



**HYDRO
PROKAV**

An Ingersoll Rand Business

Permanent Magnetic Levitation Drive Progressive Cavity Pump



MaglevDrive PCP



About HYDRO PROKAV

Customized Solution for Your Needs

MaglevDrive is HP's solution for zero leakage progressive cavity pumps. The design presented eliminates the need for dynamic mechanical sealing that are prone to wear and leak. The mechanical seals, be it metallic or elastomeric construction tend to wear out upon continuous usage resulting in leakage of fluid handled. In case of hazardous and corrosive fluids leakage can be very alarming both for humans and the environment. The replacement of these mechanical seals can be time consuming and shall lead to prolonged machine downtime and lesser total cost of ownership.

MaglevDrive's seal-free design promotes zero leakage & contamination. It leverages the non-contact magnetic coupling technology to establish a permanent static seal that effectively contains hazardous fluids from leaking into the environment. The cutting-edge design, eliminates the need for frequent seal replacement, proving to be a practical & profitable option for the users, considering the life of the plant.

Lean on us
to help you make life better



12500+
World Wide
Customers

10000+
Pumps Delivered
Over the year

47+
Countries

400+
Experienced
Employee

Key Features



Compact Design



Zero leak Sealing

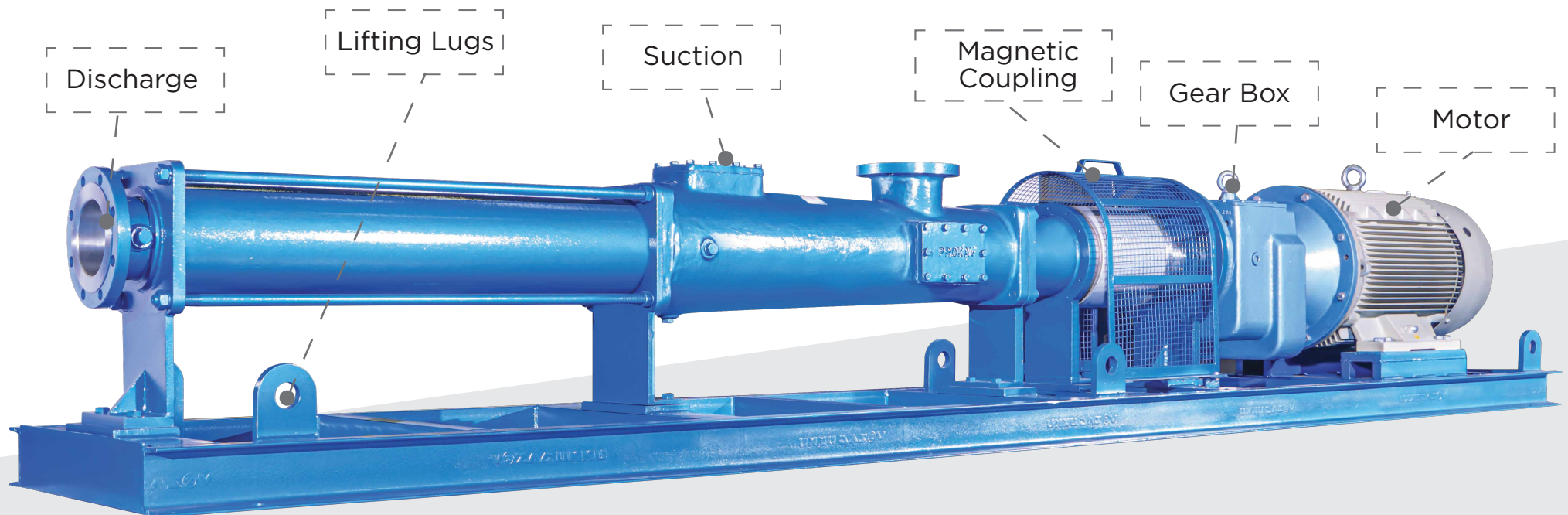


ATEX designs for Hazardous liquids

Typical Applications

MaglevDrive series of PCPs are ideal for pumping:

- Paints
- Corrosive Solvents
- Sodium Hypochlorite
- Hazzardous & Noxious fluids like Ammonia, Fecl3, cyanide etc.,



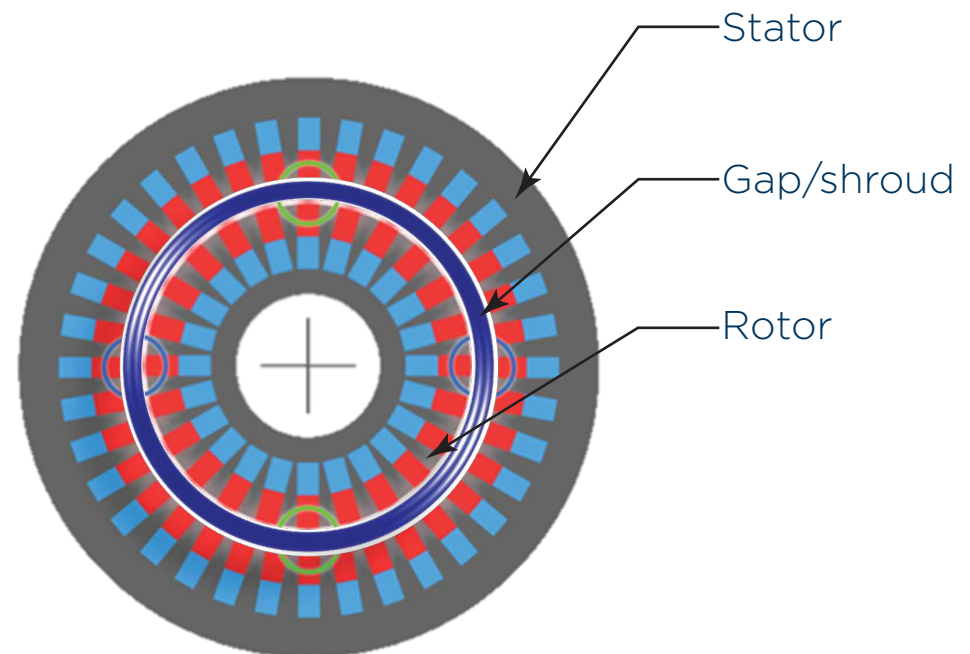
Standard Permanent MagLev Offering

MaglevDrive PCP leverages the magnetic levitation principle to transfer the torque from the drive system to the pump rotor without physical contact preventing wear and tear in the coupling. There are two arrays of magnets each on the driver and driven side separated by an insulator called containment shell. This innovative design ensures that the fluids are firmly contained within the pump using the static containment shell, avoiding leakages and making them ideal for handling hazardous and toxic fluids. . The magnetic coupling acts both as the drive coupler and the seal there by eliminating the need for any separate sealing system.



Benefits

- Improved total cost of ownership
- 100% uptime due to seal-free design
- Zero leakage & contamination
- Easy to operate with less manpower
- Improved product lifetime
- Ideal for food applications where flushing is required
- Eliminates the need for mechanical seal replacement
- Immediate delivery of off the shelf MaglevDrive models
- Bespoke engineer-to-order designs
- Strong fluid containment avoids accidents



Material of Construction:

Magnets: Samarium cobalt (max temp. 300 °C) / Neodym-iron-boron (max temp. 150 °C)

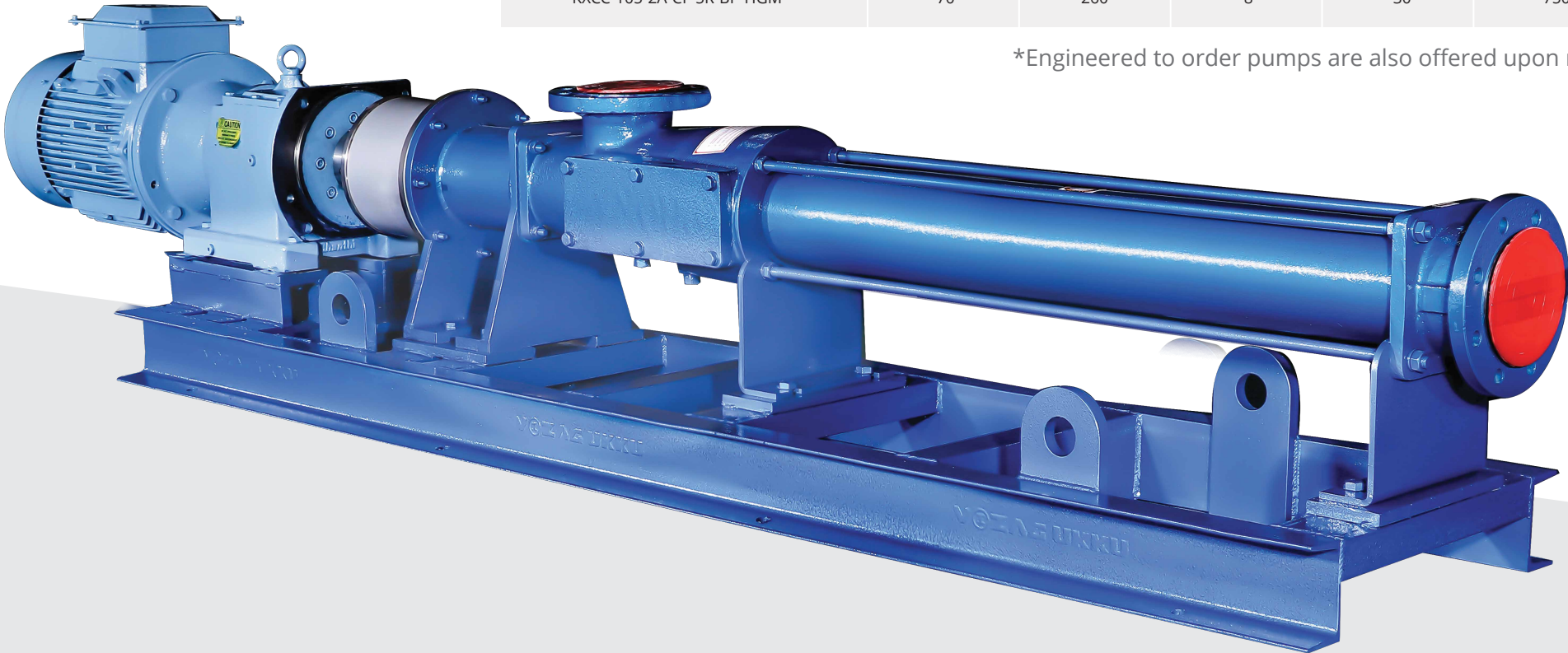
Wettable Housing components: Steel, SS, Hastelloy

Containment Shroud: SS, Hastelloy, Peek & Ceramic

SPECIFICATIONS

| Pump Model | Flow | Speed | Discharge pressure | Drive Power | Viscosity |
|--------------------------|--------------------|-------|--------------------|-------------|-----------|
| | m ³ /hr | rpm | bar | kW | cP |
| KXCC-53-2A-CF-5R-BP-HGM | 5 | 220 | 8 | 3.7 | 10,000 |
| KXCC-63-2A-CF-5R-BP-HGM | 10 | 260 | 9 | 5.5 | 5000 |
| KXCC-76-2A-CF-5R-BP-HGM | 30 | 260 | 6 | 11.0 | 600 |
| KXCC-90-2A-CF-5R-BP-HGM | 30 | 220 | 11 | 18.5 | 1000 |
| KXCC-105-2A-CF-5R-BP-HGM | 70 | 260 | 8 | 30 | 7500 |

*Engineered to order pumps are also offered upon request



5

Shaft Joint Types

9

Product Groups

Upto
8

Rotor Stages



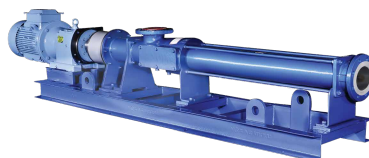
KX - A SERIES



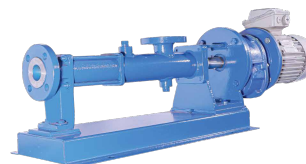
KX - B SERIES



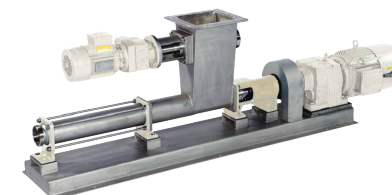
KX - VF SERIES



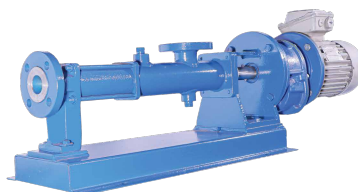
KX - F SERIES



KXCC - SERIES



KX-BB SERIES



KX - PK SERIES



KX - W SERIES



AP/CP SERIES

OPERATING PARAMETERS

FLOW RATE

0.2 TO 550 M3/H

PRESSURE

UPTO 54 BAR

TEMPERATURE

-20°C UP TO 200°C

VISCOSITY

<1 CST UPTO 100,000 CST

MAX. SOLIDS SIZE

≤ 25MM (HARD) & ≤ 100MM (SOFT)

Hydro Prokav (HP) is a leading flow solutions provider in positive displacement pump segment using progressive cavity pump technology. Since 2022, HP has been part of the Ingersoll Rand Group, a global supplier of mission-critical flow and industrial solutions, consisting of more than 40 renowned brands. HP is proud to have more than 12,000 happy and satisfied customers globally. Our pumping solutions typically focus on conveying low to highly viscous, aggressive or abrasive media with low pulsation rates.





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