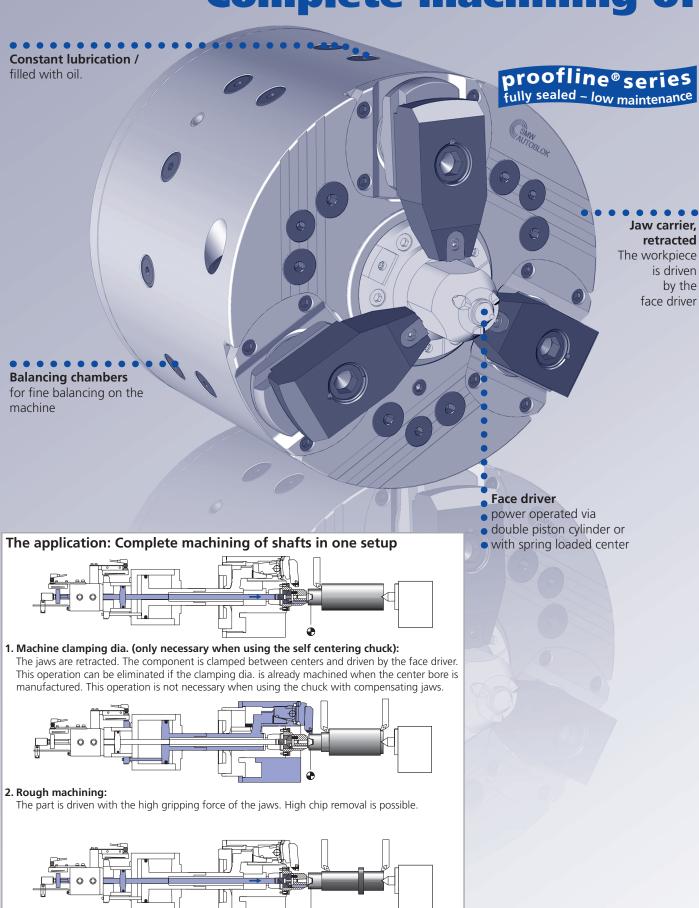
Shaft chuck Complete machining of

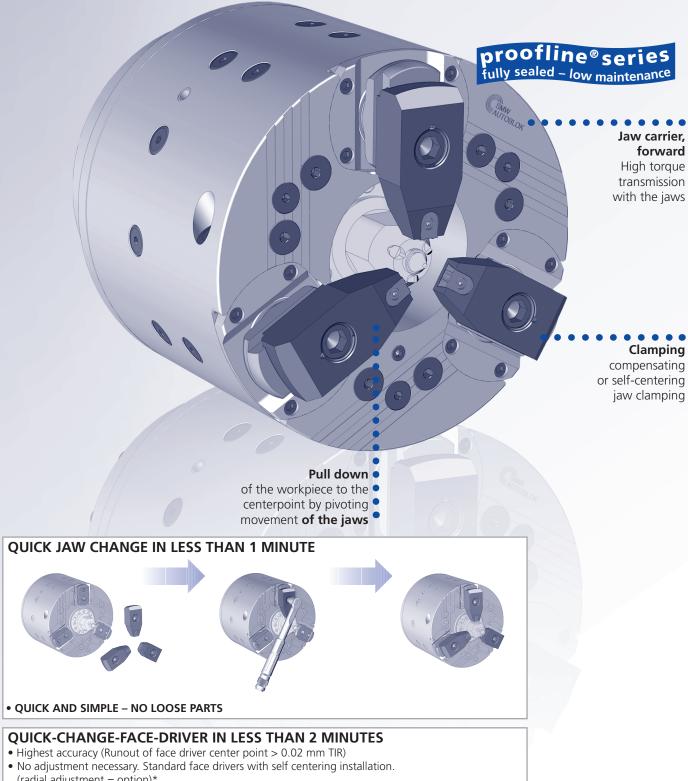


The chuck body is retracted. The part is clamped between centers and driven by the face driver.

The complete outline can be machined with perfect concentricity.

3. Finish machining:

with face driver shafts in one setup W 215 • W 260 • W 325 • W 460



(radial adjustment = option)*



^{*} A radial fine adjustable face driver version for higher accurancy is available on request.

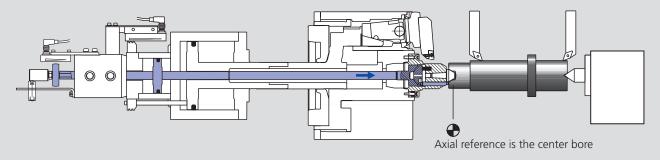


Shaft chuck with retractable jaw carrier **Face driver**

Face driver with center point fixed or spring-loaded

Type 1

Shaft chuck with face driver with fixed center **ZHVD-SZ** or **DCN** double piston cylinder



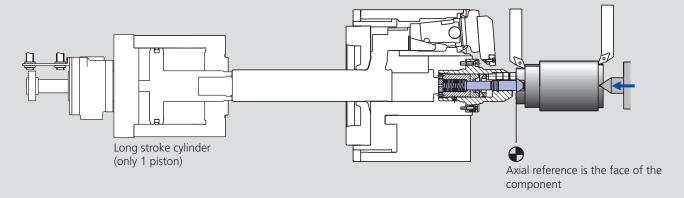
Power operated face driver with fixed center type SNF

(The design of the face driver is made according to the component)

- The axial reference is the center bore of the component.
- Fixed center guarantees highest concentricity.
- The driving pins are actuated via piston No. 2 of the double piston cylinder ZHVD-SZ. The driving pins penetrate into the face of the component (Piston No. 1 is used for chuck actuation).
- Clamped / unclamped position of the face driver is monitored by proximity switches / LPS.
- Highest accuracy no adjustment necessary!

Type 2

Shaft chuck with face driver with spring-loaded center SIN-L long stroke cylinder



Face driver with spring-loaded center type FSB (The design of the face driver is made according to the component)

- The axial reference is the face of the component.
- The component is pushed against the driving pins and the spring-loaded center by the tailstock thrust. The driving pins penetrate into the face of the component.
- A special built-in locking mechanism holds the spring-loaded center and holds the component in its axial position.
- Highest accuracy no adjustment necessary!

Shaft chuck with retractable jaw carrier Face driver

Lubrication / Applications

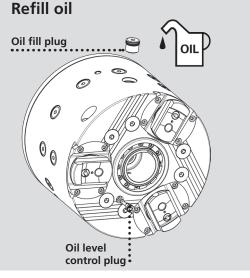
Low maintenance - low wear by oil bath lubrication

Oil to be changed annually Regular oil level check

Oil: CGLP ISO VG 68



Chuck size	W-215	W-260	W-325	W-460
	liters	liters	liters	liters
Oil quantity horizontal mounting	0.25	0.50	1.00	1.50
Oil quantity vertical mounting	0.50	1.00	1.70	3.00



Applications

Shaft

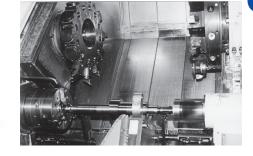
Turning operation of:

- Concentric dia.
- Faces
- Outlines

Milling operation of:

- Lubrication channels
- Slots
- Serration
- Outlines





Crankshaft

Turning operation of:

- Bearing dia.
- Crank sides
- Crank O.D.

Milling operation of:

- Cranks
- Reference slots
- Serration
- Lubrication channels



Camshaft

Turning operation of:

- Bearing dia.
- Cam faces

Milling operation of:

- Cam profile
- Slots
- Serration
- Lubrication channels

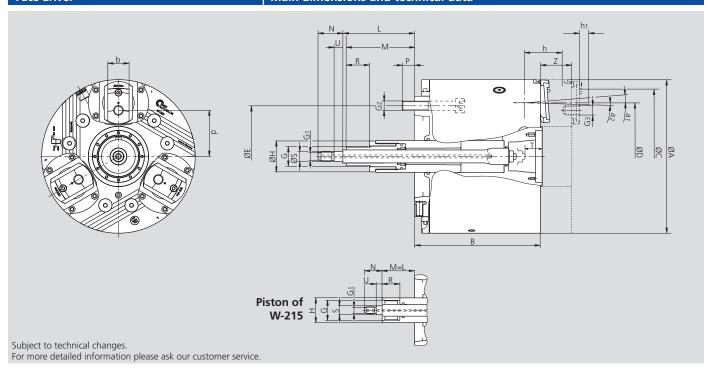




Shaft chuck Ø 215 - 460 mm

Shaft chuck with retractable jaw carrier **Face driver**

Main dimensions and technical data



SMW-AUTOBLOK Type		W-215		W-260		W-325		W-460	
Mounting		A6	A8	A6	A8	A8	A11	A11	A15
Chuck outside dia.	Α	215		260		325		460	
Chuck height	В	176	211	238	213	285	251	344	309
In clamping position (radius)	С	R9	92	R115		R143		R205	
Max. clamping dia.	D	14	15	175		220		33	15
	E	133.4	171.4	133.4	171.4	171.4	235	235	330.2
	G	M34		M33 x 1.5		M45 x 1.5		M85 x 2	
	G ₁	M			16	M		M55	
	G2	M12	M16	M12	M16	M16	M20	M20	M24
	G3	M12			x 24	M20		M24	
	Н	4	_	54		70		110	
Push rod face driver min. / max.	L	55 / 40	20/5		121.5 / 106.5		140 / 125	119 / 104	
Min. / max.	M	55 / -4	20 / -39		121.5 / 51.5				
	N	3	_		2	4		4.	
	P	15.5	22	18	21	24	26	26	34
	R	3			5	5		50	
Duck and man about discounting	S _{f6}	1 2	_		5.5 !9	16		56 6	
Push rod pos. check dimension	Ü	1			5	1		1	
Axial movement / jaw carrier	Z	4	_		i3	5		6	
Piston stroke for jaw clamping	Z1		5		7	2		32	
Opening / residual stroke angle	a1/a2	4.5°			/ / 1.3°	4.5°		5° /	
Opening / residual stroke at distance h1	h1	4.5 / 1.5		4.5 / 1.3		5.7 / 1.9		7.7 / 3.1	
Max. jaw stroke at distance h*	mm	5.3		5.8		7.6		10.8	
Max. compensating / jaw Type C	mm	± (1.0	±		± 3	
	b	3			16	4		5	
	d	6	5	7	'8	96	5.5	150	0.5
Reference height	h	50		57		72		88	
Oil volume horizontal use	1	0.25		0.50		0.75		1.50	
Oil volume vertical use	- 1	0.50		1.00		1.50		3.00	
Max. speed	r.p.m.	5000		4000		3200		1800	
Max. draw pull	kN	30		55		75		100	
Max. grip force at reference distance h*	kN	60		110		150		200	
Moment of inertia	kg·m²	0.236	0.271	0.639	0.606	1.872	1.734	9.35	8.91
Weight (without top jaws)	kg	40	45	75	70	140	127	364	336

^{*} When exceeding distance h gripping force/speed must be reduced accordingly.



Shaft chuck Ø 215 - 460 mm

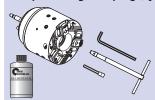


Ordering review

Shaft chuck with retractable jaw carrier Face driver

Supply range:

Compensating clamping (Type C) chuck with mounting bolts and mounting keys, oil*



Type C Spindle mounting	W-215	W-260	W-325	W-460
A6	069930	069527		
A8	069932	069444	069525	
A11		069815	068981	069602
A15				069600

Supply range:

Self centering clamping (Type S) chuck with mounting bolts and mounting keys, oil*



Type S Spindle mounting	W-215	W-260	W-325	W-460
A6	069934	069542		
A8	069936	069546	069552	
A11		069817	069554	069606
A15				069604

* Attention:

The W-chucks in this ordering review are for the use of power operated face drivers only (Type 1).

To use face drivers with spring loaded center, a different chuck (Type 2) has to be used.

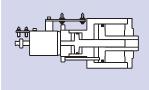
Please ask our engineers for the corresponding Id. No. and the matching cylinders.

Power operated face drivers and face drivers with spring loaded center **cannot** be used alternating on the same chuck.

Attention:

Shaft chuck for vertical machines on request

Actuating cylinder



Type Double piston cylinder	W-215	W-260	W-325	W-460
ZHVD-SZ	68-17	110-25	110-25 / 240-40	240-40
ld. No.	044429	045297	045297 / 045298	045298
DCN			170-40 / 95-50	
ld. No.			33705215	



Oil for permanent oil bath lubrication				
Oil specification	CGLP ISO VG 68			
Contents	1 liter/1.05 quart (U.S.)			
ld. No. 197859				

