1600

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

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	
	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	180		180		164		164		164	
	F1	mm	M75 x 2		M75 x 2		M75 x 2		M75 x 2		M75 x 2	
	F2	mm	M24		M24		M24		M24		M24	
	G	mm	100		100		100		100		100	
	G1	mm	86		86		86		86		86	
	Hf	mm	200		200		240		240		260	
	K	mm	37		37		37		37		37	
	L	mm	145		145		183		183		205	
	L1	mm	145		145		181		181		205	
	L2	mm	31		31		31		31		31	
	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	100.5		100.5		95		95		95	
Radial jaw stroke	U	mm	17		17		20		20		20	
Radial setting stroke	Ur	mm	30		30		40		40		40	
	W1	mm	30		30		30		30		30	
	W2	mm	47		47		47		47		47	
	X	mm	5		5		0		0		0	
	X1	mm	27		27		27		27		27	
	Yf	mm	8		8		8		8		8	
Wedge stroke 1 max. / min.	Z1	mm	30	0	30	0	40	0	40	0	60	20
Wedge stroke 2 max. / min.	Z2	mm	116	85	116	85	143	113	143	113	162	122
	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	