



*Specialist for Pumping Technology*

INNOVATION  
EFFICIENCY  
QUALITY



**IPP**

Horizontal Process Pump

## IPP Process Pump

The IPP pump is a semi open impeller process pump, designed to meet dimensionally the ANSI/ASME B73.1-2001 specifications.

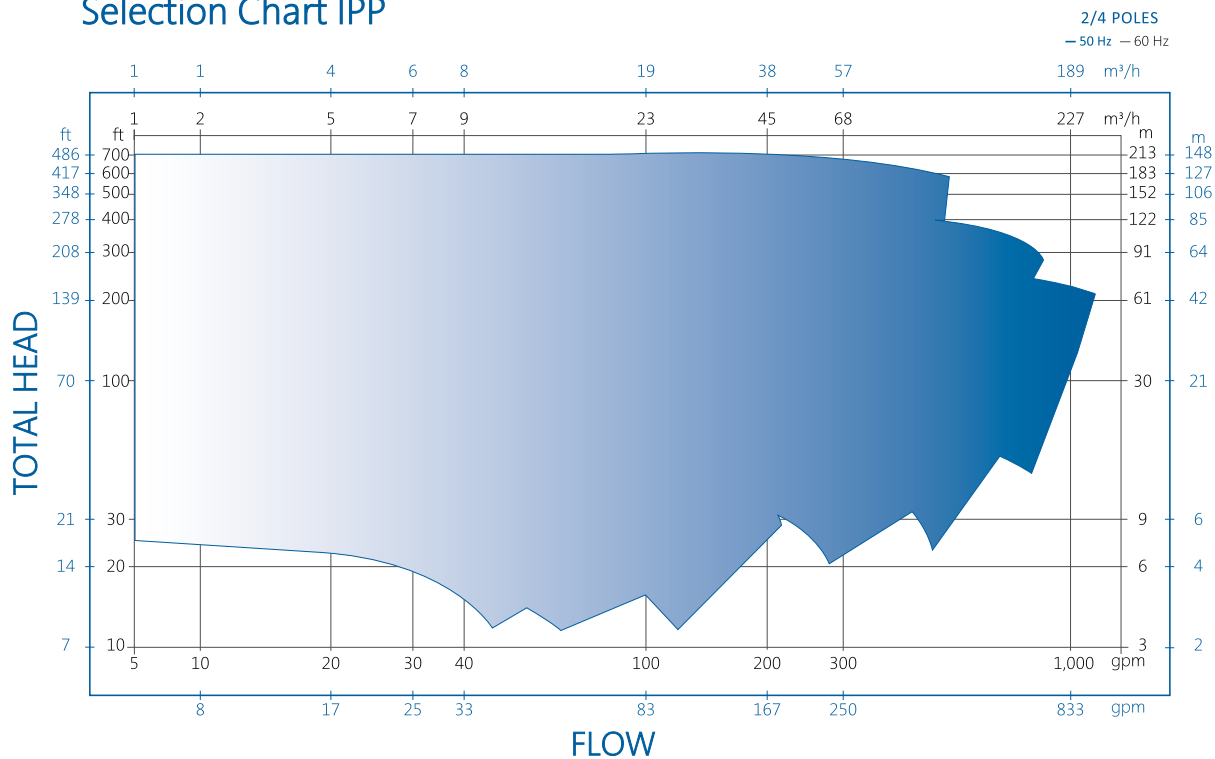
This versatile pump line is offered in a wide range of constructive materials that allow the pump to work with many different kinds of fluids, from corrosive and non-corrosive liquids ranging from water to hydrocarbons or slurries.

The productivity-oriented design of the pump reduces the maintenance operation times by minimizing the downtime breaks and the maintenance costs.

Not only does the design allow the customer an easy drop-in pump exchange, its external adjustable impeller and its back pull-out design proves this pump to be an ideal solution for low maintenance processes.

## Performance Range

Selection Chart IPP



## External Adjustable Impeller

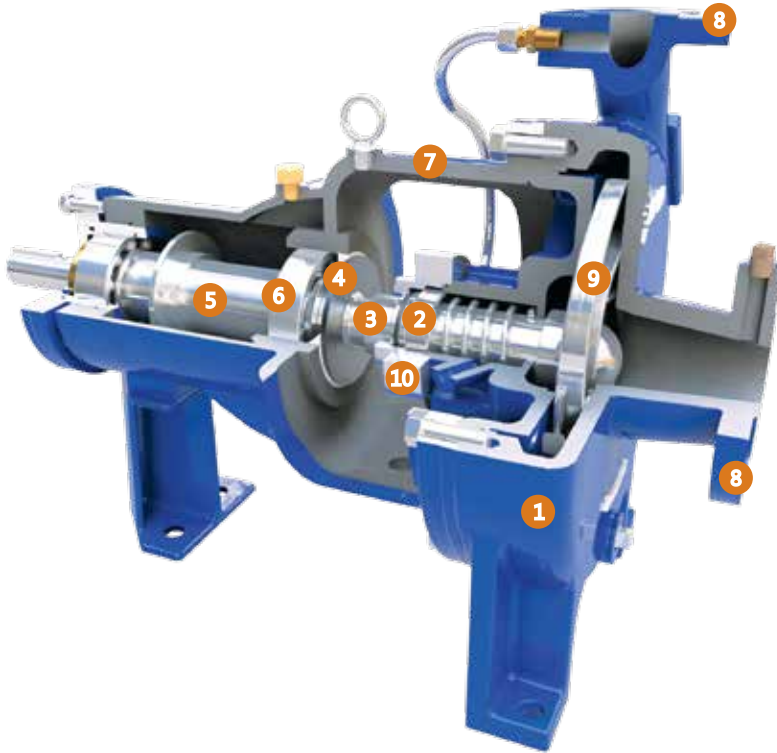
The impeller is adjustable externally by a mechanism that allows correcting the impeller gap, reducing maintenance time and costs.



## OPTIONAL FEATURES

- Convertible Frame: Grease lubricated cooling
- Seals According to Customer
- Requirements: Packing Seal, Cartridge Mechanical Seal, and Mechanical Seals Type 1 and 9
- Replaceable Standard Shaft Sleeve

### Characteristics



-Images for illustration purposes not actual construction.

### PERFORMANCE DATA

Capacity	up to 227 m <sup>3</sup> /h	1,000 U.S. gpm
Head	up to 128 m	420 ft
Pressure	up to 26 bar	375 psig
Temperature	0 °C to 260 °C	32 °F to 700 °F

Note: For pump operation outside this range, please contact a Ruhrpumpen representative.

- 1 CASING. Top centerline discharge, foot mounted. Self-venting.
- 2 SEAL. Packing seal as standard. Mechanical Seal Type 1 and 9 as optional.
- 3 SHAFT SLEEVE. Hook type free to expand with temperature variation. Extends through gland. With sleeve construction, shaft is isolated from contact with liquid by Teflon coated O-ring. Keyed to shaft.
- 4 SEALED BEARING CHAMBER. Inboard and outboard seals protect bearing reservoir from contamination by moisture or outside liquids.
- 5 PUMP SHAFT. Heavy duty shaft standard for minimum deflection (Maximum .002").
- 6 SHAFT BEARINGS. One-piece shaft. Inboard bearing single row deep groove. Outboard bearing locked double-row deep groove angular contact for lowest end play.
- 7 FRAME. Rugged one-piece frame precision bored from one end for perfect concentricity. Full 360 degree protected register direct-fit to casing assures positive alignment of rotating assembly.
- 8 FLANGES. Raised Face and Flat Face flanged connections. Discharge flange sizes 6" to 12".
- 9 IMPELLER. Semi open balanced type with large flow passages contoured for outstanding solids handling and low NPSH. Repelling vanes reduce stuffing box pressure and prevent solids from accumulating behind the impeller.
- 10 PACKING BOX COVER. Packed box has 2-bolt plain or quench gland and in-out connections to lantern ring. Sealed box has 4-bolt seal flanges with full 360 degree register fit protected by confined gasket.

### DESCRIPTION

- Horizontal overhung single stage
- Semi opened impeller
- ANSI/ASME B73.1-2001 dimensionally compliant
- Foot mounted
- End suction configuration
- Radially split
- Flanged connections
- Clockwise rotation
- Modular design concept
- Back Pull-Out configuration

### APPLICATIONS

- Chemical
- Pharmaceutical
- Metal Workings
- General Industry
- Automotive
- Food Processing
- Power Generation
- Water & Waste Treatment
- Mining
- HVAC

### BENEFITS

- Easy Replacement
- Parts Interchangeability
- Less maintenance period through Double Row Bearings
- Alignment Assured
- Wide Range Liquid Handling

## Other Ruhrpumpen Products



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### ANSI Horizontal Process Pump



CPP - Single Stage end suction horizontal centrifugal pump, enclosed impeller, radially split casing with flanged connections. Petrochemical, Oil & Gas, Steel Industry, Automotive, Food Processing, Power Generation, Pharmaceuticals, Water Treatment, General Process.

### ANSI Vertical In-Line Close Coupled Pump



IIL - Back pull-out design, CI/SS impeller, packing box cover, casing-flanged suction, front wear rings, manual vent plug. Chemical, Petrochemical, Petroleum, Coal, Fiber, Pulp and Paper, Food and Beverage, Pharmaceutical Fats and Oils, Soap, Paint, Automotive.

### Vertical In-Line Pump Rigid Coupled Pump



IVP - Split-coupling, flanged suction and discharge on common centerline, up to 350 psi, fully enclosed impeller with hydraulic balance which prevents vibration, radially splitcase. Fire Service, Air Conditioning Systems, Condensed Water, Ice Water, Service Water, Ocean Water, Building Water Supply Systems.

### Horizontal Split Case Pump Single Stage



HSD - Single stage double suction horizontal centrifugal pump, foot mounted, oil or grease lubricated bearings. Dewatering, Mining, Water, Fire Service, Cooling Towers, Municipal, Oil Process, Petrochemical, Sugar Industry, Paper Industry, Pipeline, Power Generation.

## RUHRPUMPEN PLANTS

-  USA, Tulsa & Orland
-  MEXICO, Monterrey
-  BRAZIL, Rio De Janeiro
-  ARGENTINA, Buenos Aires
-  GERMANY, Witten
-  EGYPT, Suez
-  INDIA, Chennai
-  CHINA, Changzhou

More Information:

