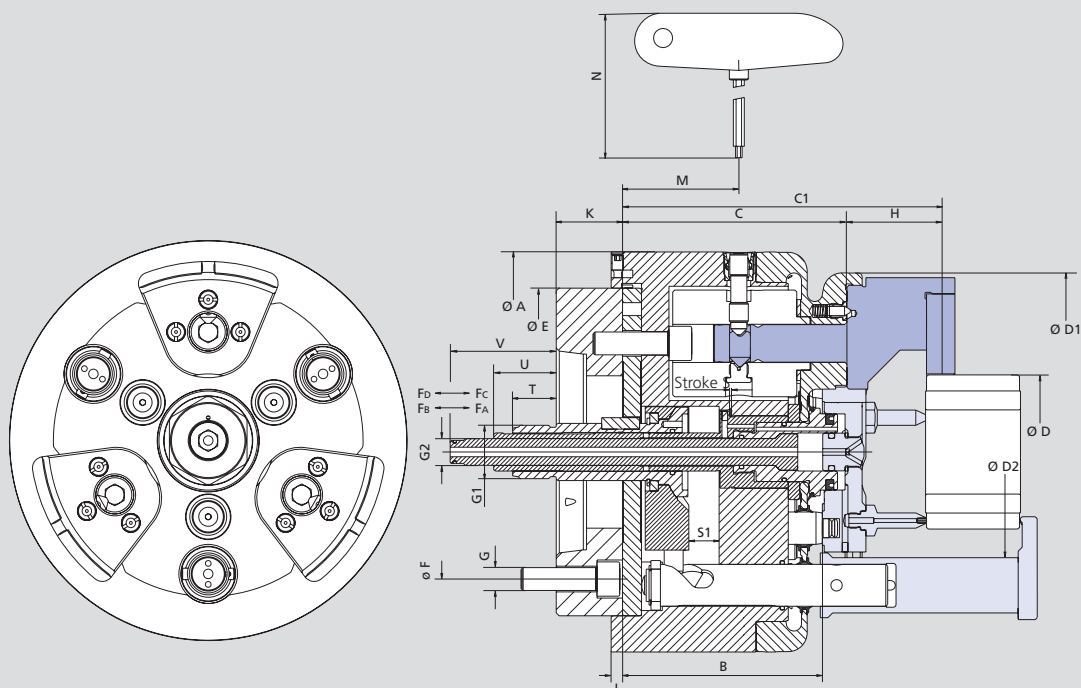




Subject to technical changes
For more detailed information please ask for customer drawing

SMW-AUTOBLOK Type			D-210 KOMBI		D-260 KOMBI		D-315 KOMBI
Mounting	Size		A5	A6	A6	A8	A8
	A	mm	210		260		315
	B	mm	105.5		116		116
	C	mm	118.5		130		130
	C1	mm	170.5		187		192
Clamping range without fingers	D	mm	20-175		40-220		60-275
	D1	mm	188		227		275
Clamping range with fingers	D2	mm	111		153		203
	E	mm	172		225		275
	F	mm	104.8	133.4	133.4	171.4	171.4
	G		M10	M12	M12	M16	M16
	G1		M28 x 1.5		M28 x 1.5		M28 x 1.5
	G2		M14 x 1.5		M14 x 1.5		M14 x 1.5
Jaw height	H	mm	52		57		62
	J	mm	6		6		6
	K	mm	40		48		48
	M	mm	61.4		61.9		61.9
	N	mm	185		185		185
Piston stroke	S	mm	1.0		1.5		1.7
Axial stroke swing clamps	S1	mm	16		16		16
	T	mm	18		10		10
	U	mm	28		20		20
	V	mm	51		43		43
Jaw stroke at distance H		mm	1.0		1.1		1.2
Draw pull min./max.*	Fd	kN	0-25		0-25		0-25
Draw pull for chuck open	Fc	kN	20		20		20
Draw pull swing clamps max.	Fb	kN	6		9		9
Draw pull swing clamps open	FA	kN	2		2		2
Moment of inertia		kg·m ²	0.16		0.45		0.75
Weight without top tooling		kg	30		44		60
Recommended actuating cylinder	Type		ZHVD-DFR		ZHVD-DFR		ZHVD-DFR

* Additional draw pull to the diaphragme force actuated by the actuating cylinder

Advice: The max. allowed speed for the application is permanently marked on the corresponding top jaws and must not be exceeded.

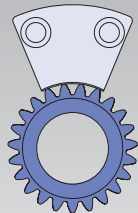
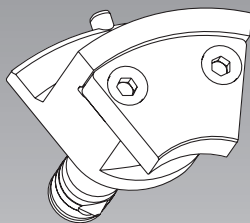
Important: Never rotate the chuck without inserted jaws, otherwise the centrifugal force compensation mechanism will get damaged.

- Clamping jaws
- Rotating double piston cylinder
- Installation

Radial-axial clamping
QUICK JAW CHANGE SYSTEMS

Jaws

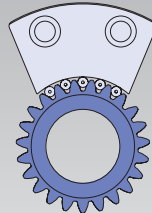
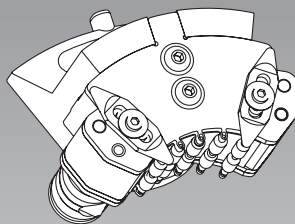
type A



External clamping

Jaws

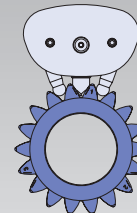
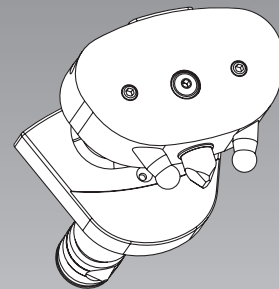
type B



Pitchline clamping with roller cage

Jaws

type C



Pitchline clamping with pin

Actuating cylinder ZHVD-DFR for D-KOMBI®

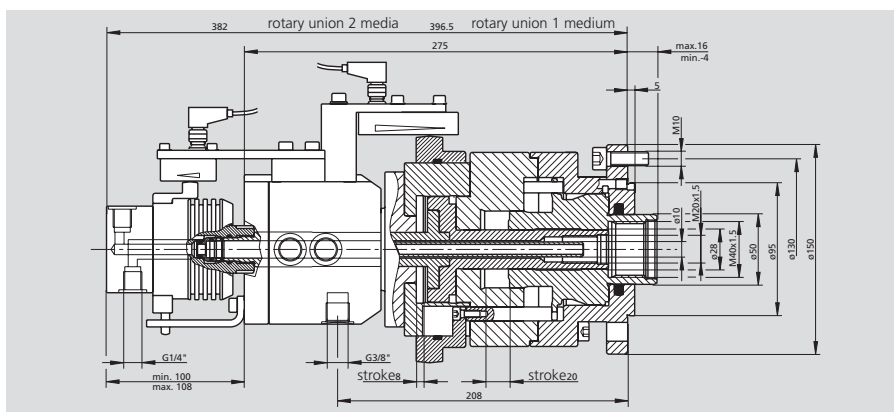
Technical features

- Special double piston cylinder to actuate D-KOMBI
- 2 independent pistons for diaphragm jaws and axial swing clamp drive
- Rotating unions for 1 or 2 media
- 2 Linear Position Systems LPS for monitoring of the piston strokes

Standard equipment

- Cylinder with kit for LPS, without LPS position sensor

LPS see page 233



ZHVD-DFR for rotary union 1 medium Id. No. 044865 (without rotary union)

ZHVD-DFR with rotary union 2 media Id. No. 044866 (rotary union 2 media included)

Piston surface				Pressure min./max.	Speed max.	Leakage at 30 bar 50°C	Weight cylinder	Moment of inertia	Weight of rotary union	
Axial finger (K1)	Diaphragm (K2)								1 medium	2 media
A	B	C	D	bar	r.p.m.	dm³/min	kg	kg·m²	kg	kg
push	pull	push	pull							
cm²	cm²	cm²	cm²							
17.6	30.6	40.6	39.2	3-60	4000	3.0	25	0.065	0.4	1.5

Installation

