

- 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

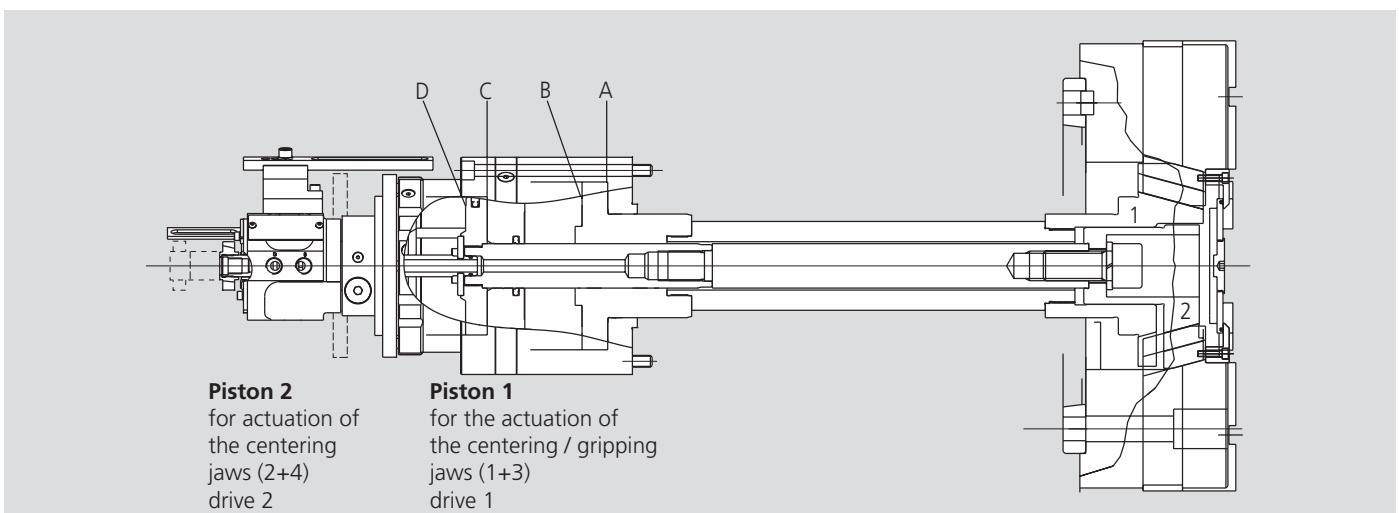
SMW-AUTOBLOK Type		DCE 64-64 / 30-40	DCE 140-140 / 50-50	DCE 240-240 / 60-60
Id. No.		33705212	33705217	33705221
Piston stroke	mm	30 - 40	50 - 50	60 - 60
A Piston area	cm <sup>2</sup>	66	140	238
B Piston area	cm <sup>2</sup>	63	211	340
C Piston area	cm <sup>2</sup>	63	138	238
D Piston area	cm <sup>2</sup>	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 <sup>2</sup>	0.074	0.18	1
Operating pressure max.	bar	70	70	50
Operating pressure min.	bar	8	8	8
Oil leakage (*)	dm <sup>3</sup> /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).

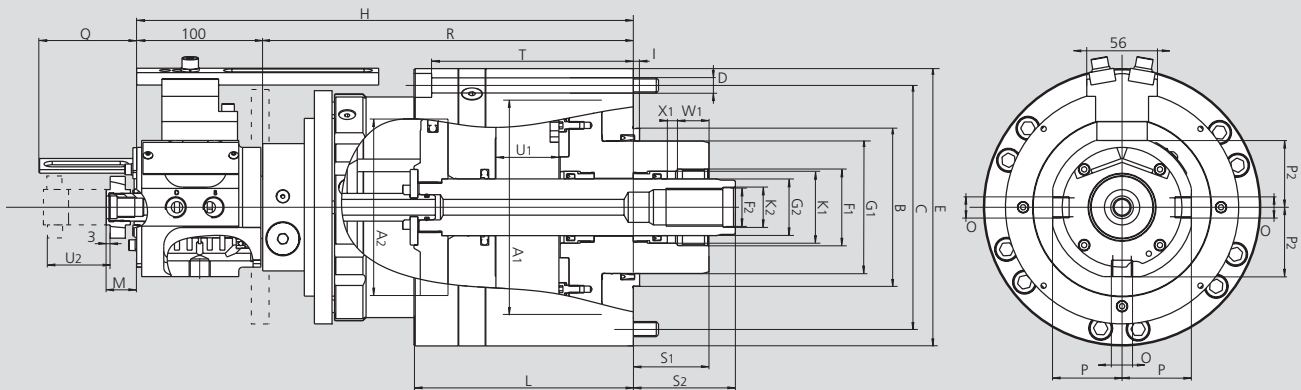
When designing / checking the hydraulic unit please ask for our data sheets.

## Cylinder DCE for 2 + 2 chucks type TPT



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

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

