

Stainless steel vertical cantilever pump



The Packo ICP-IM is our Range of Vertical Process Cantilever Pumps.

They are designed for installation in a sump or tank, having only the casing and impeller submerged. They are used in applications with liquids which are difficult to seal with a mechanical shaft seal and when no support bearing inside the liquid is allowed, such as abrasive slurries, frying oils, metal finishing coatings.

ICP-IM pumps are using the standard Packo ICP pump hydraulic components. They are available with closed, open or vortex impellers to meet the requirements of a wide range of different applications.

Manufacturing takes place at the ISO 9001-certified Packo plant in Diksmuide Belgium.



**SERIES
ICP2-IM & ICP3-IM**

Design features

Vertical Process Cantilever Pumps, specially developed for liquids which are difficult to seal. Corrosion resistant, leak proof and maintenance free.

Cantilever shaft

Tapered design. The shafts are machined and finished throughout the entire length so that the total run out at the impeller bore is minimal.

Optional base plate in stainless steel

No bottom bearings

No oil or water pipes required to lubricate submerged bearings.

Seal less pump

There are no seals, submerged bearings or bushes exposed to the slurry, thereby reducing downtime and operating costs. The pumps are capable of operating dry with no adverse effects.

Renewable shaft "labyrinth" sleeve: Minimizes blow-back of liquid around shaft. Provides added pump shaft protection against abrasives

Standard IEC motors

Pumps can be factory fitted with motors with special characteristics (special voltage, integrated frequency converter etc.)

High strength column support pipe

Rigidly maintains alignment between motor and casing. Protects pump shaft.

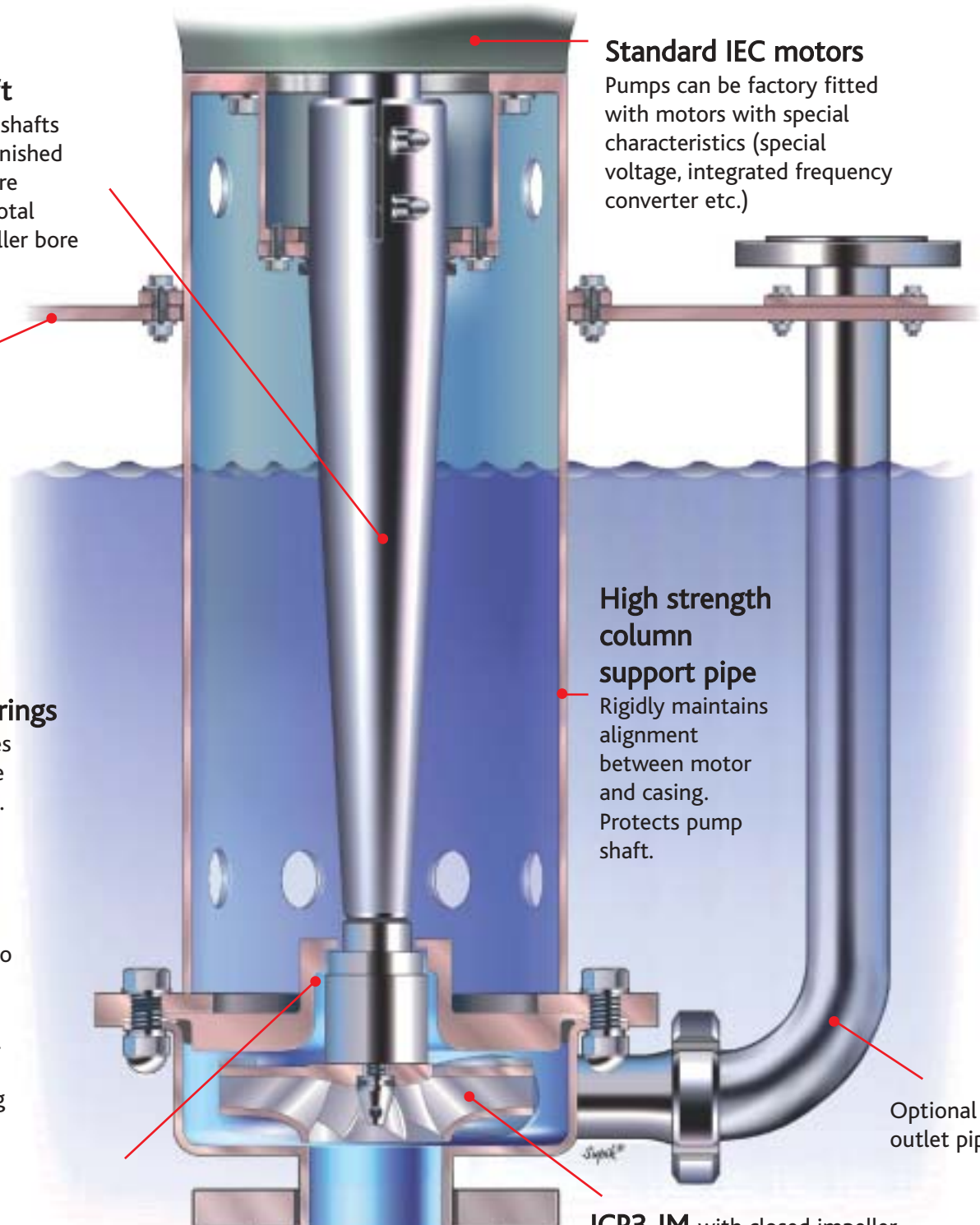
Optional outlet pipe

ICP3-IM with closed impeller

ICP2-IM with open impeller
(not shown)

IFF-IM

With (semi-) open recessed impeller for liquids containing solids
(not shown)



Wide range of applications

✓ Corrosion resistance and resistance to product adhesion

All stainless steel parts are electropolished

Electropolishing leads to an increased **corrosion resistance** due to the higher percentage of chromium and nickel at the surface. It also leads to extremely low microroughness, resulting in an increased **resistance to the adhesion of products**.

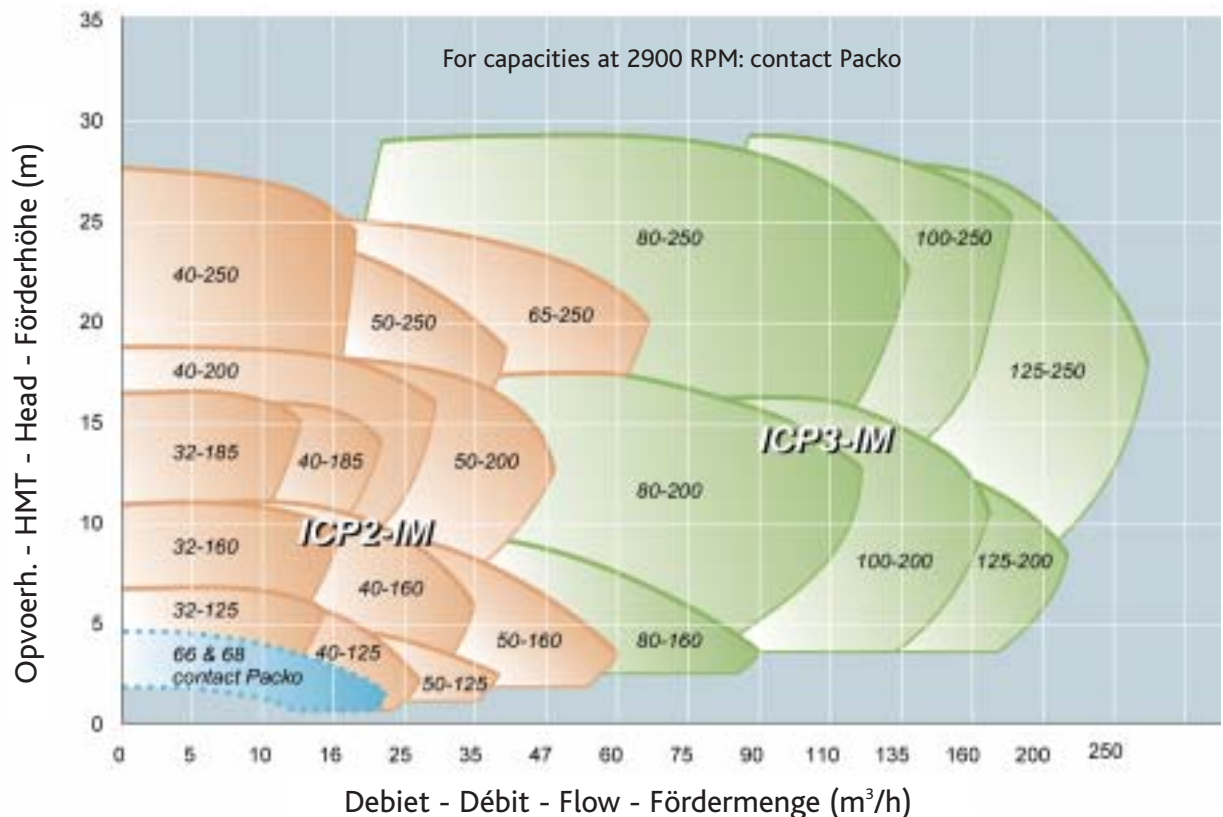
Also the internal tension concentrations are relieved, which strongly reduces the possibility of tension corrosion.

✓ Fields of application

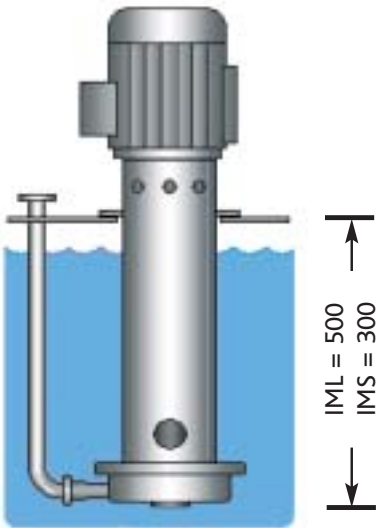
- Metal Finishing Industry
- Industrial Spray Washers
- Cleaning, Degreasing, Phosphating, Pickling
- Spray Booths
- Paint Systems
- Coolant Systems
- Filtration Systems
- E-Coat Paint Systems
- Chemical Industry
- Industrial Wastes
- Sanitary Wastes
- Process Wastes
- Paint
- Acids - Corrosive Liquids
- Clear And Polluted Liquids
- Flood Control
- Condensate
- Hot oil (frying oil)

✓ Capacity

Cantilever Pumps - Performance curves at 1450 RPM



Versions



1. Basic version (code O)
with base plate and column pipe



2. Version (code V)
without column pipe



3. Version (code W)
without base plate and
column pipe

Special Version



4. Version **IMO**, in which
the pump is placed outside
the vessel.
A bypass connection (1)
must be utilised as an
overflow. On the picture you
can also see an additional
cleaning connection (2) (optional).



5. Version **XL**. For applications where longer pumps are
required Packo can supply pumps up to 1,5 m shaft length,
with shaft support bearing at impeller end.