

PC PUMP RANGE

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



- ∞ CAPACITY <3200L/MIN
- ∞ HEAD <220 Metres
- ∞ SEALLESS LEAK FREE DESIGN
- ∞ STAINLESS STEEL BUILD
- ∞ CORROSION RESISTANT
- ∞ UK ASSEMBLY

Part of the **PTCX**
Pump Range



PS



PL



PM



PW



PSJ

∞ PC OVERVIEW

High capacity stainless steel magnetic drive pumps, with flow rate up to 3200 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 design to eliminate leakage problems, making sealless magnetic drive pumps an ideal choice for transferring hazardous or volatile chemicals

∞ QUICK INSTALLATION & EASY MAINTENANCE

No special tools are required to install or to disassemble. Having no mechanical seal saves time on maintenance and reduces the frequency of parts replacement and downtime.

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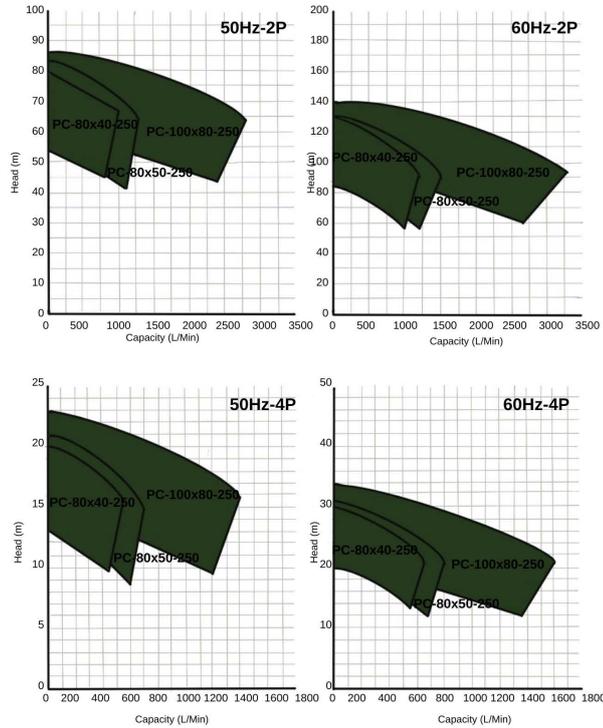
STAINLESS STEEL, **MAGNETIC DRIVE**, CENTRIFUGAL PUMPS

∞ RANGE CURVES

∞ INFORMATION

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

∞ TECHNICAL SPECIFICATION



	PC			
Frequency	50Hz (2P)	50Hz (4P)	60Hz (2P)	50Hz (4P)
Max. Capacity	2800L/M	1400L/M	3200L/M	1600L/M
Max. Total Head	87m	23m	220m	34m
Suction & Discharge	80 x 40 - 100 x 80			
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	22KW - 75KW	3.7KW - 11KW	45KW - 110KW	5.5KW - 15KW
Pump Material	SUS316L (Standard) / Alloy20 (Optional) / HAS -C equivalent (Optional)			

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∞ RANGE DIMENSIONS

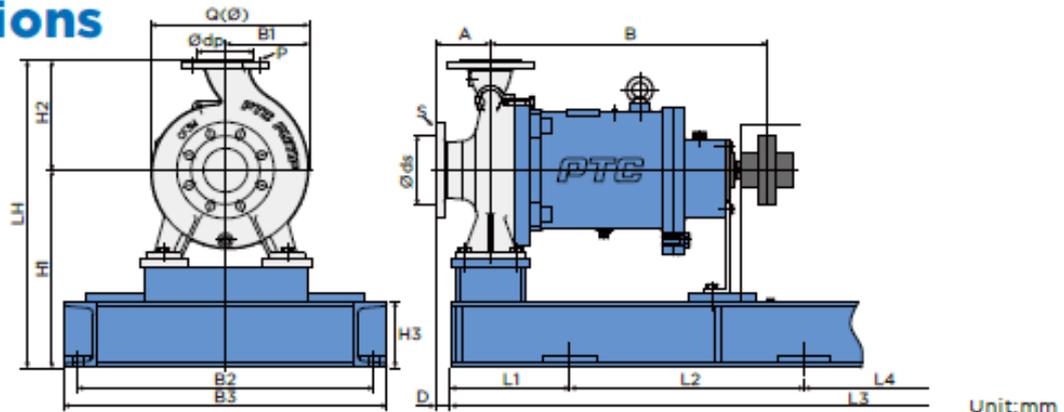
For specific 3D CAD drawings or specific pump dimensions, please contact us at info@crestpumps.co.uk or telephone +44 (0)1425 627700.

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



Model	Motor		Bore				Pump size														
	Frame Size	Output (KW)	Suct.		Disch.		LH	H1	H2	H3	B1	B2	B3	Q (∅)	A	B	D	L1	L2	L3	L4
			∅s	S	∅p	P															
PC-80x40-250	112M/132S	3.7/5.5	80	JIS 10K / DIN PN16	40	JIS 10K / DIN PN16	565	340	225	125	172	600	660	333	125	625	40	240	940	1450	-
	180M/200L	22/45			50		605	380	225	125	175	600	660	336.5	125	625	40	240	940	1450	-
PC-80x50-250	132S/132M	5.5/7.5	80	JIS 10K / DIN PN16	50	JIS 10K / DIN PN16	605	380	225	125	175	600	660	336.5	125	625	40	240	940	1450	-
	180L/225S	30/55			80		700	450	250	150	188	670	730	356	125	625	35	270	530	1750	530
PC-100x80-250	160M/160L	11/15	100	JIS 10K / DIN PN16	80	JIS 10K / DIN PN16	700	450	250	150	188	670	730	356	125	625	35	270	530	1750	530
	225S/280S	75/110			80		700	450	250	150	188	670	730	356	125	625	35	270	530	1750	530

Unit:mm

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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.

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

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

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

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.

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.

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.

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

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

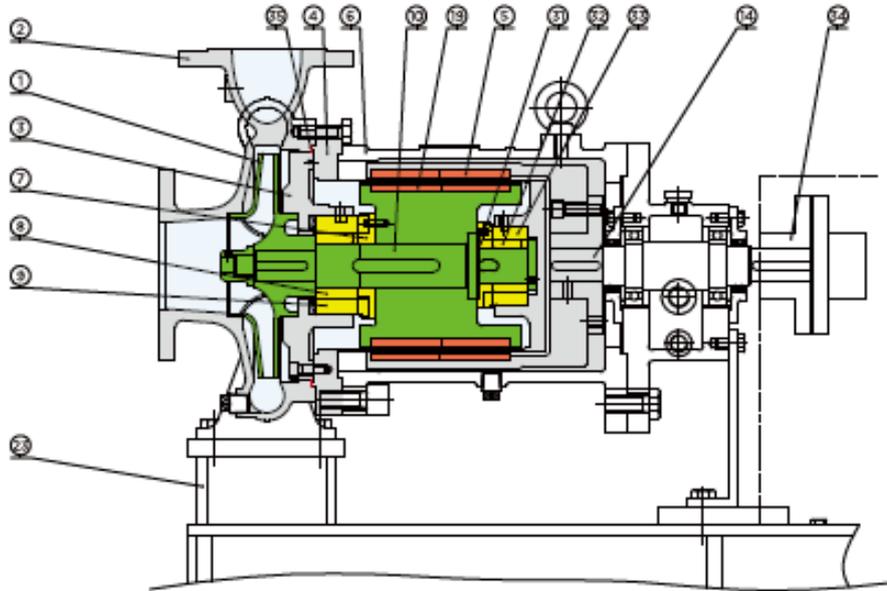
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If you need 3D CAD models of the range, please contact one of our team and we will arrange for a copy to be sent to you by email.

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PARTS LIST & MATERIAL CONSTRUCTION



MATERIAL CODE	PARTS NAME	MATERIAL
1	IMPELLER	SUS316L
2	FRONT CASING	SUS316L
3	CASING COVER	SUS316L
4	REAR CASING	SUS316L
5	OUTER MAGNET	SS400 + RARE EARTH
6	FRAME ADAPTER	FC25
7	THRUST RING (F)	SiC
*	SLEEVE (F)	SiC
+	BEARING (F)	SiC
# ¹¹	SHAFT	SUS316L
#&	OUTER MAGNET SHAFT	S45C
# +	INNER MAGNET	SUS316 + RARE EARTH
\$%	BASEPLATE	SS400
%#	THRUST RING (R)	SiC
%\$	SLEEVE (R)	SiC
%&	BEARING (R)	SiC
%&	COUPLING	S45C
%	GASKET	PTFE