

- double piston rotating hydraulic cylinder
- up to 70 bar
- central bore for air/coolant/oil
- stroke control via proximity switch or linear positioning system



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
- Stroke control on each cylinder, safety valves
- 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
Mounting screws
Stroke control on each cylinder
Proximity bracket (without proximity switch)

Ordering example

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

Technical data

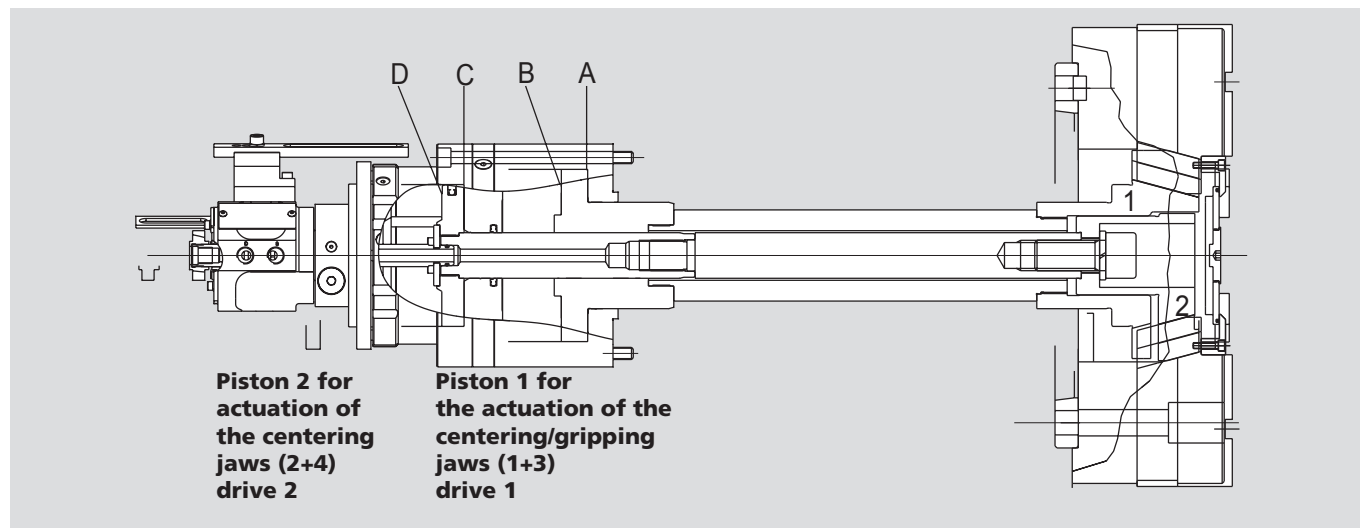
SMW-AUTOBLOK Type		DCE 64-64/30-40	DCE 140-140/50-50	DCE 240-240/60-60
Id. No.		33705212	33705217	33705221
Piston strokes	mm	30-40	50-50	60-60
Piston area A	cm ²	66	140	238
Piston area B	cm ²	63	211	235
Piston area C	cm ²	63	138	238
Piston area D	cm ²	66	150	254
A piston force max	kN	46	98	118
B piston force max	kN	44	147	118
C piston force max	kN	44	97	118
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

** 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.

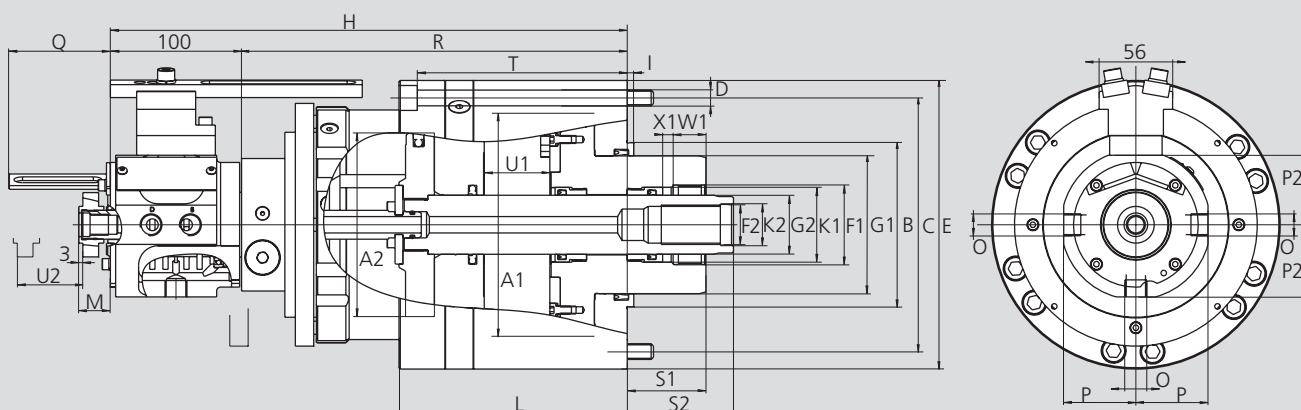
Cylinder DCE for 2 + 2 chucks type TPT



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DCE

Equal piston area and stroke
2 independent pistons



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

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
min.	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
max.	S1	mm	40	60	70
	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-X
linear stroke control**

