RUHRPUMPEN

MPP

MINING PROCESS PUMP

Advanced pumping solutions to keep mines moving

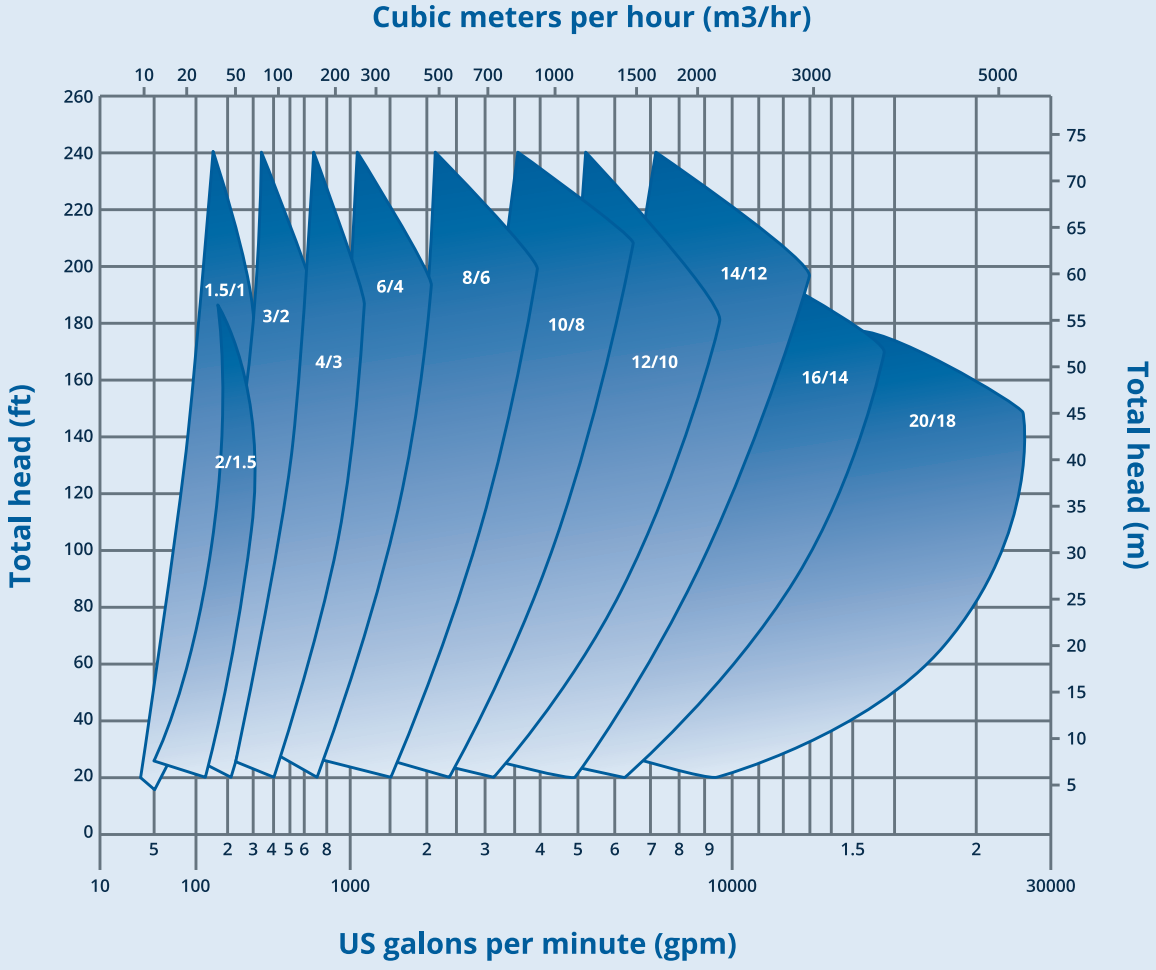
The handling of slurries in mining operations is an excruciating application due to erosion and abrasion, with major impact on plant productivity and efficiency. It is important to make good choices when selecting pumps and their components to avoid costly downtimes and repairs.

As a world leader in pumping technology, Ruhrpumpen has focused on solving these problems by developing tailor-made pumping systems that can handle the toughest, high-wear applications.

Our robust, heavy-duty pumps have significantly lower operating and maintenance costs and offer outstanding value in terms of initial investment. From product selection and technical support to spare parts and maintenance services; everything can be matched for the customer's specific application.

Ruhrpumpen's quality program and in-house foundry, along with the latest testing equipment ensure that our pumps will provide long operating life, even under the most severe conditions.

Performance chart



The MPP mining process pump, engineered for the long run

The Ruhrpumpen **MPP** line of horizontal, mining process pumps, is designed to transport heavy abrasive slurry with high concentration of solids found in mining and other industrial applications.

It has been engineered considering historic field experience together with sophisticated computer-based design and advanced analysis techniques to create the latest in slurry pumping technology.

Applications

The **MPP** has been designed for safe and trouble-free operation in the most difficult processes and environments found in the following industrial applications:

- Mining and mineral processing
- Mill discharge
- Mine drainage
- Dredging of fine tailings ponds
- Coal
- Pumping of drilling mud
- Coarse sand
- Heavy media

Description

The MPP pump line offers high hydraulic efficiencies for optimized wear life performance in difficult solids handling applications.

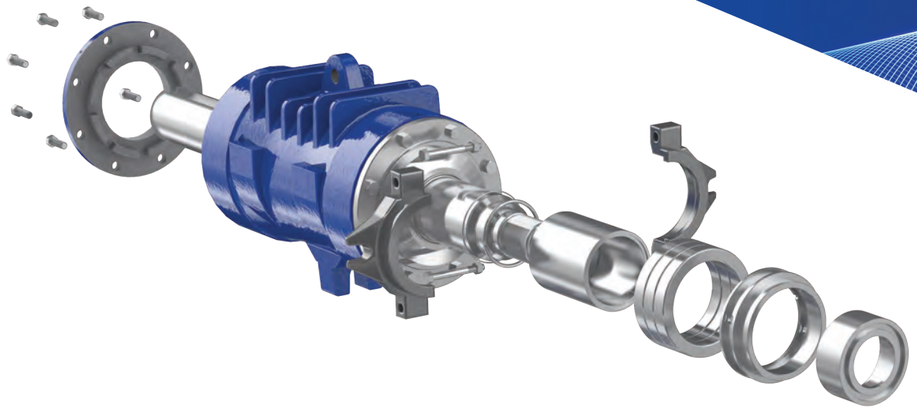
- Casing liners are available in multiple abrasion-resistant materials and surface treatments to meet any process or operational requirement.
- Modular design affords a high degree of interchangeability between metal and elastomer wear parts and mechanical components to simplify maintenance and to vary operating conditions.
- A large diameter shaft with a short overhang minimizes deflection and vibration.
- Casing halves of cast or ductile iron provide high operation pressure capabilities.
- Large diameter impeller designed for high slurry efficiency and hydraulic performance.
- External wear adjustment bolts: Allow simple and safe wear-ring adjustment.
- Optimized expelling vane design.
- Can run dry without risk of damage depending on fluid and its characteristics.
- Cartridge bearing assembly and shaft.
- Multiple sealing options.

Design Features

- Enclosed or semi-open impeller, depending on model.
- Dependint on the seal type, these can work by flushing water, grease lubrication or by an API seal flushing plan.
- Superior abrasive and corrosive wear life.

Standard Construction Materials

- Housing Material: Ductile iron.
- Impeller Material: Chrome iron or rubber.
- Bearing Housing & Pedestal: Cast iron.
- Available in rubber lined or chrome-iron configurations.
- Other materials available upon request, depending on application.



OPERATING LIMITS

Capacity	20000 gpm (4500 m^3/h)
Head	150 ft (46 m)
Pressure	300 psi (2050 kPa)
Discharge Size	1” to 18” (25 mm to 450 mm)

70 years creating the pumping technology that moves our world

Ruhrpumpen is an innovative and efficient pump technology company that offers highly-engineered and standard pumping solutions for the oil & gas, power generation, industrial, water and chemical markets. We offer a broad range of centrifugal and reciprocating pumps that meet and exceed the requirements of the most demanding quality specifications and industry standards such as API, ANSI, UL, FM, ISO and Hydraulic Institute.

Manufacturing plant & service center

Service center

Ruhrpumpen Plants

- ARGENTINA, Buenos Aires
- BRAZIL, Rio de Janeiro
- CHINA, Changzhou
- EGYPT, Suez
- GERMANY, Witten
- INDIA, Chennai
- MEXICO, Monterrey
- RUSSIA, Moscow
- UK, Lancing
- USA, Tulsa