

PSJ PUMP RANGE

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



- ∞ CAPACITY <450L/MIN
- ∞ HEAD <53.1 Metres
- ∞ SEALLESS LEAK FREE DESIGN
- ∞ STAINLESS STEEL BUILD
- ∞ TOTAL CORROSION RESISTANCE
- ∞ UK ASSEMBLY

Part of the **PTCX**
Pump Range



PS



PL



PM



PW



PSO

∞ PSJ OVERVIEW

The PSJ series is in form of a semi-jacketed type which is used to maintain process temperature as well as being high efficiency.

High capacity stainless steel magnetic drive pumps, with flow rate up to 450 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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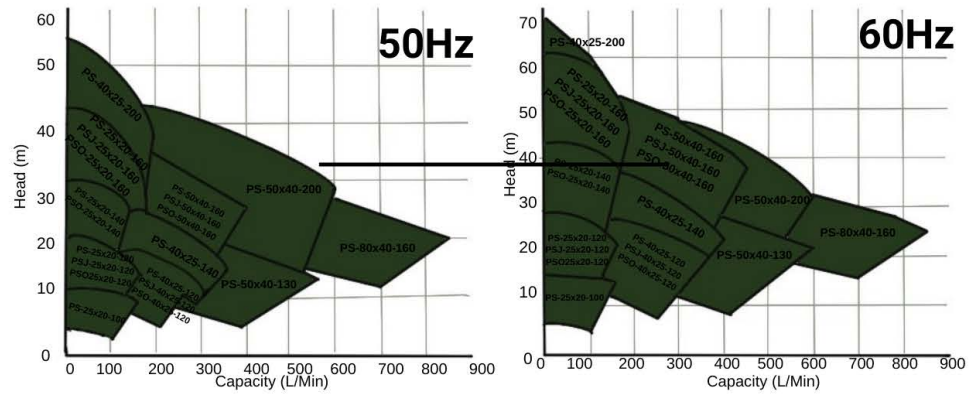
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RANGE CURVES

Performance curve family for the magnetic drive PSJ Series.

INFORMATION

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



TECHNICAL SPECIFICATION

	PSJ	
Frequency	50Hz	60Hz
Max. Capacity	400L/M	450L/M
Max. Total Head	36.8m	53.1m
Suction & Discharge	25 x 20 - 50 x 40	
Temperature Range	-80°C - 280°C	
Specific Gravity	<2	
Viscosity	<300mPa.s (cp)	
Design Pressure	1.0MPaG	
Flange Standard	ANSI Class 150 / JIS 10K / DIN PN16	
Motor Output	0.75KW - 3.7W	
Pump Material	SUS316L (Standard) / Alloy20 (Optional) / HAS -C equivalent (Optional)	

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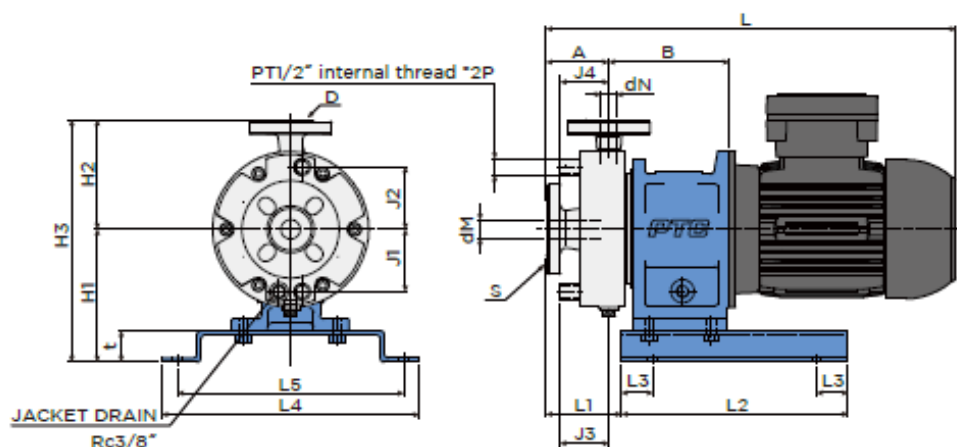
RANGE DIMENSIONS

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.		A	B	H1	H2	H3	L	L1	L2	L3	L4	L5	t	J1	J2	J3	J4	
			dM	S	dN	D																	
PSJ-25x20-120	80	0,75	25	ANSI Class 150 / JIS 10K / DIN PN16	20	ANSI Class 150 / JIS 10K / DIN PN16	80	154	170	140	310	*Note1.	81	290	40	330	140	40	80	80	63	63	
	90S/90L	1.5/2.2					40	25	95	158 168	190		150	340	97	290 320	40	330	140 120	40	90	90	63
100L/112M	3/4	25							20	85	151 161		190	160	350	83	290 320	40	330	140 120	40	100	100
90S/90L	1.5/2.2						50	40		85	152 162		190	170	360	84	290 320	40	330	140 120	40	105	105
100L/112M	3/4	PSJ-50x40-160	90L		2,2				100L/112M	3/4													

*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

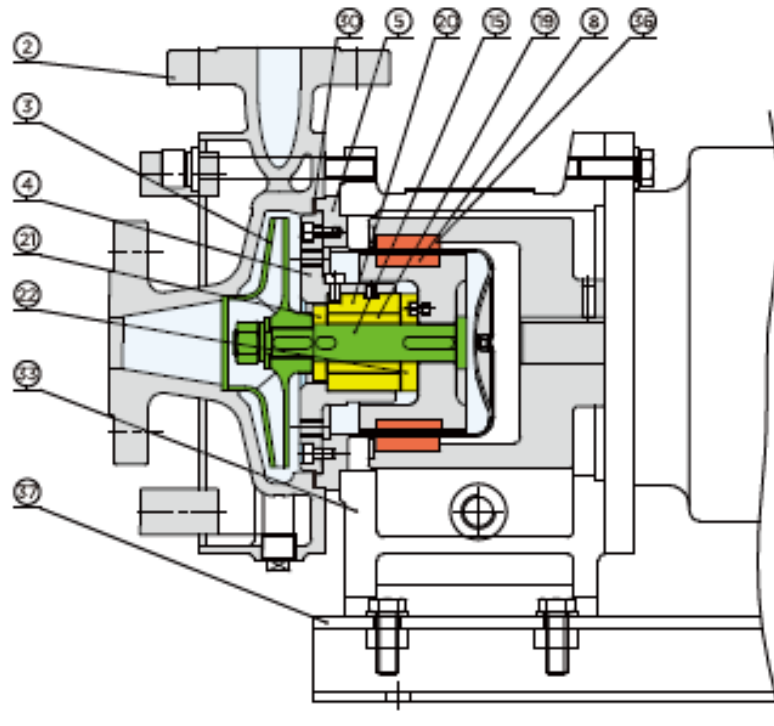
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If you need 3D CAD models of the range, please contact one of our team and we will arrange for a copy to be sent to you by email.

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PARTS LIST & MATERIAL CONSTRUCTION



MATERIAL CODE	PARTS NAME	MATERIAL
2	FRONT CASING	SUS316L
3	IMPELLER	SUS316L
4	CASING COVER	SUS316L
5	REAR CASING	SUS316L
8	INNER MAGNET	SUS316L + RARE EARTH
15	SHAFT	SUS316L
19	SLEEVE	SiC
20	BEARING	SiC
21	THRUST RING (A)	SiC
22	THRUST RING (B)	SiC
30	GASKET	PTFE
33	FRAME ADAPTER	FC25
36	OUTER MAGNET	SS400 + RARE EARTH
37	BASEPLATE	SS400