

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**

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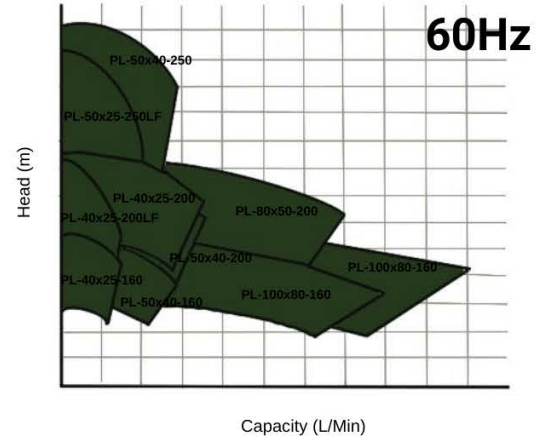
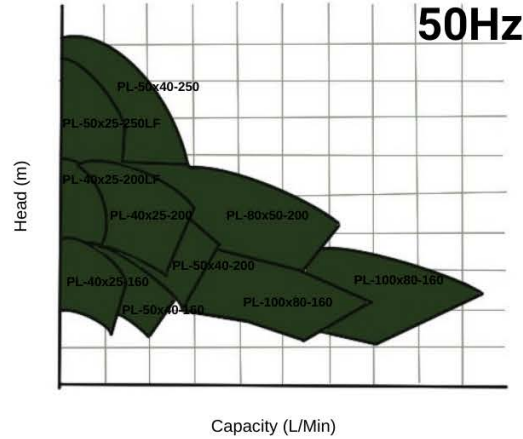
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RANGE CURVES

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

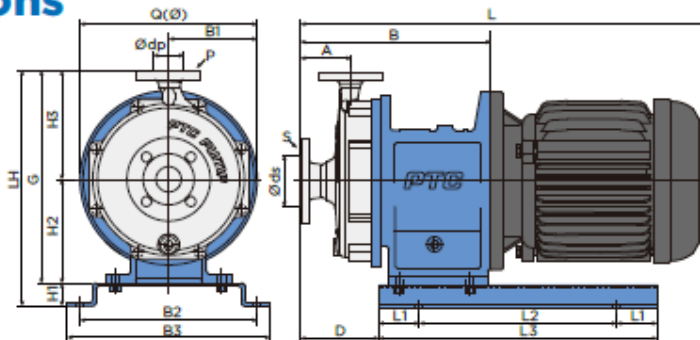
For specific 3D CAD drawings or specific pump dimensions, please contact us at info@crestpumps.co.uk or telephone +44 (0)1425 627700.

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
PL-40x25-160	132L	5.5/7.5	40	160L	25	25	375	335	40	170	165	150	350	400	300	100	341	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	160L	25	25	375	335	40	170	165	150	350	400	300	100	341	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	160L	25	25	375	335	40	170	165	150	350	400	300	100	341	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	160L	25	25	425	385	40	170	215	169	350	400	338	100	346	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	160L	40	40	375	335	40	170	165	150	350	400	300	100	341	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	160L	40	40	375	335	40	170	165	150	350	400	300	100	341	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	160L	40	40	425	385	40	170	215	169	350	400	338	100	346	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	160L	50	50	410	370	40	170	200	150	350	400	300	100	346	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	160L	50	50	410	370	40	170	200	150	350	400	300	100	346	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	160L	80	80	410	370	40	170	200	163,5	350	400	313,5	100	360	168,5	80	240	400
	160L	11/15/18,5					450	405	45	205	175	350	400	350	390	390	550				

*Note: 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.



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.



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.



Main Material

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

Impeller

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



Bearing Thrust ring Sleeve

Parts are made with **SIC material** which provides low friction with minimum wear and excellent chemical corrosion resistance.



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.



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

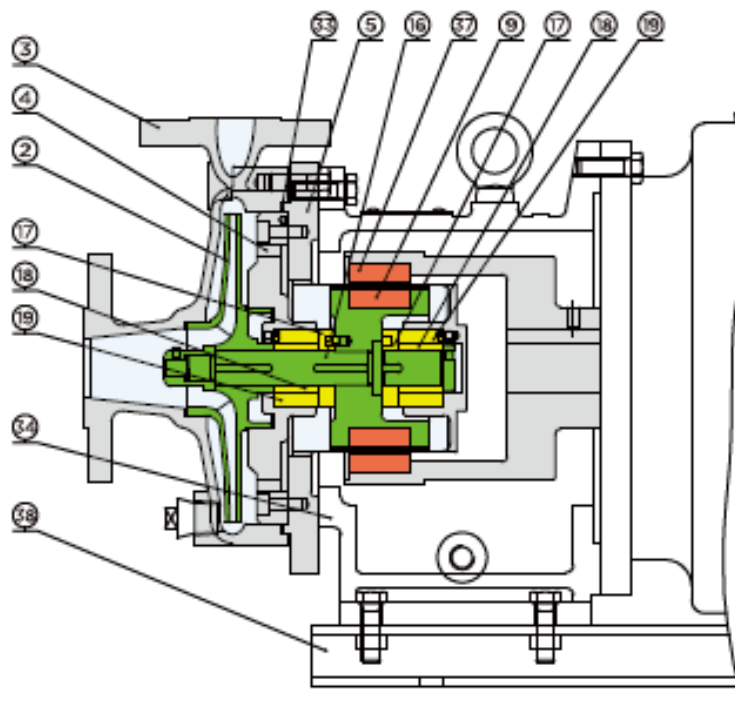
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If you need 3D CAD models of the range, please contact one of our team and we will arrange for a copy to be sent to you by email.

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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