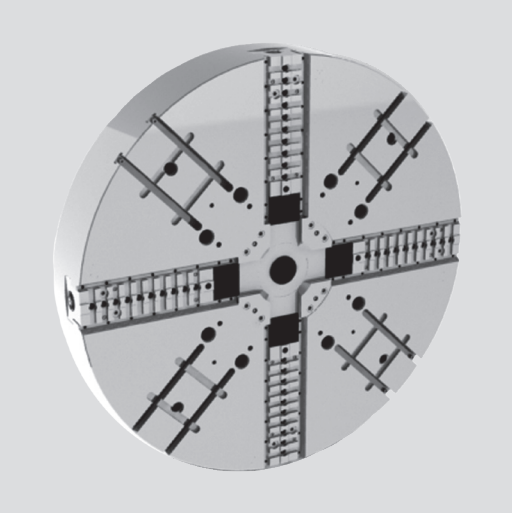
TPT-RC

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

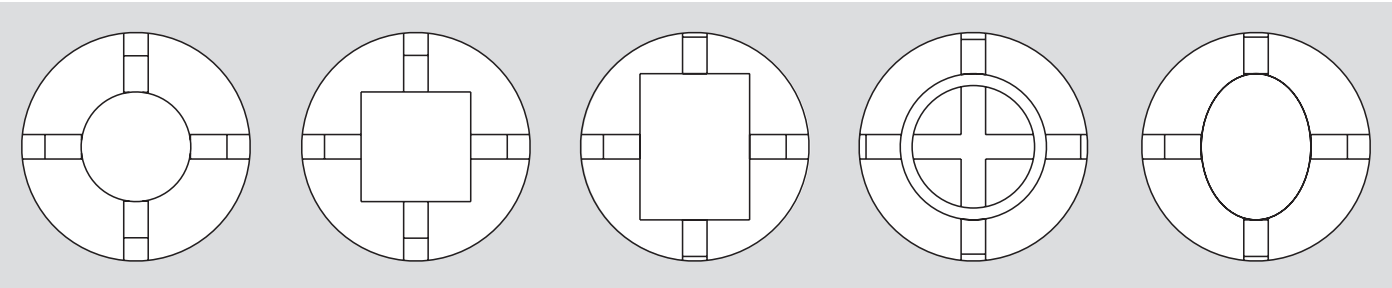
Standard equipment

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 variaty 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 Number of jaws		TPT-RC 1000 2+2	TPT-RC 1250 2+2	TPT-RC 1400 2+2	TPT-RC 1600 2+2	TPT-RC 2000 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·m²	86	180	355	565	1370
Id. No. TPT-RC (center mounting)		77137239	77137249	77137255	77137263	77137279

TWO independent wedge drives

SMW-AUTOBLOK Type Number of jaws		TPT-RC 1000 2+2	TPT-RC 1250 2+2	TPT-RC 1400 2+2	TPT-RC 1600 2+2	TPT-RC 2000 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 472


SMW-AUTOBLOK 466


SMW-AUTOBLOK 327

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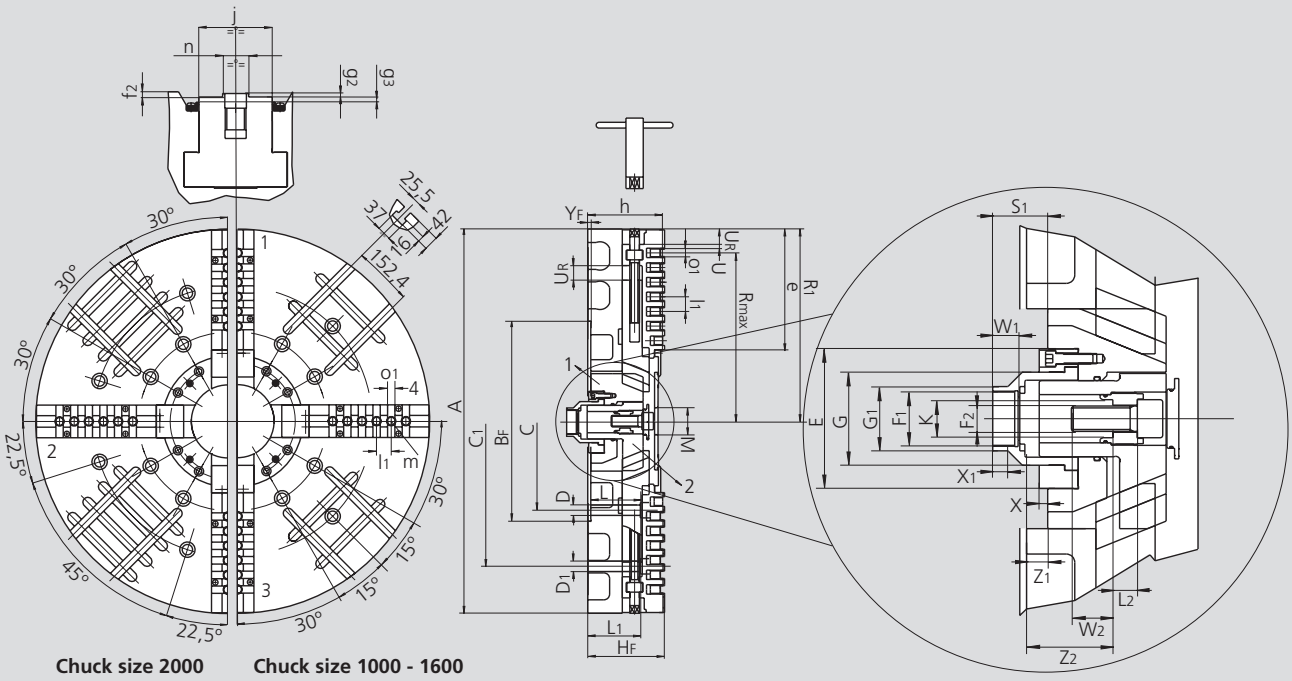
TONGUE & GROOVE
Radial setting of jaws



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