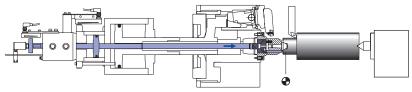
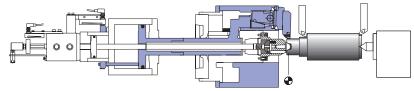


The application: Complete machining of shafts in one setup



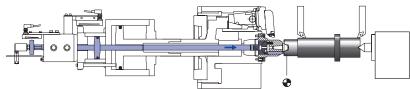
1. Machine clamping dia. (only necessary when using the self centering chuck):

The jaws are retracted. The component is clamped between centers and driven by the face driver. This operation can be eliminated if the clamping dia. is already machined when the center bore is manufactured. This operation is not necessary when using the chuck with compensating jaws.



2. Rough machining:

The part is driven with the high gripping force of the jaws. High chip removal is possible.

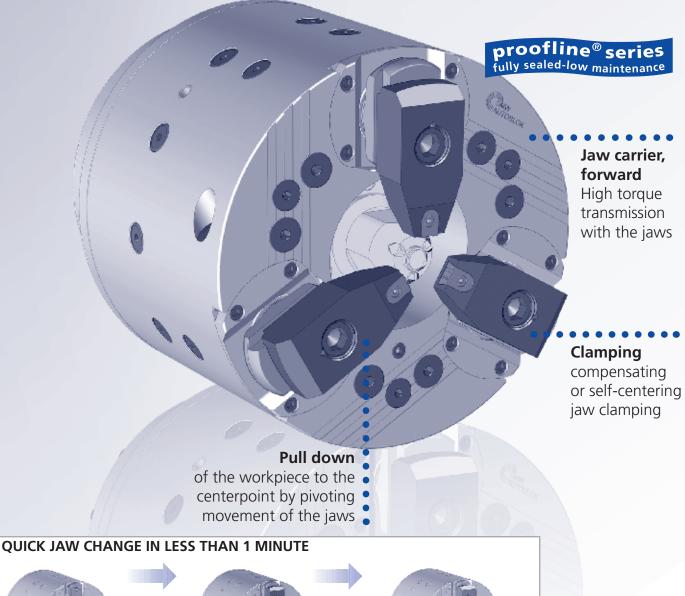


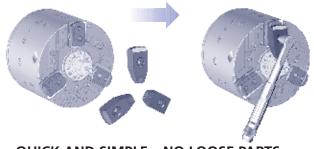
3. Finish machining:

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.

SHAFTS IN ONE SETUP

W 215 • W 260 • W 325 • W 460







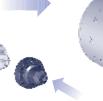


QUICK-CHANGE-FACE-DRIVER IN LESS THAN 2 MINUTES

- Highest accuracy (Runout of face driver center point > 0,02 mm TIR)
- No adjustment necessary. Standard face drivers with self centering installation. (radial adjustment = option)*







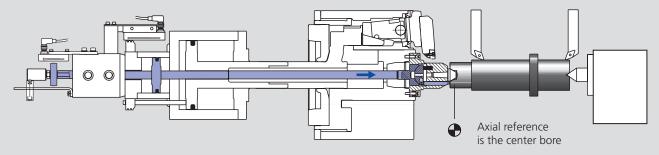


QUICK AND SIMPLE – NO LOOSE PARTS

Shaft chuck with retractable jaw carrier Face driver

Face driver with centerpoint fix or spring loaded

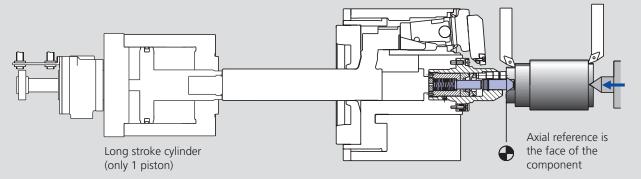
Type 1 Shaft chuck with face driver with fixed center ZHVD-SZ or DCN double piston cylinder



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

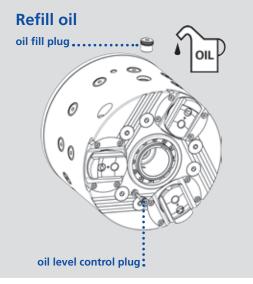
Low maintenance - low wear by oil bath lubrication

Oil to be changed annually Regular oil level check

proofline® series fully sealed-low maintenance

Oil: CGLP ISO VG 68

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



Applications

Shaft

Turning operation of: Milling operation of:

- Concentric dia.
- Faces
- Outlines
- Lubrication channels
- Slots
- Serration
- Outlines

Crankshaft

Turning operation of: Milling operation of:

- Bearing dia.
- Crank sides Crank O.D.
- Cranks
- Reference slots
- Serration
- Lubrication channels

Bearing dia.

Camshaft

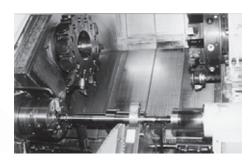
- Cam faces
- Cam profile
- Slots

Turning operation of: Milling operation of:

- Serration
- Lubrication channels









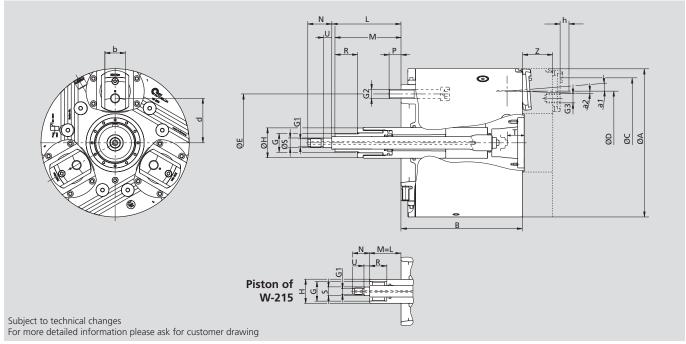


W

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			A06	A06	A08	A08	A11	A11	A15
Chuck outside dia.		Α	215	2	60	32	25	46	50
Chuck height		В	176	238	213	285	251	344	309
In clamping position (radius)		С	R92	R1	115	R1	43	R2	05
Max. clamping dia.		D	145	1	75	220		33	35
		E	133.4	133.4	171.4	171.4	235	235	330.2
		G	M34 x 1.5	M33	x 1.5	M45	x 1.5	M85	5 x 2
		G1	M12	M	116	М	16	M55	5 x 2
		G2	M12	M12	M16	M16	M20	M20	M24
		G3	M12 x 20	M16	5 x 24	M20	x 30	M24 x 45	
		Н	42	5	54	70		110	
Push rod face driver	min.max.	L	55/40	96.5/51.5	121.5/106.5	106/91	140/125	119/104	154/139
	min.max.	M	55/-4	96.5/26.5	121.5/51.5	106/26.8	140/60.8	119/24.4	154/56.5
		N	30	4	12	4	2	4	2
		Р	15.5	18	21	24	26	26	34
		R	30	4	15	5	0	5	0
		S _{f6}	15	10	5.5	16	5.5	56	5.5
Push rod pos. check dimension		T	22	2	29	4	6	6	0
		U	10	1	15	1	5	1	5
Axial movement/jaw carrier		Z	44		53	5		6	5
Piston stroke for jaw clamping		Z1	15	1	17	2		32	2.5
Opening/residual stroke angle		a1/a2	4.5°/1.5°	4.5°	7/1.3°	4.5°	/1.3°	5°/	/2°
Opening/residual stroke at distance h*		mm	4.0/1.3	4.5	/1.3	5.7	/1.9		
Max. jaw stroke at distance h*		mm	5.3	5	5.8	7.	.6		
		b	30	3	36	4	4	5	2
		d	65	7	78	96	5.5	150	0.5
Residual jaw height		h	18		17	2	_	2	8
Oil volume horizontal use		liter	0.25		.50	0.		1.	50
Oil volume vertical use		liter	0.50	1.	.00		50	3.0	00
Max. speed		r.p.m.	5000		000		00	18	00
Max. draw pull		kN	30	5	55	7	5	10	00
Max. grip force at reference distance h*		kN	60	1	10	15	50	20	00
Moment of inertia		kg·m²	0.236	0.639	0.606	1.872	1.734	9.35	8.91
Weight (without top jaws)		kg	40	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 chuck with mounting bolts and mounting keys, oil*



	Spindle Type mounting	W-215	W-260	W-325	W-460
/7	A6	069930	069527		
/	A8	069932	069444	069525	
	A11		069815	068981	069602
	A15				069600

Supply range: Self centering clamping chuck with mounting bolts and mounting keys, oil*



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

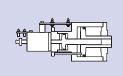
The W-chucks in this ordering review are for the use of power operated face drivers only (Type 1).

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.

Actuating cylinder



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.	045299	045297	045297/045298	045298	
DCN			170-40/95-50		
ld No			33705215		

Oil



Oil for permanent oil bath lubrication				
Oil specification	CGLP ISO VG 68			
Contents	1 liter/1.05 quart (U.S.)			
ld No	107950			

