



Closed loop

All Poclain Hydraulics pumps for closed loop use a proven technology: the axial piston swash plate concept. They meet the need of continuously changing speeds, optimise the use of power and torque based on operating requirements. They integrate charge pump as standard version, and can be mounted in tandem.

Variable displacement PM range: up to 65 cc/rev (4 cu/rev)

- Compact
- Wide range of options to fit your need (availability according the model):
- Gauge pressure
- Reinforced bearing for belt drives Flushing valve
- Viton seals
- Swash plate on brass
- Suction filter
- Low noise level distributor Filter on pressure without clogging indicator
 - Filter on pressure with clogging indicator
 - Mechanical inching (for automotive control)







		PMV0	PM10	PM25	PM45	PM65
Disalesement	cm³/rev	7 → 18	7 → 21	20→28	35→52	55 → 65
Displacement	cu.in/rev	0.43 → 1.10	0.43→ 1.28	1.22 → 1.71	2.14 → 3.17	3.41 → 3.97
May progue	bar	300	350	350	350	350
Max. pressure	PSI	4 350	5 076	5 076	5 076	5 076
Max. rotation speed	rpm	3 600	3 600	3 600	3 600	3 400
May namer	kW	27	31	42	78	92
Max. power	HP	36	42	57	105	123
Max. Mass	kg	8	18	16	28	31
	lb	17.6	39.7	35.3	61.7	68.3
Thru-shaft options		DIN grp 1 - 2	SAE A+B DIN grp 1 - 2	SAE A DIN grp 2	SAE A+B	SAE A+B
		(Controls			
A - Mechanical servo control			-	-	-	-
B - Electrical with return springs					-	
C - Electrical without return springs					-	
D - Hydraulic Automotive Control					-	
M - Direct mechanical						
N - Direct mechanical with spring return						
P - Electro-proportional control						-
Q - Electro-proportional control w/feed-back						
S - Hydraulic servo control						-
T - Hydraulic servo control w/ f						







Grass mower

Roller < 7 ton

Sweeper



Variable displacement P90 range: up to 250 cc/rev (15.25 cu/rev)

- High design flexibility:
 - 14 output shafts
 - 8 charge pumps from 11 to 65 cc/rev
 - choice of filtration
 - 2 connection locations to suit your machine
 - a range of auxiliary mounting pads
- High torque for throughdrive
- Reversible
- Overpressure protection
- Rugged and compact
- Rear auxiliary mount: SAE A, B, C, D, E







		P90-055	P90-075	P90-100	P90-130	P90-180	P90-250	
Displacement	cm³/rev	55	75	100	130	180	250	
	cu.in/rev	3.35	4.58	6.10	7.93	10.98	15.25	
May propoure	bar	450						
Max. pressure	PSI	6 526						
Max. rotation speed	rpm	4 250	3 950	3 650	3 400	2 850	2 500	
Max. power	kW	158	199	243	297	345	424	
	HP	212	267	325	398	463	568	
Mass	kg	40	49	68	88	136	154	
	lb	88.2	108	150	194	300	340	
Controls								
12 / 24V DC SA control				•	-		•	



The SA control, when combined with SmartDrive™ electronic control system, provides many new functions: The swashplate position is continuously monitored by a sensor. This continuous position FeedBack results in:

- An electronic closed loop regulation Simultaneous control of both solenoids
- Automatic calibration of the pump position sensor when the machine is stopped
 Automatic calibration of minimum and maximum solenoid current.

Thanks to an advanced software development, the SmartDrive™ ECU is able to detect a malfunction in the system. In such an event, the machine goes into a «limp» mode.







Urban shuttle

Fixed displacement PL range

- In line radial pistons
- High speed for engine drive
- High efficiency
- High durability
- Independent output flows





Pump type		1 output	2 outputs	3 outputs	4 outputs			
		PL1H14	PL2H14	PL3H14	PL4H10	PL4H14		
Displacement	cm³/rev	17.5 → 32	2 x 17.5 → 2 x 32	3 x 17.5 → 3 x 37	4 x 10.3 → 4 x 12.5	4 x 17.5 → 4 x 37		
	cu.in/rev	1.07 → 1.95	2 x 1.07 → 2 x 1.95	3 x 1.07 → 3 x 2.26	4 x 0.63 → 4 x 0.76	4 x 1.07 → 4 x 2.26		
Max. pressure	bar	450						
	PSI	6 526						
Max. speed	RPM	3 100 → 2 400	3 100 → 2 400	3 400 → 2 400	2 700	3 100 → 2 000		
Max. power	kW	41 → 58	81→115	134→180	84→102	163→222		
	HP	55→78	109→154	180→241	113→137	219→298		
Max. mass	kg	28	38	47	42	68		
	lb	55	84	104	93	150		

Pump type		4 outputs		6 outputs			
		PL4H18 PL4H20		PL6H14	PL6H20		
Displacement	cm³/rev	4 x 33 → 4 x 52	4 x 58 → 4 x 74	6 x 17.5 → 6 x 32	6 x 58 → 6 x 74		
	cu.in/rev	4 x 2.01 → 4 x 3.17	4 x 3.54 → 4 x 4.52	6 x 1.07 → 6 x 1.95	6 x 3.5 → 6 x4.52		
Max. pressure	bar	450					
	PSI	6 526					
Max. speed	RPM	2 500 → 2 400	2 400 → 2 300	3 200 → 2 300	2 400 → 2 000		
Max. power	kW	246 → 376	417 → 510	252 → 331	626 → 666		
	HP	330 → 504	559 → 684	338 → 444	839 → 893		
Max. mass	kg	140	250	84	360		
	lb	309	551	185	794		



Crusher



Mining machine



Harbour handling material

You have a project?

Send us your specifications to pumps@poclain-hydraulics.com

Find our technical documentation and our training schedule on:

