






PL2 PUMP RANGE

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



-  CAPACITY <500L/MIN
-  HEAD <121 Metres
-  SEALLESS LEAK FREE DESIGN
-  STAINLESS STEEL BUILD
-  TOTAL CORROSION RESISTANCE
-  UK ASSEMBLY

Part of the **PTCX**
Pump Range



PS



PL



PM



PW



PSJ

PL2 OVERVIEW

The PL2 series is a multi-stage type which can be applied to high head and large flow applications.

High capacity stainless steel magnetic drive pumps, with flow rate up to 500 LPM.

Our PTCX Stainless Steel magnetic drive pumps are manufactured in 316L stainless steel as standard.



**2 YEARS
WARRANTY**



**ATEX ZONE 1/2
AVAILABLE**



**CORROSION
RESISTANCE**



**FLEXIBLE TO
DESIGN SPEC**

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.

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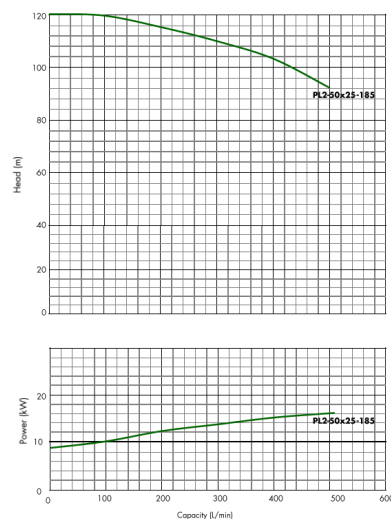
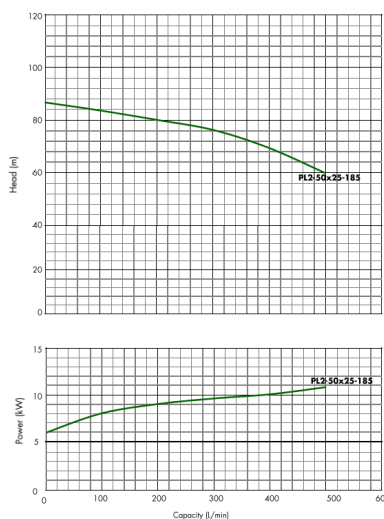
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RANGE CURVES

Performance curve family for the magnetic drive PL2 Series.

INFORMATION

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



TECHNICAL SPECIFICATION

	PL2	
Frequency	50Hz	60Hz
Max. Capacity	500L/M	500L/M
Max. Total Head	85m	121m
Suction & Discharge	50 x 25	
Temperature Range	-80°C - 280°C	
Specific Gravity	<2	
Viscosity	<300mPa.s (cp)	
Design Pressure	1.6MPaG	
Flange Standard	ANSI Class 150 / JIS 10K / DIN PN16	
Motor Output	11KW - 18.5W	
Pump Material	SUS316L (Standard) / Alloy20 (Optional) / HAS -C equivalent (Optional)	

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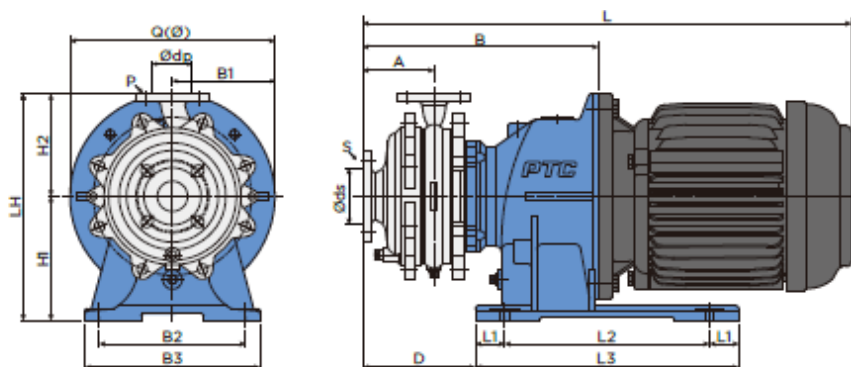
∞ RANGE DIMENSIONS

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.



Unit:mm

Model	Motor		Bore				Pump size													
	Frame Size	Output (KW)	Suct.		Disch.		LH	H1	H2	B1	B2	B3	Q (Ø)	A	B	L	D	L1	L2	L3
			d _s	S	d _p	p														
PL2-50x25-185	160L	11/15/18.5	50	*Note1	25	*Note2	387	212	175	175	250	300	350	122	402.5	*Note3	192.5	50	350	450

*Note1.&Note2. flange connection for ANSI Class 150 / JIS 10K / DIN PN16

*Note3. Dimension of (L) will differ depending on the brand and installation of the motor

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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.



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.



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.



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

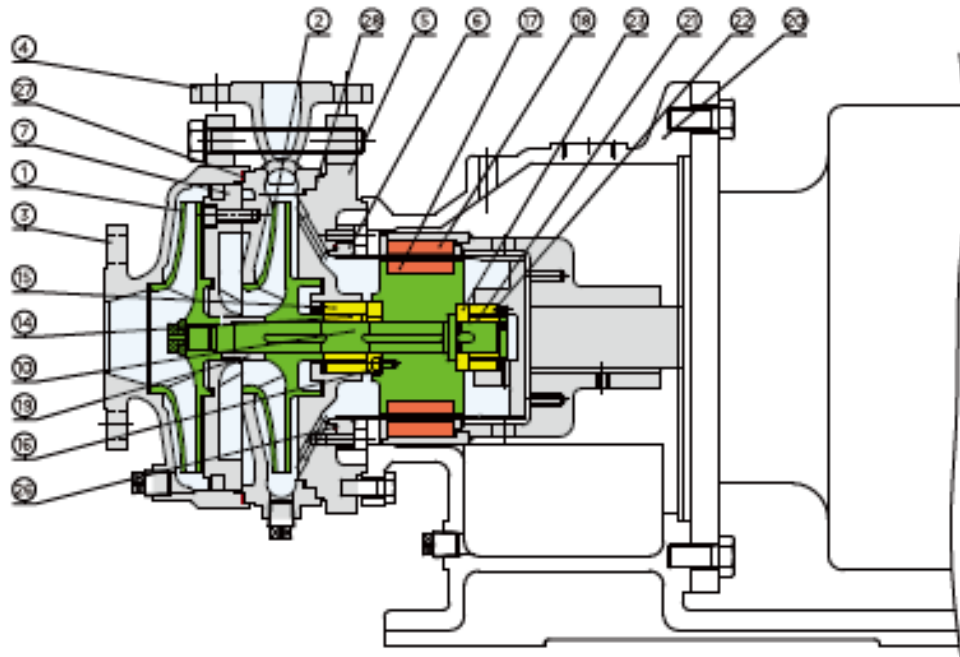
For more specific model curves, general arrangement drawings or exploded views of individual models, please visit **www.crestpumps.co.uk**.

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
1	1ST IMPELLER	SUS316L
2	2ND IMPELLER	SUS316L
3	SUCTION CASING	SUS316L
4	DISCHARGE CASING	SUS316L
5	CASING COVER	SUS316L
6	REAR CASING	SUS316L
7	DIFFUSER	SUS316L
10	SHAFT	SUS316L
14	SLEEVE	SiC
15	BEARING	SiC
16	THRUST RING	SiC
17	INNER MAGNET	SUS316 + RARE EARTH
18	OUTER MAGNET	SS400 + RARE EARTH
19	DISTANCE PIECE	SUS316L
20	FRAME ADAPTER	FC25
21	SLEEVE	SiC
22	BEARING	SiC
23	THRUST RING	SiC
26	O-RING	PTFE
27	GASKET	PTFE
28	GASKET	PTFE

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