PBI-D

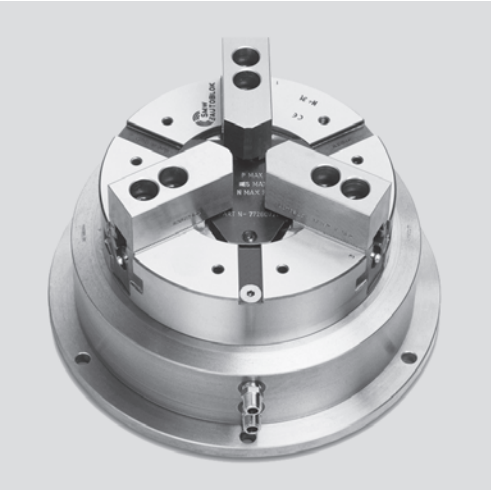
INCH serration
2 or 3 jaws

PBI-C

Tongue & groove
3 jaws

Pneumatic chuck for indexing tables Ø 165 - 315 mm

- built-in cylinder
- 2 and 3 jaws



Application/customer benefits

- Self centering rotating chuck with a pneumatic manifold used on indexing tables, not designed for constant rotation on turning machines

PBI-D: inch serrated master jaws (1/16" x 90°)
PBI-C: tongue & groove master jaws
PBI-M: metric serrated master jaws (1.5 mm x 60°) **on request**

Technical features

- 2/3 jaw chuck with a built-in pneumatic cylinder
- manifold for air supply
- Case hardened body to assure highest precision and long chuck life

Important! Due to the friction between fixed manifold and rotating central body, the indexing table must provide a higher rotation torque than the one shown in the schedule below

Standard equipment

Chuck unit
1 set of soft blank top jaws (PBI-C excluded)
1 set T-nuts with bolts (PBI-C excluded)
Grease gun

Ordering example

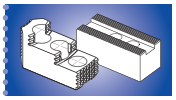
3 jaw chuck PBI-C 250
or
2 jaw chuck PBI-D 165

Technical data

SMW-AUTOBLOK Type		PBI-D 165 PBI-C 165	PBI-D 210 PBI-C 210	PBI-D 250 PBI-C 250	PBI-D 315 PBI-C 315
Radial jaw stroke	mm	3.6	4.4	5	6.3
Radial jaw stroke PBIL-D2 (2 jaws)*	mm	6.8	8.4	9.7	12
Piston area	cm^2	143	236	358	548
Max. operating pressure	bar	7	7	7	7
Gripping force at 6 bar	kN	24	42	64	98
Gripping force at 6 bar PBIL-D2 (2 jaws)*	kN	16	26	39	60
Torque Md	Nm	40	60	85	120
Weight (without top jaws)	kg	23	38	56	82

*The 2 jaw fixture is available with serrated master jaws (inch or metric) and long stroke only.

For further jaws and accessories please ask for our 150 pages special catalogue!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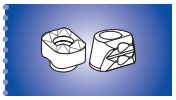
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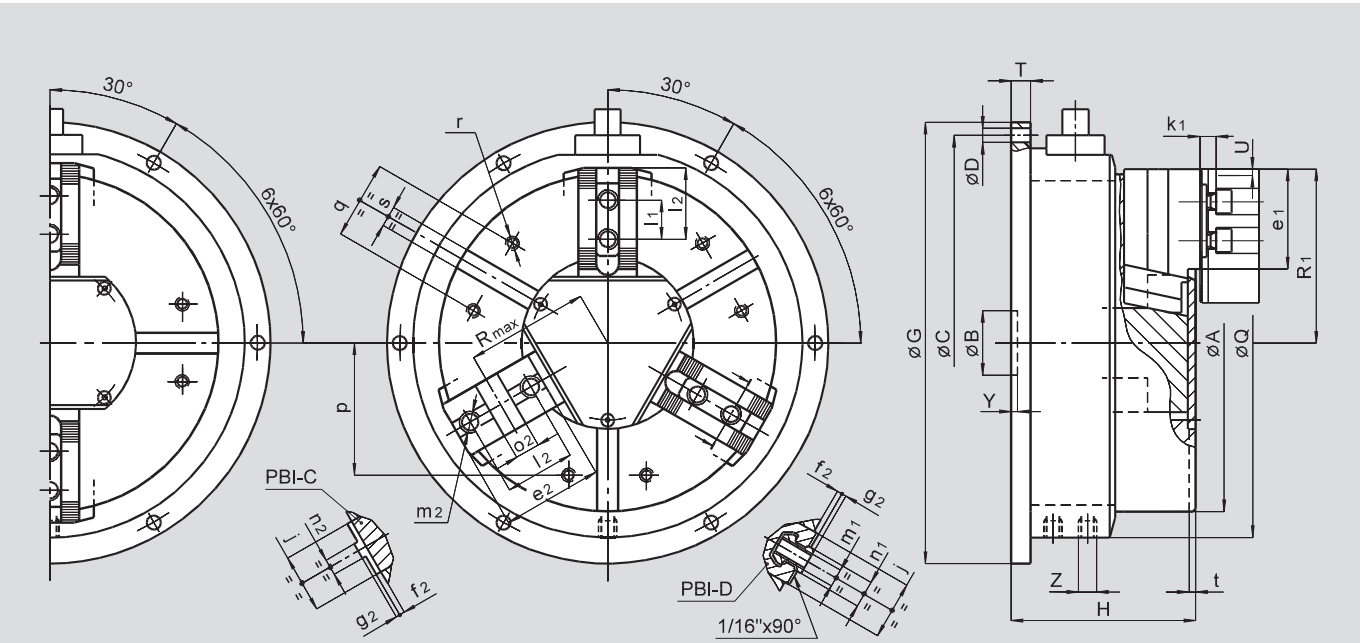
Pneumatic chuck for indexing tables Ø 165 - 315 mm

- built-in cylinder
- 2 and 3 jaws

PBI-D — INCH serration, 2 or 3 jaws

PBI-C — Tongue & groove, 3 jaws



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

Common dimensions

SMW-AUTOBLOK Type			PBI-D 165 PBI-C 165	PBI-D 210 PBI-C 210	PBI-D 250 PBI-C 250	PBI-D 315 PBI-C 315
	A	mm	170	215	260	315
	B	mm	30	35	50	50
Fixing holes circle	**C**	mm	225	280	320	390
Fixing holes diameter	**D**	mm	9	11	11	13
	G	mm	240	300	340	415
	H	mm	114	132	140	145
	Q	mm	210	260	300	365
	T	mm	10	12	14	14
Radial jaw stroke (3 jaws)	**U**	mm	3.6	4.4	5	6.3
Radial jaw stroke PBIL-D2 (2 jaws)	**U**	mm	6.8	8.4	9.7	12
	Y	mm	5	5	5	5
Pneumatic connections	**Z**	inch	R1/4"	R1/4"	R1/4"	R1/4"
	j	mm	30	36	45	45
	k1	mm	10	11	12	12
	p	mm	65	80	102	120
	q	mm	36	45	60	60
	r	mm	M8	M8	M10	M10
	s H12	mm	16	16	16	16
	t	mm	5	5	5	5

PBI-D and HBL-D2 fixtures dimensions

SMW-AUTOBLOK Type			PBI-D 165	PBI-D 210	PBI-D 250	PBI-D 315
	e1	mm	48	60	77	99
	f1	mm	4	3	4	4
	g1	mm	2.5	2.5	3.5	3.5
	l1	mm	16.5	23	30	30
T-nut position min./max.	**l3**	mm	24/40	33/50	43/62	43/84
	m1	mm	M10	M12	M16	M16
	n1 h8	mm	14	17	21	21
Chuck open (3 jaws)	**R1**	mm	89	110	134	162
Chuck open PBIL-D2 (2 jaws)	**R1**	mm	92	114	138.5	168

PBI-C fixtures dimensions (available only in 3 jaw chuck version)

SMW-AUTOBLOK Type			PBI-C 165	PBI-C 210	PBI-C 250	PBI-C 315
	e2	mm	54	71	77	99
	f2	mm	4	4	4	4
	g2	mm	3	3	3	3
	l2	mm	38	44.4	54	63.5
	m2	mm	M10	M12	M16	M16
	n2 h8	mm	7.94	7.94	12.70	12.70
	o2 H7	mm	12.68	12.68	19.03	19.03
Chuck open	**R1**	mm	89	110	134	162
Chuck open	**Rmax**	mm	62	77	94	109