

- Double piston rotating hydraulic cylinder
- Up to 70 bar
- Central bore for air / coolant / oil
- Stroke control via proximity switch or LPS 4.0



Application/customer benefits

- Actuation of 2 + 2 power chucks type TPT with 2 piston actuation
- 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 2 cylinders
- Pressure range 8 - 70 bar
- Horizontal or vertical installation
- Safety valves on the biggest cylinders and stroke control on each cylinder (piston 1)
- Central bore for air, coolant or oil 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

Standard equipment

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

Ordering example

Double piston cylinder DCE 64-64
or
Double piston cylinder DCE 64-64
with rotary union (optional)

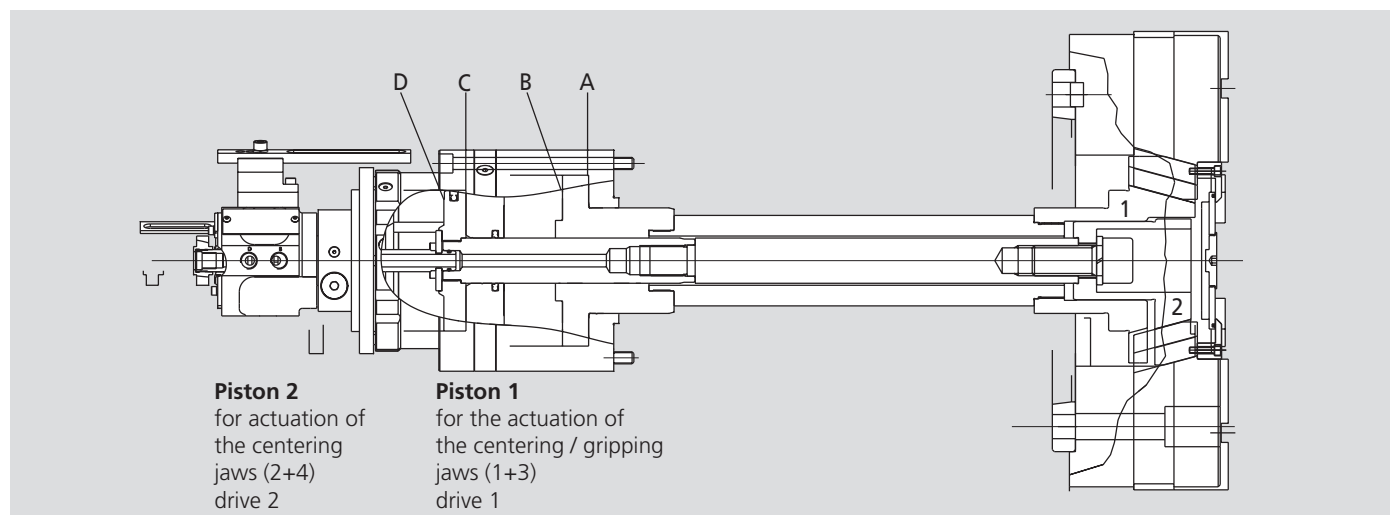
Technical data

SMW-AUTOBLOK Type		DCE 64-64 / 30-40	DCE 140-140 / 50-50	DCE 240-240 / 60-60
Id. No.		33705212	33705217	33705221
Piston stroke	mm	30 - 40	50 - 50	60 - 60
A Piston area	cm ²	66	140	238
B Piston area	cm ²	63	211	340
C Piston area	cm ²	63	138	238
D Piston area	cm ²	66	150	254
A Piston force max.	kN	46	98	119
B Piston force max.	kN	44	147	170
C Piston force max.	kN	44	97	119
D Piston force max.	kN	46	105	127
Max. speed	r.p.m.	5000	4000	3200
Weight	kg	28.6	42.5	116
Moment of inertia	kg·m ²	0.074	0.18	1
Operating pressure max.	bar	70	70	50
Operating pressure min.	bar	8	8	8
Oil leakage (*)	dm ³ /min	3	3	3

* Total at 30 bar / 50 °C.

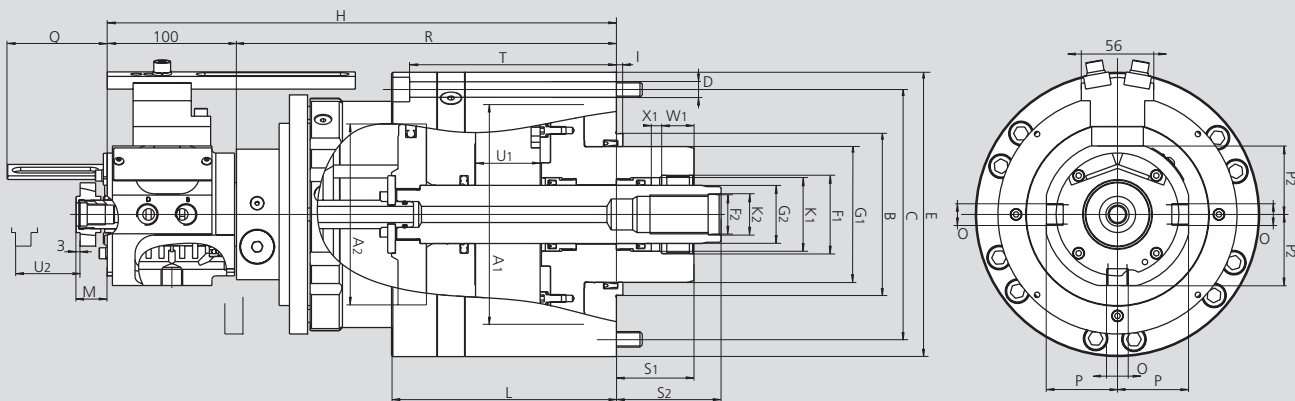
Important: On higher pressure the leakage increases proportionally. On higher oil temperature the leakage increases over proportionally (the use of an oil cooler is recommended).
When designing / checking the hydraulic unit please ask for our data sheets.

Cylinder DCE for 2 + 2 chucks type TPT



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Equal piston area and stroke
2 independent pistons



Subject to technical changes.
For more detailed information please ask our customer service.

SMW-AUTOBLOK Type			DCE 64-64 / 30-40	DCE 140-140 / 50-50	DCE 240-240 / 60-60
Piston diameter 1	A1	mm	125	170	215
Piston diameter 2	A2	mm	95	140	183
Centering rim	B h6	mm	105	125	160
Fixing bolt circle	C	mm	145	195	250
Fixing bolts	D	mm	6 x M10	6 x M12	6 x M16
	E	mm	174	220	280
Piston rod thread 1	F1	mm	M45 x 1.5	M60 x 1.5	M75 x 2
Piston rod thread 2	F2	mm	M20 x 1.5	M30	M36
	G1	mm	85	105	125
	G2	mm	30	45	55
	H	mm	362	394	451
	I	mm	5	5	5
	K1	mm	42	57	70
	K2	mm	20,5	31	37
	L	mm	164	174	213
Max.	M	mm	31	24	28
	O	inch	G 3/8"	G 3/8"	G 1/2"
	P	mm	55	55	62
	P1	mm	55	55	63
	P2	mm	53	53	63
	Q	mm	77	77	97
	R	mm	262	294	326
Min.	S1	mm	40	60	70
Min.	S2	mm	76	81	110
	T	mm	151	160	197
Piston stroke cyl. 1	U1	mm	30	50	60
Piston stroke cyl. 2	U2	mm	40	50	60
	W1	mm	25	25	35
	W2	mm	30	45	50
	X1	mm	10	8	9
	X2	mm	10	10	10

DCE cylinder with optional LPS 4.0 linear stroke control

