

TSF-CP

Compensating
Floating jaws

Compensating pull-down chuck Ø 170 - 315 mm

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

Application/customer benefits

- Clamping of rectangular or irregular shaped shafts or clamping of shafts or chuck parts where the reference is not the O.D. but a center or a centering diameter
- A center point or a centering insert will center the workpieces and the jaws will clamp compensating and actively pull the workpiece down to the datum

Technical features

- 2-jaw design
- Active pull-down
- Compensating clamping
- Floating base jaws for 4 point contact
- Centrifugal force compensation
- TONGUE & GROOVE base jaws
- Permanent grease lubrication
- **proofline® chucks** = fully sealed - low maintenance

Standard equipment

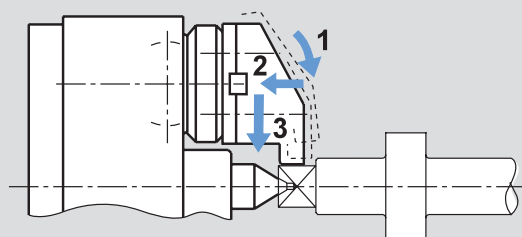
2-jaw chuck
Mounting bolt

Ordering example

2-jaw chuck TSF-CP 210 / A6



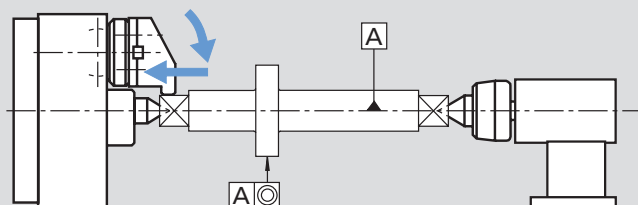
TSF-CP



Principle of function:

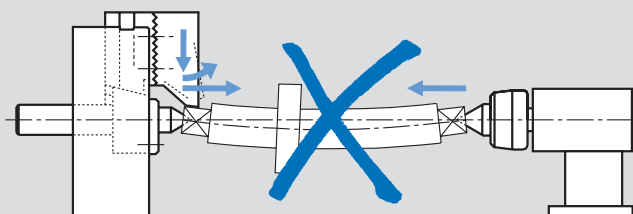
- 1 compensating pre-clamping - 2 active pull-down - 3 clamping

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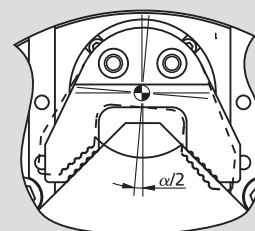
- The workpiece is actively pulled down to the center point. The tailstock just supplies the necessary force to support the workpiece. The result is an exact cylindrical and straight workpiece.

Non active pull down compensating chuck



- The workpiece is lifted by the jaws from the center point. When a higher tailstock force is applied for compensation, the workpiece will be bent.

TSF-CP



Floating jaws

Technical data

SMW-AUTOBLOK Type		TSF-CP 170	TSF-CP 210	TSF-CP 250	TSF-CP 315
Angular jaw stroke U°	deg.	5.2°	5.2°	4.9°	4.9°
Radial jaw stroke at distance h	mm	5.3	6.3	7	7
Pull down movement (standard)	mm	0.1	0.1	0.1	0.1
Axial piston stroke	mm	21	25	25	25
Compensation (on the dia.) at distance h	mm	±1.5	±1.5	±2.5	±2.5
Max. draw pull**	kN	12	17	27	27
Max. gripping force at distance h**	kN	30	40	64	64
Max. speed*	r.p.m.	5000	4500	3800	3000
Weight (plain back without top jaws)	kg	15	27	41	66
Moment of inertia	kg·m²	0.06	0.16	0.34	0.83
Recommended actuating cylinders	Type	SIN-S 70	SIN-S 85	SIN-S 100	SIN-S 100
Id. No. TSF-CP (center mounting)		77190917	77190921	77190925	77190931

* 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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