Goulds XHD
Extra Heavy Duty World-Class Lined Slurry Pumps
Proven leadership in mining and mineral processing

Proven Leadership
• 100 years of slurry pumping experience.
• Many industry firsts including: hard metal slurry pump, rubber lined pump and expeller / dynamic seal.

Industry Leading Coverage
ITT Goulds Pumps offers the most complete line of products for the mining industry, including slurry, process and water pumps, valves, monitoring and control, and a full range of aftermarket and repair services.

Tailored Solutions
Due to our extensive portfolio for the mining industry, we can provide the right pump for our customers application, thus maximizing reliability. ITT Goulds Pumps can provide a complete solution for any pumping needs.

Global Presence
With sales offices, packaging and service centers located globally, ITT Goulds Pumps provides the coverage needed to serve our customers, whether small or multi-national companies located in any region.

ITT has provided pumping solutions to all types of mineral processing sites throughout the world for well over one hundred years.

We know that only “up-time” yields money and is paramount to our customers. ITT Goulds Pumps products are engineered to maximize up-time, by offering our customers the best and most complete solutions. Our experienced and knowledgeable team further complements our portfolio of mineral processing solutions. We maximize the performance of your processing plants from start to finish.
Goulds XHD
Extra Heavy Duty Rubber & Metal Lined Slurry Pump

Capacities to: 2950 m³/h (13,000 GPM)
Heads to: 85 m (280 feet)
Pressures to: 17 bar (250 PSIG)
Temperatures to: 120°C (250°F)

Applications:
- **Primary Metals:** SAG/Ball Mill, Cyclone Feed, Tailings
- **Mineral Processing:** Slurry Transfer, Flotation Cells, Thickener Underflow
- **Non-Metallic Mining:** Heavy Media, Cyclone Feed, Raw Coal, Clay, Soda Ash and Phosphate Slurries, Slurry Heater, Slurry Digestion, Hydrate
- **Power:** Absorber Recycle, Gas Cooling, Filter Feed, Lime and Ash Slurries
- **Sand & Aggregate:** Sand Slurries, Tailings

The Goulds Model XHD is the result of 100 years of slurry pumping experience.

The XHD incorporates the latest technology including CFD analysis to provide the next generation in severe-duty slurry pumping. Extensive “Voice of the Customer” input was utilized to ensure our customers’ most important needs were met. This includes high efficiency with extended wear life, along with maximum reliability and ease of maintenance. The XHD is designed to keep your process running.

Primary Sand Slurry Pump in an Aggregate Plant
Extra Heavy Duty World-Class Lined Slurry Pumps
Designed for the toughest slurry applications

Patented i-Alert™ vibration and bearing temperature monitor.

Easy access dual rod impeller adjustment.

Impeller release collar standard on all sizes and large access openings make maintenance easy.

Choice of packing, expeller or mechanical seals.

Bearing Isolators on both end covers keep out dirt and moisture.

Compact pedestal for rigid vibration-free support. Designed to allow retrofit to existing installations. (Patent Pending)

Fully machined slide rails for accurate shaft and bearing cartridge alignment. Designed-in rebuild capability.

Critical frame alignment surfaces protected by frame clamps for years of maintainability, extending life in corrosive mineral processing environments.

Choice of packing, expeller or mechanical seals.
Extra-thick, replaceable, hardened chrome iron liners for extended wear life.

Special tapered impeller thread to facilitate assembly and alignment. (Patent Pending)

Adjustable seal ring to maintain clearance for peak performance. Can be adjusted while in operation.

Simple wear monitor for visual inspection.

Interchangeable rubber and metal wear components

Mill discharge in silver plant
Adjustable Suction Seal Ring (Patent Pending)
Axial seal ring allows initial clearance to be maintained throughout the life of the pump:
• Allows adjustment from the suction side while online
• Maintains efficiency
• Reduces recirculation and wear
• Extends life of impeller and suction liner
• Allows for improved expeller performance by allow for front and rear impeller adjustment
• Provides ability to clamp impeller in place for bearing cartridge or wet end removal
• Provides for lower operating / maintenance costs and reduced parts usage.

Quick Change Wet End & Bearing Cartridge
Allows for removal of complete wet end as a unit, or removal of the bearing cartridge for maintenance, and/or shaft sleeve or mechanical seal replacement without disturbing the wet end or piping.

Split Stuffing Box & Gland
For quick and easy packing and lantern ring adjustment and replacement. Also allows for inspection of shaft sleeve.

Through bolting on bearing cartridge and motor mount for ease of maintenance. Ideal for pumps in corrosive environments.

Pumps shown with adaptor bases designed to replace existing pumps with no foundation work while maintaining piping centerlines.

Ball mill discharge in Phosphate plant  Tailings in a Gold processing plant
### Dimensions

<table>
<thead>
<tr>
<th>Pump Size</th>
<th>Pump Size (in)</th>
<th>Frame Size</th>
<th>Suction mm (in)</th>
<th>Discharge mm (in)</th>
<th>ANSI Flange Size</th>
<th>Suct &amp; Disch (in)</th>
<th>Dimensions (mm)</th>
<th>Shaft Dia.</th>
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</thead>
<tbody>
<tr>
<td>50</td>
<td>2.5x2-9</td>
<td>PF1</td>
<td>63 (2.5)</td>
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**Notes:**

1. All dimensions in mm
2. Not for construction, installation, or application purposes
3. Pedestal mounting holes
4. Companion flanges required

![Diagram of pump dimensions](image)
Wherever you are, we’re there too.

Reliability has no quitting time.

Building on over 160 years of Goulds Pumps experience, PRO Services provides an array of services focused on reducing equipment total cost of ownership (TCO) and increasing plant output, including predictive monitoring, maintenance contracts, field service, engineered upgrades, inventory management, and overhauls for pumps and other rotating equipment.

Your Total Solution For Equipment Life Cycle Optimization

- Design & Sourcing
- Control Solutions (PumpSmart)
- Power Ends
- Training
- Monitoring Solutions (ProSmart)
- On-board Continuous Monitoring (i-Alert)
- Reliability Engineering
- Energy Performance Services
- Pump Root Cause Analysis
- Rotating Equipment Repairs
- Field Services
- Pump Upgrades
- Parts & Inventory
- Asset Management
- Repairs & Upgrades