

PL PUMP RANGE

STAINLESS STEEL, **MAGNETIC DRIVE**, CENTRIFUGAL PUMPS



- ∞ CAPACITY <2001L/MIN
- ∞ HEAD <132 Metres
- ∞ SEALLESS LEAK FREE DESIGN
- ∞ STAINLESS STEEL BUILD
- ∞ TOTAL CORROSION RESISTANCE
- ∞ UK ASSEMBLY

Part of the **PTCX**
Pump Range



PS



PM



PW



PSJ



PSO

∞ PM OVERVIEW

The PL series is the largest capacity series with power up to 18.5KW, which can be used to process large flow and higher head applications.

High capacity stainless steel magnetic drive pumps, with flow rate up to 2001 LPM. Our PTCX Stainless Steel magnetic drive pumps are manufactured in 316L stainless steel as standard.

∞ SEALLESS LEAK FREE DESIGN

A fully sealless structure design resolves leakage problems, and makes sealless magnetic drive the best choice for transferring hazardous or volatile chemicals

∞ QUICK INSTALLATION & EASY MAINTENANCE

The feature of simple structure requires no special tools to install or to disassemble. Having no mechanical seal saves time on installation and disassembly and will reduce the the frequency for parts replacement and maintenance.



**2 YEARS
WARRANTY**



**ATEX ZONE 1/2
AVAILABLE**



**CORROSION
RESISTANCE**



**FLEXIBLE TO
DESIGN SPEC**

PL PUMP RANGE

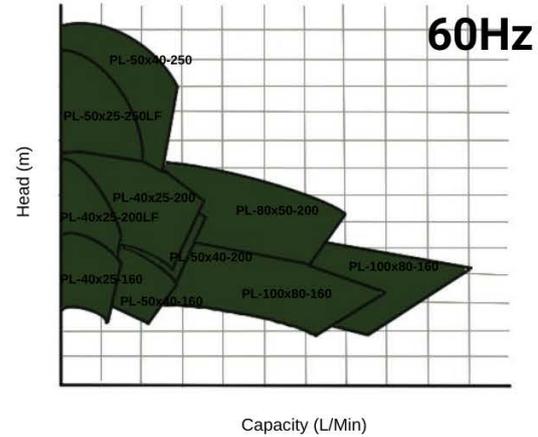
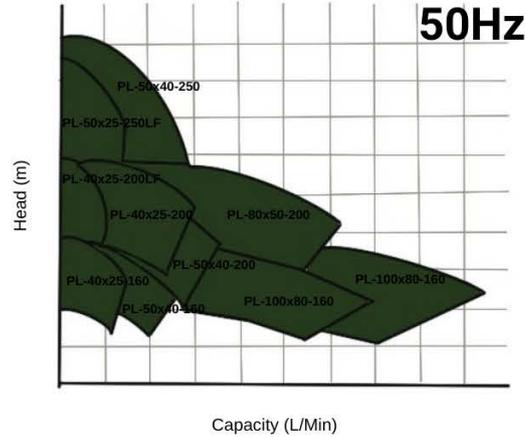
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∞ RANGE CURVES

Performance curve family for the magnetic drive PL Series.

∞ INFORMATION

For more specific model curves, general arrangement drawings or exploded views of individual models, please visit www.crestpumps.co.uk.



∞ TECHNICAL SPECIFICATION

	PL	
	50Hz	60Hz
Frequency	50Hz	60Hz
Max. Capacity	1904L/M	2001L/M
Max. Total Head	91.3m	132m
Suction & Discharge	40 x 25 - 100 x 80	
Temperature Range	-80°C - 280°C	
Specific Gravity	<2	
Viscosity	<300mPa.s (cp)	
Design Pressure	1.2MPaG (*PL-50X25-250LF: 1.6MPaG*)	
Flange Standard	ANSI Class 150 / JIS 10K / DIN PN16	
Motor Output	5.5KW - 18.5W	
Pump Material	SUS316L (Standard) / Alloy20 (Optional) / HAS -C equivalent (Optional)	

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RANGE DIMENSIONS

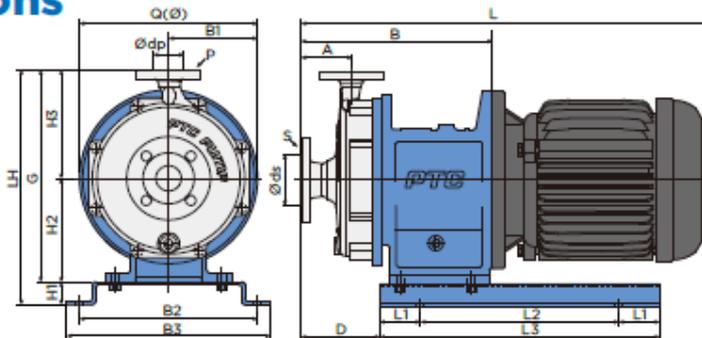
For specific 3D CAD drawings or specific pump dimensions, please contact us at info@crestpumps.co.uk or telephone +44 (0)1425 627700.

NOTE:

1. The total length and weight of the pump will differ depending on the brand of the motor.
2. All dimensions are in mm.
3. Assembly tolerances are +/- 3mm.

Model range is full polypropylene range. Please see our website for more details on cast iron models.

Dimensions



Unit:mm

Model	Motor		Bore				Pump size																																																		
	Frame Size	Output (KW)	Suct. ds	S	Disch. dp	P	LH	G	H1	H2	H3	B1	B2	B3	Q (Ø)	A	B	L	D	L1	L2	L3																																			
PL-40x25-160	132L	5.5/7.5	40	ANSI Class 150 / JIS 10K / DIN PN16	25	ANSI Class 150 / JIS 10K / DIN PN16	375	335	40	170	165	150	350	400	300	100	341	*Note1	149,5	80	240	400																																			
	160L	11/15/18,5					415	370	45	205	175	350	400	350	371	390	550																																								
PL-40x25-200	132L	5.5/7.5	40		ANSI Class 150 / JIS 10K / DIN PN16		25	ANSI Class 150 / JIS 10K / DIN PN16	375	335	40	170	165	150	350	400	300						100	341	*Note1	149,5	80	240	400																												
	160L	11/15/18,5							415	370	45	205	175	350	400	350	371						390	550																																	
PL-40x25-200LF	132L	5.5/7.5	40				ANSI Class 150 / JIS 10K / DIN PN16		25	ANSI Class 150 / JIS 10K / DIN PN16	375	335	40	170	165	150	350						400	300						100	341	*Note1	149,5	80	240	400																					
	160L	11/15/18,5									415	370	45	205	175	350	400						350	371						390	550																										
PL-50x25-250LF	132L	5.5/7.5	50						ANSI Class 150 / JIS 10K / DIN PN16		25	ANSI Class 150 / JIS 10K / DIN PN16	425	385	40	170	215						169	350						400	338						100	346	*Note1	154,5	80	240	400														
	160L	11/15/18,5											465	420	45	205	175						350	400						350	376						390	550																			
PL-50x40-160	132L	5.5/7.5	50								ANSI Class 150 / JIS 10K / DIN PN16		40	ANSI Class 150 / JIS 10K / DIN PN16	375	335	40						170	165						150	350						400	300						100	341	*Note1	149,5	80	240	400							
	160L	11/15/18,5													415	370	45						205	175						350	400						350	371						390	550												
PL-50x40-200	132L	5.5/7.5	50										ANSI Class 150 / JIS 10K / DIN PN16		40	ANSI Class 150 / JIS 10K / DIN PN16	375						335	40						170	165						150	350						400	300						100	341	*Note1	149,5	80	240	400
	160L	11/15/18,5															415						370	45						205	175						350	400						350	371						390	550					
PL-50x40-250	132L	5.5/7.5	50	ANSI Class 150 / JIS 10K / DIN PN16		40									ANSI Class 150 / JIS 10K / DIN PN16		425	385	40	170	215	169	350	400						338	100						346	*Note1						154,5	80						240	400					
	160L	11/15/18,5															465	420	45	205	175	350	400	350						376	390						550																				
PL-80x50-160	132L	5.5/7.5	80		ANSI Class 150 / JIS 10K / DIN PN16	50		ANSI Class 150 / JIS 10K / DIN PN16									410	370	40	170	200	150	350	400	300	100	346	*Note1	154,5	80	240						400																				
	160L	11/15/18,5															450	405	45	205	175	350	400	350	376	390	550																														
PL-80x50-200	132L	5.5/7.5	80			ANSI Class 150 / JIS 10K / DIN PN16	50			ANSI Class 150 / JIS 10K / DIN PN16							410	370	40	170	200	150	350	400	300	100	346					*Note1	154,5	80	240	400																					
	160L	11/15/18,5															450	405	45	205	175	350	400	350	376	390	550																														
PL-100x80-160	132L	5.5/7.5	100				ANSI Class 150 / JIS 10K / DIN PN16		80			ANSI Class 150 / JIS 10K / DIN PN16					410	370	40	170	200	163,5	350	400	313,5	100	360												*Note1	168,5	80	240	400														
	160L	11/15/18,5															450	405	45	205	175	350	400	350	390	550																															

*Note1. Dimension of (L) will differ depending on the brand and installation of the motor

1.

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EXPLODED VIEW

Modular Design Interchangeable Parts Reduce Cost



Front Casing
Precision casting method is used to bring a **universal flange design** for three types of piping connections which are ANSI, JIS, and DIN.

Casing Cover
Special flow channel and easy disassembly design make easy maintenance.

Gasket
PTFE is used as gasket standard material which compatibility is used for most chemicals in the industry.

Bearing Thrust ring Sleeve
Parts are made with SIC material which provides low friction with minimum wear and excellent chemical corrosion resistance.

Impeller
Precision casting method is used to bring **one-piece design** of structure without welding which improves durability and better corrosion resistance.

Main Material
SUS316L is provided for better corrosion resistance. Alloy20 and Hastelloy-C equivalent are also provided for optional selection.

Shaft
High precision forging unit is used to improve balance during operation. Shaft reaming design helps inner flow channel for better cooling and improve durability.

Inner Magnet
High-performance rear earth magnet is used to provide for the inner magnet, temperature use range from minus 80 degree to 280 degree Celsius.

Anti-Vortex
Anti-vortex design for rear casing is to prevent abrasion caused by impurity substances.

Outer Magnet
Outer magnet surface with **anti-corrosion coating** is avoid corrosion caused external environmental influences.

Rear Casing
One-piece design of rear casing is of excellent pressure and corrosion resistance. Coupling type material provide SUS316L, additionally an optional Hastelloy-C equivalent material to reduce the magnetic loss and improve the operation efficiency.

Baseplate Adapter
Two-piece design for baseplate adapter can be customized adjusted according to the installation height on site. The installation of motor is designed for **star IEC motor frames** and closed piped design requires no special nor shaft alignment.

INFORMATION

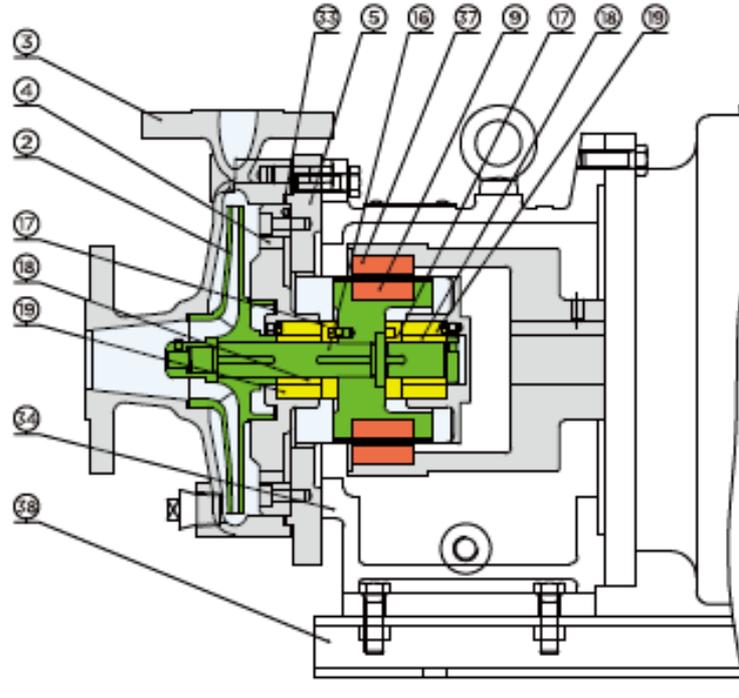
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If you need 3D CAD models of the range, please contact one of our team and we will arrange for a copy to be sent to you by email.

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PARTS LIST & MATERIAL CONSTRUCTION



MATERIAL CODE	PARTS NAME	MATERIAL
2	IMPELLER	SUS316L
3	FRONT CASING	SUS316L
4	CASING COVER	SUS316L
5	REAR CASING	SUS316L
9	INNER MAGNET	SUS316L + RARE EARTH
16	SHAFT	SUS316L
17	THRUST RING	SiC
18	SLEEVE	SiC
19	BEARING	SiC
33	GASKET	PTFE
34	FRAME ADAPTER	SS400
37	OUTER MAGNET	SS400 + RARE EARTH
38	BASEPLATE	FC25