

# TSBF-C

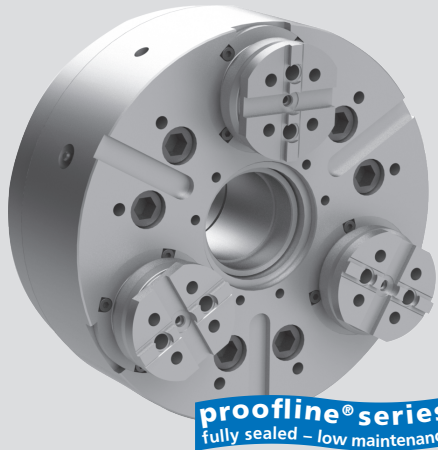
Self centering  
Floating jaws

# TSBR-C

Self centering  
Rigid jaws

## High precision pull-down chuck $\varnothing$ 220 - 330 mm

- Active pull-down
- Tongue & groove
- Large through-hole
- 3 jaws



### Application/customer benefits

- Clamping of workpieces with highest demand for **parallelism**
- **Highest productivity** with long maintenance intervals
- Constant gripping force and long lifetime ensure **constant quality of workpieces**
- Through-hole to insert long workpieces or for special clamping applications

**TSBF-C:** Floating base jaws to clamp raw and easy deformed workpieces (6-point-contact)

**TSBR-C:** Rigid base jaws for precise clamping on pre machined diameters

### Technical features

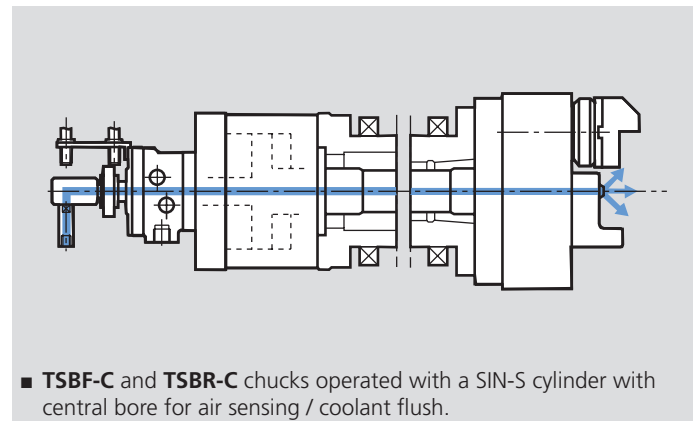
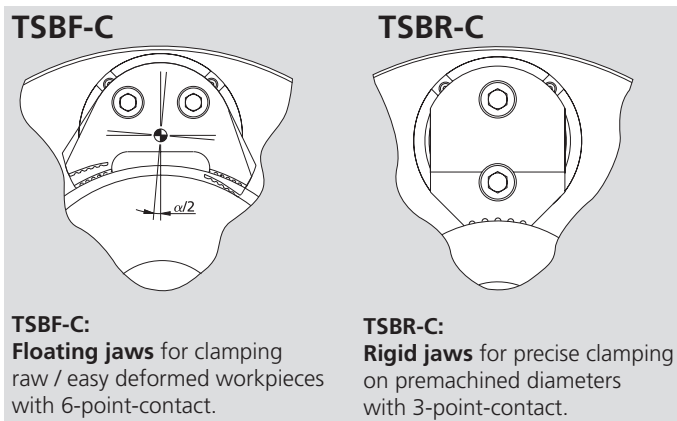
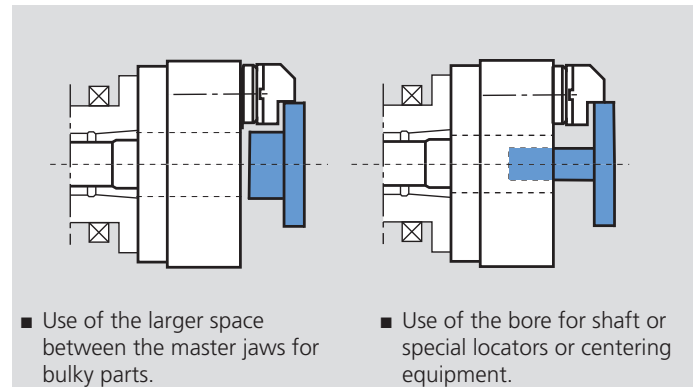
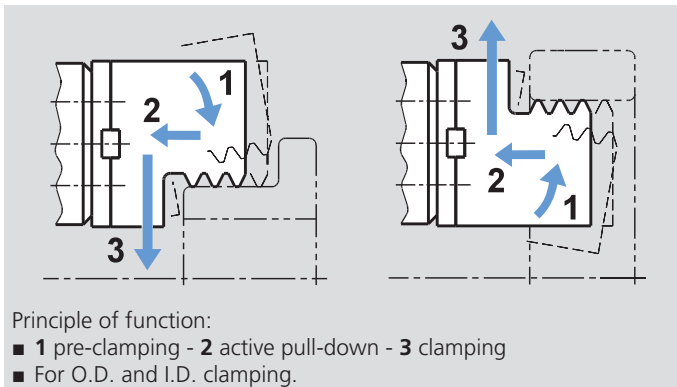
- Active pull-down
- Centrifugal force compensation
- TONGUE & GROOVE base jaws
- **proofline® chucks** = fully sealed - low maintenance
- Permanent grease lubrication
- Large through-hole

### Standard equipment

3-jaw chuck  
Mounting bolts

### Ordering example

3-jaw chuck TSBF-C 220 / A6  
or 3-jaw chuck TSBR-C 330 / Z300



## Technical data

SMW-AUTOBLOK Type		TSBF-C 220 TSBR-C 220	TSBF-C 260 TSBR-C 260	TSBF-C 330 TSBR-C 330
Angular jaw stroke U°	deg.	5.2°	5.2°	5°
Radial jaw stroke at distance h	mm	5.3	6.3	7
Pull down movement (standard)	mm	0.1	0.1	0.1
Axial piston stroke	mm	21	25	25
Max. draw pull**	kN	18	25	40
Max. gripping force at distance h**	kN	44	60	96
Max. speed*	r.p.m.	4250	3750	3000
Weight (without top jaws)	kg	25	40	67
Moment of inertia	kg·m²	0.165	0.34	0.97
Recommended actuating cylinders	Type	<b>SIN-S 85</b>	<b>SIN-S 100</b>	<b>SIN-S 125</b>
Id. No. TSBF-C (center mounting)		77197922	77197926	77197933
Id. No. TSBR-C (center mounting)		77198122	77198126	77198133

\* The above maximum speed is allowed with standard weight / height top jaws and applying the full draw pull only. For more information please contact SMW-AUTOBLOK.

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



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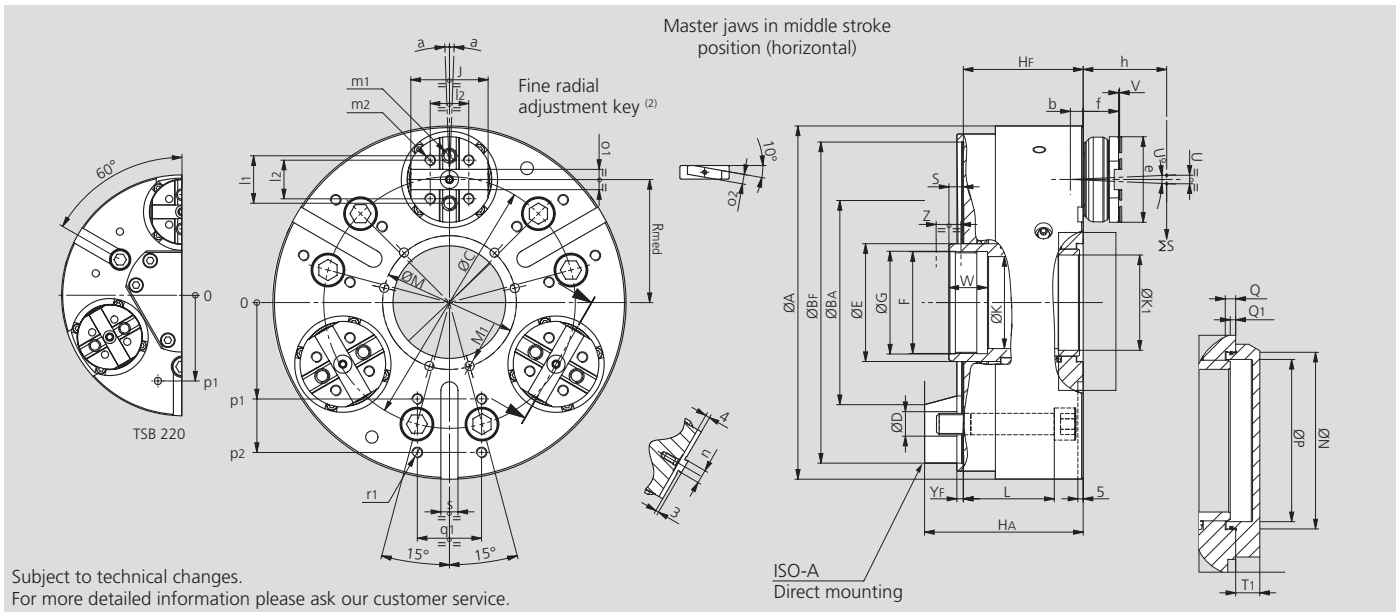
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Subject to technical changes.  
For more detailed information please ask our customer service.

SMW-AUTOBLOK Type			TSBF-C 220 TSBR-C 220		TSBF-C 260 TSBR-C 260		TSBF-C 330 TSBR-C 330	
Mounting			Z170	A6	Z220	A8	Z300	A11
	<b>A</b>	mm	225		265		330	
	<b>BF/BA H6</b>	mm	170	106.375	220	139.719	300	196.869
	<b>C</b>	mm	133.4		171.4		235	
	<b>D</b>	mm	13.5		17		21	
	<b>E</b>	mm	75		85		110	
	<b>F</b>	mm	M65 x 2		M75 x 2		M95 x 2	
	<b>G H8</b>	mm	66		76		96	
	<b>Hf/HA</b>	mm	86	103	100	119	112	133
Through-hole	<b>K</b>	mm	55		62		86	
	<b>K1</b>	mm	-		65		89	
	<b>L</b>	mm	66		80		85	
	<b>M</b>	mm	88		100		125	
Thread / depth	<b>M1</b>	mm	M8 / 20		M8 / 20		M10 / 20	
	<b>N H8</b>	mm	74		85		110	
	<b>P</b>	mm	65		75		100	
	<b>Q</b>	mm	6.5		6.5		6.5	
At middle stroke	<b>Q1</b>	mm	2		1		3	
At middle stroke	<b>Rmed</b>	mm	78		90		115	
At middle stroke	<b>S</b>	mm	15		13		14	
	<b>T1</b>	mm	13		16		15	
Radial stroke	<b>U°</b>	deg.	5.2°		5.2°		5°	
Radial stroke <sup>(1)</sup>	<b>U</b>	mm	5.3		6.3		7	
Pull-down s/d (option)	<b>V</b>	mm	0.1 (0.6)		0.1 (0.6)		0.1 (0.6)	
	<b>W</b>	mm	30		34		36	
Axial wedge stroke	<b>Z</b>	mm	21		25		25	
Only TSBF-C max.	<b>α</b>	deg.	±2°		±2°		±1.5°	
	<b>b</b>	mm	9		10		12	
	<b>e</b>	mm	60		75		80	
	<b>f</b>	mm	27		33		33	
Reference height	<b>h</b>	mm	50		60		70	
	<b>j</b>	mm	55		65		72	
	<b>l1</b>	mm	32		38		44.4	
	<b>l2</b>	mm	24		32		36	
Thread / depth	<b>m1</b>	mm	M10 / 16		M12 / 18		M12 / 18	
Thread / depth	<b>m2</b>	mm	M8 / 14		M10 / 14		M10 / 14	
	<b>n h8</b>	mm	7.94		7.94		12.7	
	<b>o1 H7</b>	mm	12.68		12.68		19.03	
	<b>o2 h7</b>	mm	9		9		12	
	<b>p1</b>	mm	80		102		90	
	<b>p2</b>	mm	-		-		140	
	<b>q1</b>	mm	45		60		60	
Thread / depth	<b>r1</b>	mm	M8 / 15		M10 / 20		M10 / 20	
	<b>s</b>	mm	16		16		16	
	<b>yF</b>	mm	5		5		5	

<sup>(1)</sup> Calculated at **h** distance from the chuck's face (where normally the clamping takes place).

<sup>(2)</sup> SMW-AUTOBLOK 192: General catalog.