

PM PUMP RANGE

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



- ∞ CAPACITY <81L/MIN
- ∞ HEAD <30 Metres
- ∞ SEALLESS LEAK FREE DESIGN
- ∞ STAINLESS STEEL BUILD
- ∞ TOTAL CORROSION RESISTANCE
- ∞ UK ASSEMBLY

Part of the **PTCX**
Pump Range



PS



PL



PW



PSJ



PSO

∞ PM OVERVIEW

The PM series is the smallest among stainless steel magnetic drive pumps and often used in equipments or small laboratories. Operating temperature can be handled from minus 80 degree to 280 degree Celsius.

Stainless Steel magnetic drive pumps, with flow rate up to 81 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 frequency for parts replacement and maintenance.

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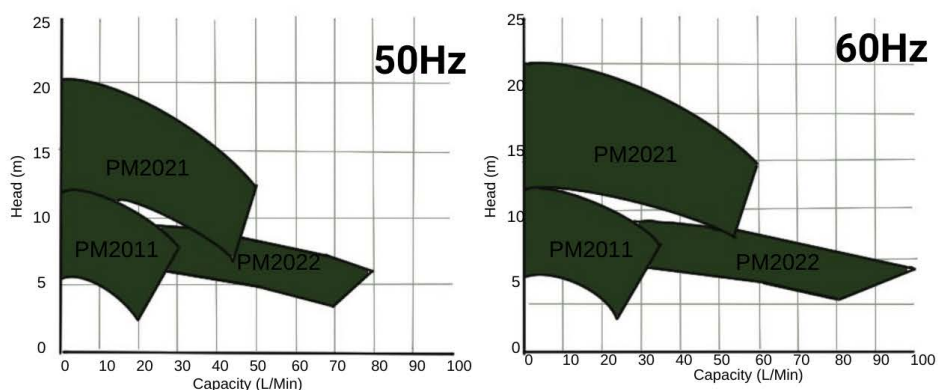
RANGE CURVES

Performance curve family for the magnetic drive PM Series.

INFORMATION

For more specific model curves, general arrangement drawings or exploded views of individual models, please visit

www.crestpumps.co.uk.



TECHNICAL SPECIFICATION

	PM	
Frequency	50Hz	60Hz
Max. Capacity	81L/M	81L/M
Max. Total Head	22m	30m
Suction & Discharge	15 x 13 - 25 x 20	
Temperature Range	-80°C - 280°C	
Specific Gravity	<2	
Viscosity	<100mPa.s (cp)	
Design Pressure	0.6MPaG (*PM2021:1.0MPaG*)	
Flange Standard	R Thread Type	
Motor Output	90W - 550W	
Pump Material	SUS316L (Standard) / Alloy20 (Optional) / HAS -C equivalent (Optional)	

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RANGE DIMENSIONS

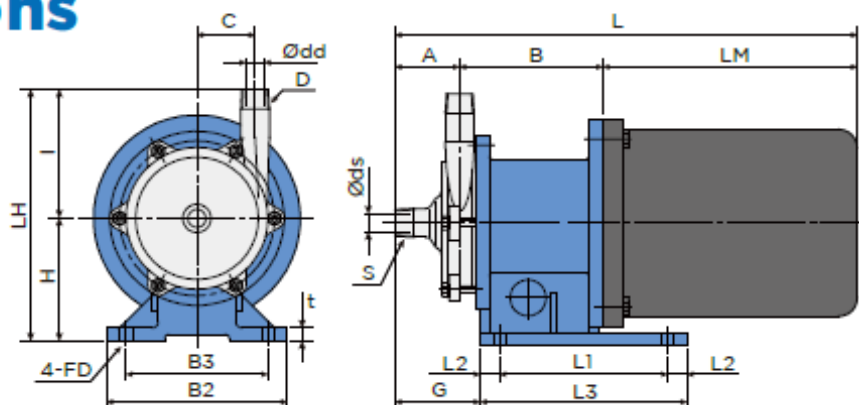
For specific 3D CAD drawings or specific pump dimensions, please contact us at info@crestpumps.co.uk or telephone +44 (0)1425 627700.

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 (W)	Suct.		Disch.		A	B	C	H	I	LH	LM	L	G	L1	L2	L3	B2	B3	t	FD
			ds	S	dd	D																
PM2010	—	90/120	15	R1/2	13	R1/2	45	118	37	62	70	132	(141)	*Note1.	60	70	15	100	110	90	8	Ø10
PM2011	63M	200	15	R1/2	15	R1/2	45	104	45	95	100	195	(207)		61	130	15	160	140	110	10	Ø10
	71M	400						111					(225)		69	130	15	160	140	110	10	Ø10
PM2021	71M/71S	400/550	20	R3/4	20	R3/4	50	111	50	95	120	215	(225)		78	130	15	160	140	110	10	Ø10
PM2022	71M/71S	400/550	25	R1	20	R3/4	60	113	45	95	100	195	(225)	78	130	15	160	140	110	10	Ø10	

*Note1. 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

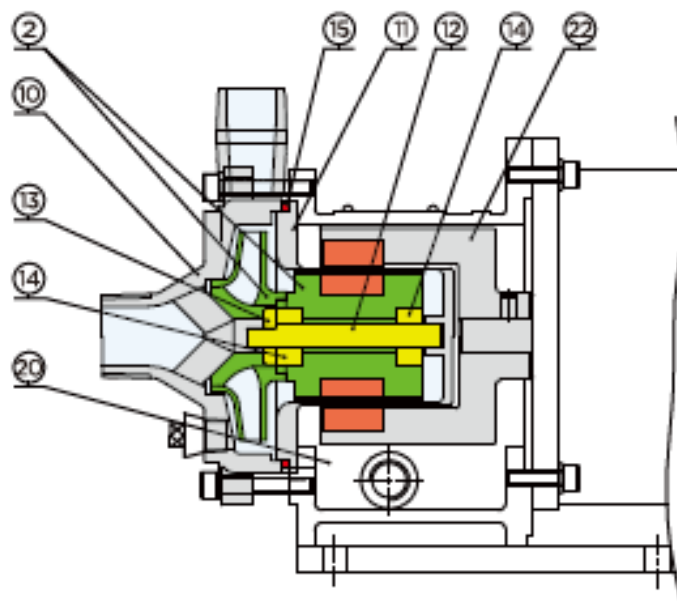
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If you need 3D CAD models of the range, please contact one of our team and we will arrange for a copy to be sent to you by email.

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PARTS LIST & MATERIAL CONSTRUCTION



MATERIAL CODE	PARTS NAME	MATERIAL
2	IMPELLER + INNER MAGNET	SUS316L + RARE EARTH
10	FRONT CASING	SUS316L
11	REAR CASING	SUS316L
12	SHAFT	SiC
13	THRUST RING	SiC
14	BUSHING	SiC
15	O-RING	PTFE
20	FRAME ADAPTOR	FC25
22	OUTER MAGNET	SS400 + RARE EARTH