PB-D

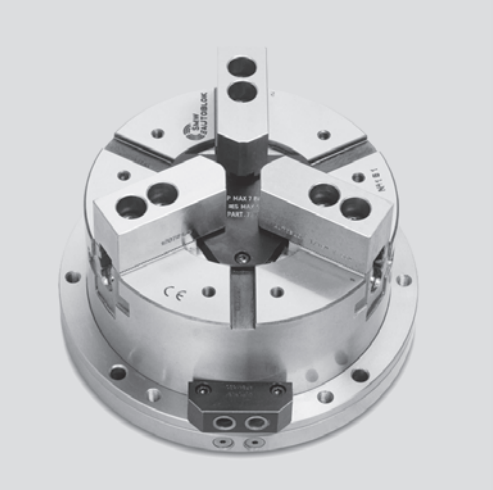
INCH serration
2 or 3 jaws

PB-C

Tongue & groove
3 jaws

Stationary chuck, pneumatic Ø 130 - 315 mm

- built-in cylinder
- 2 and 3 jaws



Application/customer benefits

• Self centering chuck used on milling machines/machining centers/special machines

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

Technical features

• Stationary chuck consisting of a 2/3 jaw chuck with a built-in pneumatic cylinder
• Compact design
• Case hardened body to assure highest precision and long chuck life
Caution! Filtered and oiled operating air required

Standard equipment

Clamping unit
1 set of soft blank top jaws (PB-C excluded)
Grease gun

Ordering example

3 jaw chuck fixture PB-C 250
or
2 jaw chuck fixture PBL-D2 165

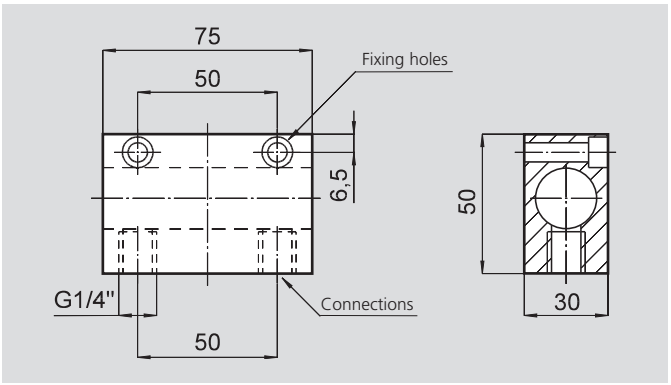
Technical data

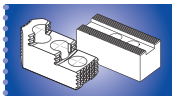
SMW-AUTOBLOK Type		PB-D 130 PB-C 130	PB-D 165 PB-C 165	PB-D 210 PB-C 210	PB-D 250 PB-C 250	PB-D 315 PB-C 315
Radial jaw stroke	mm	3.2	3.6	4.4	5	6.3
Radial jaw stroke PBL-D2 (2 jaws)*	mm	6	6.8	8.4	9.7	12
Piston area	cm^2	82	143	236	358	548
Max. operating pressure	bar	7	7	7	7	7
Gripping force at 6 bar	kN	14	24	42	64	98
Gripping force at 6 bar PBL-D2 (2 jaws)*	kN	9	16	26	39	60
Weight (without top jaws)	kg	9	17	28	42	63

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

Option for the PB-D and PB-C chuck
Safety unit that maintains a constant pressure inside the cylinder which maintains a steady clamping force even in case of a drop or lack of line pressure.

SAB Safety unit with double non-return valve

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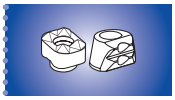
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Stationary chuck, pneumatic Ø 130 - 315 mm

- built-in cylinder
- 2 and 3 jaws

PB-D
INCH serration
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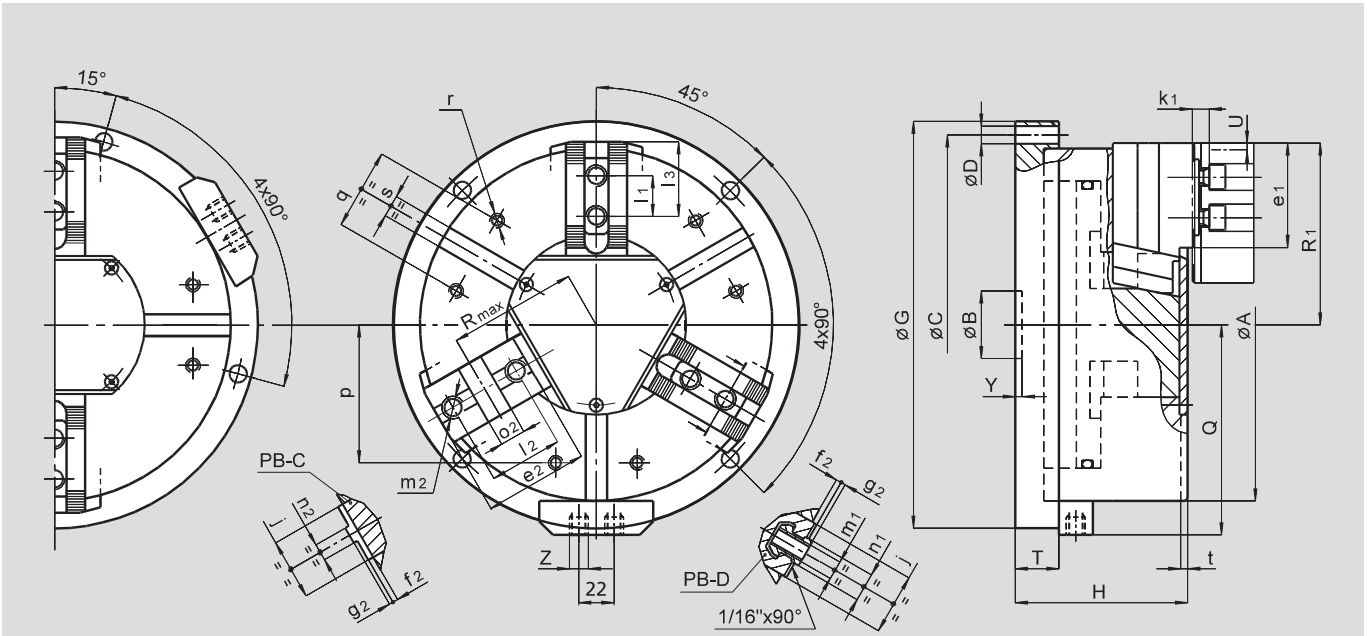
3 jaws



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

Common dimensions

SMW-AUTOBLOK Type			PB-D 130 PB-C 130	PB-D 165 PB-C 165	PB-D 210 PB-C 210	PB-D 250 PB-C 250	PB-D 315 PB-C 315
	A	mm	135	170	215	260	315
	B	mm	30	30	35	50	50
Fixing holes circle	**C**	mm	155	190	235	280	340
Fixing holes diameter	**D**	mm	9	11	11	13	13
	G	mm	175	210	255	300	360
	H	mm	89	100	117	127	141
	Q	mm	93	110	133	155	183
	T	mm	25	27	30	32	32
Radial jaw stroke (3 jaws)	**U**	mm	3.2	3.6	4.4	5	6.3
Radial jaw stroke PBL-D2 (2 jaws)	**U**	mm	6	6.8	8.4	9.7	12
	Y	mm	5	5	5	5	5
Pneumatic connections	**Z**	inch	R1/4"	R1/4"	R1/4"	R1/4"	R1/4"
	j	mm	26	30	36	45	45
	k1	mm	10	10	11	12	12
	p	mm	52	65	80	102	120
	q	mm	30	36	45	60	60
	r	mm	M6	M8	M8	M10	M10
	s H12	mm	12	16	16	16	16
	t	mm	5	5	5	5	5

PB-D and PBL-D2 fixtures dimensions

SMW-AUTOBLOK Type			PB-D 130	PB-D 165	PB-D 210	PB-D 250	PB-D 315
	e1	mm	37	48	60	77	99
	f1	mm	3	4	3	4	4
	g1	mm	2.5	2.5	2.5	3.5	3.5
	l1	mm	16	16.5	23	30	30
T-nut position min./max.	**l3**	mm	23/30	24/40	33/50	43/62	43/84
	m1	mm	M8	M10	M12	M16	M16
	n1 h8	mm	12	14	17	21	21
Chuck open (3 jaws)	**R1**	mm	71	89	110	134	162
Chuck open PBL-D2 (2 jaws)	**R1**	mm	74	92	114	138.5	168

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

SMW-AUTOBLOK Type			PB-C 130	PB-C 165	PB-C 210	PB-C 250	PB-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