

ZHVD-SZ

Rotating hydraulic cylinder
with 2 independent pistons

- up to 80 bar
- central bore for air/coolant/oil
- stroke control via proximity switch or linear positioning system



Application/customer benefits

- Actuation of retractable jaw chuck with power operated face drivers
- Actuation of power chuck with part-ejector
- Actuation of power chucks with retractable axial stop/finger chucks with power operated centering fixture

Technical features

- Double piston cylinder with 4 way oil manifold for separate actuation of the cylinders
- Horizontal or vertical installation
- Stroke control on each cylinder, safety valves on the big cylinder
- Central bore for coolant, oil or air with thread for rotary union
- Mounting from the rear side with bolts
- A 10 µm filter in pressure line is requested. Use oil HM32 ISO 3448
- Pressure range 8-70 bar

Standard equipment

Double piston cylinder
Mounting screws
Stroke control on each cylinder
Proximity bracket (without proximity switch)

Ordering example

Double piston cylinder ZHVD-SZ 068-17
or
Double piston cylinder ZHVD-SZ 068-17
with rotary union (optional)

Technical data

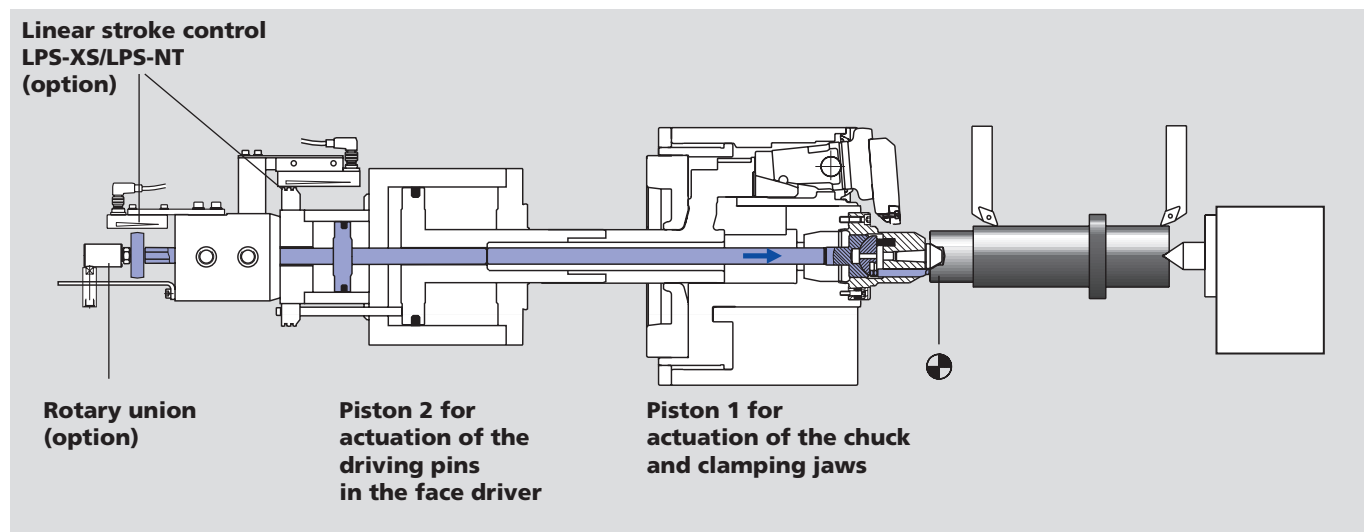
SMW-AUTOBLOK Type			ZHVD-SZ 068-17 045299	ZHVD-SZ 110-25 045297	ZHVD-SZ 240-40 045298
Id. No.					
Piston stroke		mm	70/15	90/15	105/20
Piston area A/piston force	max.	cm²/kN	68/54	110/88	241/144
Piston area B/piston force	max.	cm²/kN	60/48	92/73	222/133
Piston area C/piston force	max.	cm²/kN	16/12	25/20	40/24
Piston area D/piston force	max.	cm²/kN	14/11	21/16	36/21.6
Speed	max.	r.p.m.	5000	4000	4000
Weight		kg	26	37	68
Moment of inertia J		kg·m²	0.065	0.125	0.42
Operating pressure	max.	bar	80	80	60
Operating pressure	min.	bar	8-10	8-10	8-10
Oil leakage (*)		dm³/min	3	3	3

* Total at 30 bar / 50 °C

** At max. speed/ oil HM32 ISO 3448

Important: On higher pressure the leakage increases proportionally. On higher oil temperature the leakage increases over proportionally (the use of an oil cooler is recommended).
When designing/checking the hydraulic unit please ask for our data sheets.

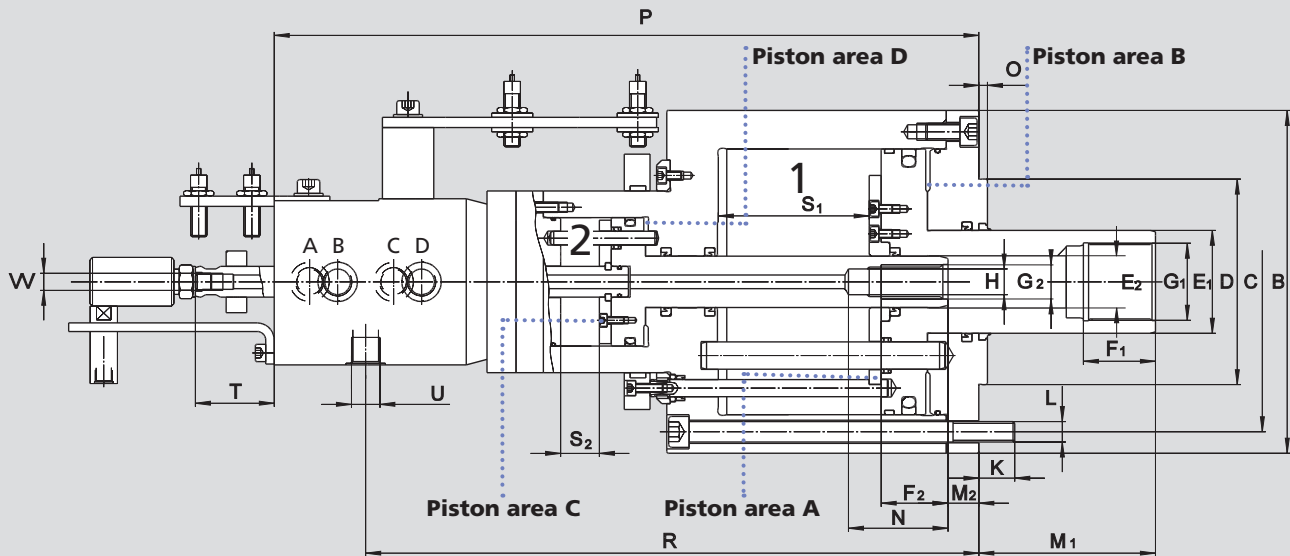
ZHVD-SZ cylinder with retractable jaw chuck and power operated face driver



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

SMW-AUTOBLOK Type		ZHVD-SZ 068-17	ZHVD-SZ 110-25	ZHVD-SZ 240-40
Id. No.		045299	045297	045298
	B mm	165	198	230
Fixing bolts circle	C mm	145	175	205
Centering rim	D mm	105	120	160
	E1 mm	45	60	60
	E2 mm	25	30	30
	F1 mm	33	42	42
	F2 mm	28	41	39
Piston rod thread 1	G1 mm	M36 x 1.5	M45 x 1.5	M50 x 1.5
Piston rod thread 2	G2 mm	M16	M20	M20
	H mm	13.5	15	15
	K mm	15	15	21
Fixing bolts/number	L mm	M10 / 6x	M12 / 6x	M12 / 6x
	M1 mm	82/12	105/15	106/1
	M2 mm	33/18	33/18	67/47
	N mm	50	58	58
	O mm	5	5	5
	P mm	381	400	442
	R mm	329	348	389
Stroke Piston 1	S1 mm	70	90	105
Stroke Piston 2	S2 mm	15	15	20
	T mm	48/33	52/37	77/57
	U mm	G3/8"	G3/8"	G3/8"
	W mm	M10 x 1	M10 x 1	M10 x 1

Option: LPS-NT Linear stroke control
Rotary union for oil/coolant/air