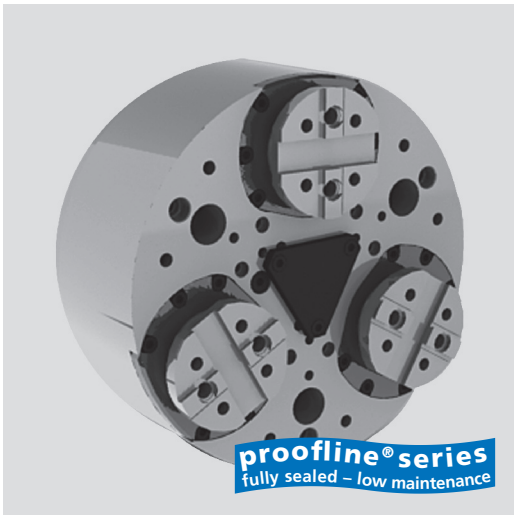
TX-C

Self centering
Rigid jaws

High precision pull-down chuck Ø 170 - 530 mm

- **Active pull-down**
- **Tongue & groove**
- **3 jaws**



Application/customer benefits

- Clamping of workpieces with highest demand for **parallelism**
- Highest repeatability
- **Highest productivity** with long maintenance intervals
- Constant grip force and long lifetime ensure **constant quality of workpieces**

Technical features

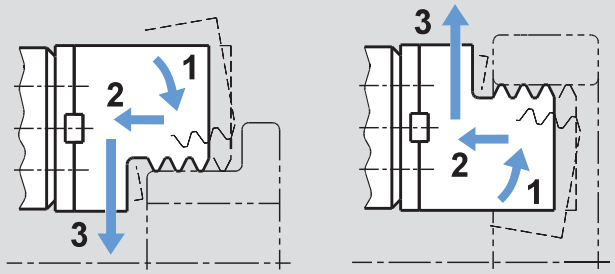
- 3-jaw design
- Active pull-down
- Centrifugal force compensation
- TONGUE & GROOVE base jaws
- Highest repeatability (similar to Diaphragm chucks)
- Central bore for coolant and / or air
- Permanent grase lubrication
- **proofline® chucks** = fully sealed - low maintenance

Standard equipment

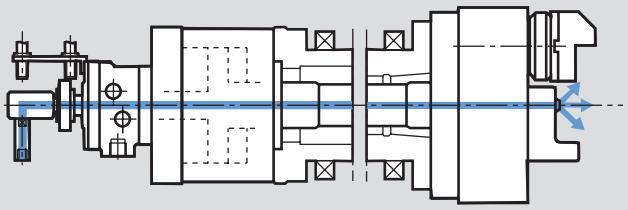
3-jaw chuck
Mounting bolts

Ordering example

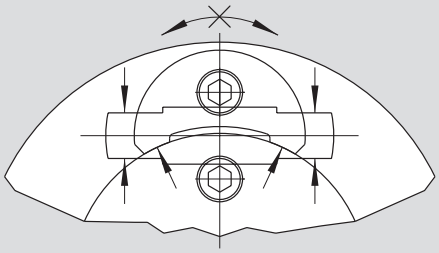
3-jaw chuck TX-C 210 / A6



Principle of function:
- **1** pre-clamping - **2** active pull-down - **3** clamping
- For O.D. and I.D. clamping.



- TX-C chuck operated with a SIN-S cylinder with central bore for air sensing and / or coolant flush.



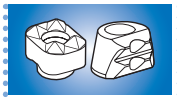
TX-C: High resistance to the radial torque, ideal for turning and milling application and guarantee of high precision, durability and constant process results.

Technical data

SMW-AUTOBLOK Type		TX-C 170	TX-C 210	TX-C 250	TX-C 315	TX-C 400	TX-C 530
Angular jaw stroke U°	deg.	5.2°	5.2°	4.9°	4.9°	4.7°	4.7°
Radial jaw stroke at distance **h**	mm	5.3	6.3	7	7	7.5	7.5
Pull down movement (standard)	mm	0.1	0.1	0.1	0.1	0.2	0.2
Axial piston stroke	mm	21	25	26	26	30	30
Max. draw pull**	kN	18	25	40	40	50	60
Max. gripping force at distance **h****	kN	44	60	96	96	120	150
Max. speed*	r.p.m.	5000	4500	3800	3000	2200	1800
Weight (plain back without top jaws)	kg	16	28	42	67	125	248
Moment of inertia	kg·m²	0.06	0.17	0.35	0.84	2.3	8.8
Recommended actuating cylinders	**Type**	**SIN-S 85**	**SIN-S 100**	**SIN-S 125**	**SIN-S 125**	**SIN-S 150**	**SIN-S 150**
Id. No. TX-C (center mounting)		77192317	77192321	77192325	77192331	77192340	77192353

* 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%.

on request: Tooling Standard Parts Catalog



SMW-AUTOBLOK 472

SMW-AUTOBLOK 466

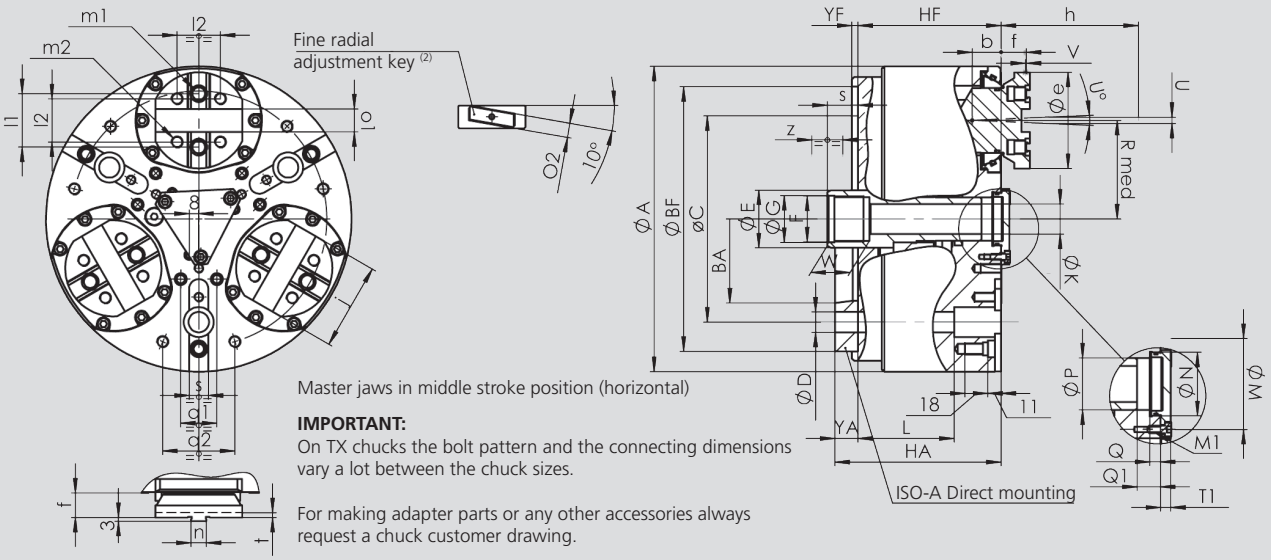
SMW-AUTOBLOK 327

High precision pull-down chuck Ø 170 - 530 mm

- Active pull-down
- Tongue & groove
- 3 jaws

TX-C

Self centering
Rigid jaws



Master jaws in middle stroke position (horizontal)

IMPORTANT:
On TX chucks the bolt pattern and the connecting dimensions vary a lot between the chuck sizes.

For making adapter parts or any other accessories always request a chuck customer drawing.

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

SMW-AUTOBLOK Type			TX-C 170		TX-C 210		TX-C 250		TX-C 315		TX-C 400		TX-C 530	
Mounting			**Z140**	**A5**	**Z170**	**A6**	**Z220**	**A8**	**Z220**	**A8**	**Z300**	**A11**	**Z380**	**A11**
	A	mm	175		212		254		315		390		535	
	BF/BA H6	mm	140	82.5	170	106.375	220	139.719	220	139.719	300	196.869	380	285.775
	C	mm	104.8		133.4		171.4		171.4		235		330.2	
	D	mm	11.5		13.5		17		17		21		25	
	E	mm	36		38		48		48		75		75	
	F	mm	M28 x 1.5		M32 x 1.5		M38 x 1.5		M38 x 1.5		M60 x 1.5		M60 x 1.5	
	G H8	mm	29		33		39		39		61		61	
	HF/HA	mm	94	109	112	129	119	138	119	138	144	165	149	172
Through-hole	**K**	mm	14		18		25		25		52		52	
	L	mm	68		82		80		80		94		97	
	M	mm	36		42		63		63		90		90	
Thread / depth	**M1**	mm	M5 / 12		M6 / 11		M6 / 14		M6 / 14		M8 / 17		M8 / 17	
	N H8	mm	28		34		44		44		75		75	
	P	mm	23		28		36		36		65		65	
	Q	mm	6		5.5		7.5		7.5		9		9	
At middle stroke	**Q1**	mm	13		14		16		16		21		21	
At middle stroke	**Rmed**	mm	55		64		82		107		130		190	
At middle stroke	**S**	mm	17		20		25		25		25		21	
	T1	mm	10		7		7		7		15		15	
Radial stroke	**U°**	deg.	5.2°		5.2°		4.9°		4.9°		4.7°		4.7°	
Radial stroke(1)	**U**	mm	5.3		6.3		7		7		7.5		7.5	
Pull-down s / d	**V**	mm	0.1		0.1		0.1		0.1		0.2		0.2	
	W	mm	25		25		30		30		25		25	
Axial piston stroke	**Z**	mm	21		25		26		26		30		30	
	b	mm	19		22		24		24		29		29	
	e	mm	60		75		80		80		105		105	
Reference height	**f**	mm	17		21		21		21		28		28	
	h	mm	40		48		58		58		63		63	
	j	mm	48		65.2		72.2		72.2		100.2		100.2	
	l1	mm	32		38		44.4		44.4		63.5		63.5	
	l2	mm	24		32		36		36		48		48	
Thread / depth	**m1**	mm	M10 / 13		M12 / 15		M12 / 15		M12 / 15		M16 / 18		M16 / 18	
Thread / depth	**m2**	mm	M8 / 12		M10 / 14		M10 / 14		M10 / 14		M12 / 14		M12 / 14	
	n h8	mm	7.94		7.94		12.7		12.7		12.7		12.7	
	o1 H7	mm	12.68		12.68		19.03		19.03		19.03		19.03	
	o2 h7	mm	9		9		12		12		12		12	
	s H9	mm	16		16		16		16		-		-	
	t	mm	4		4		4		4		7		7	
	YF	mm	5		5		5		5		6		6	
	q1	mm	-		-		-		-		-		-	
	q2	mm	-		-		-		-		-		-	

(1) Calculated at **h** distance from the chuck's face (where normally the clamping takes place).
(2) SMW-AUTOBLOK 192: General catalog.