

 **GOULDS PUMPS**

Goulds XHD

Extra Heavy Duty World-Class Lined Slurry Pumps



ITT

ENGINEERED FOR LIFE

Proven Leader

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.

Reliability

Due to our extensive portfolio for the mining industry we can provide the right pump for your service regardless of the application, thus maximizing your reliability. ITT Goulds Pumps provides your complete pumping solution.

Global Coverage

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. The XHD, engineered to maximize up-time, expands the breadth of our mineral processing solutions portfolio and further complements the complete solutions that our experienced team can provide. We maximize the performance of your processing plants from start to finish.



Goulds XHD

Extra Heavy Duty
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)

Services:

Primary Metals: SAG/Ball Mill, Cyclone Feed, Tailings

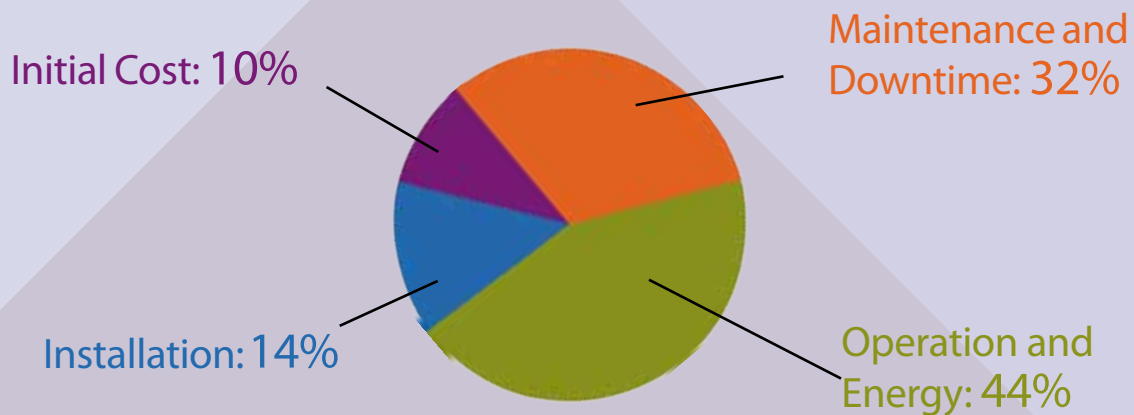
Mineral Processing: Slurry Transfer, Flotation Cells, Thickener Underflow

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

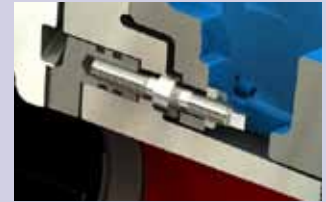
Total Cost of Ownership



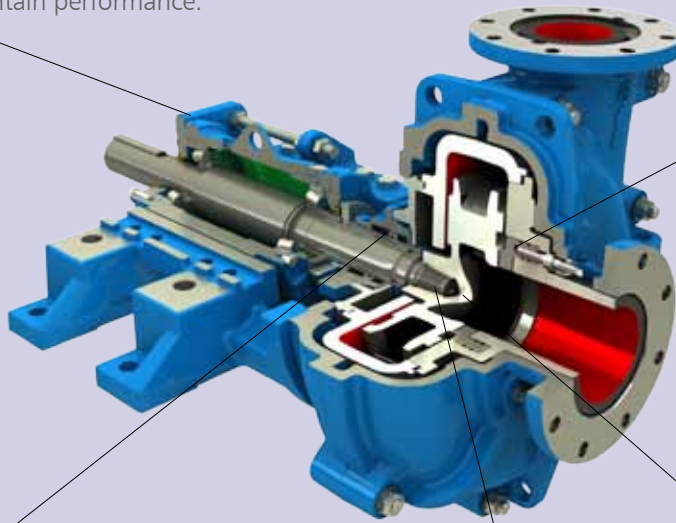
Total Cost of Ownership is the most comprehensive way to identify the true expenses associated with operating and maintaining pumps. Initial price is a small fraction – on average just 10% of what you'll spend to operate the pump over its lifetime. The Goulds XHD is designed to minimize these costs.



Bearing cartridge with machined rails for alignment. Easy to access dual rod adjustment allows you to adjust and maintain performance.



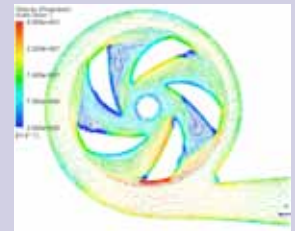
Suction seal ring is adjustable while pump is in operation, allowing you to maintain peak efficiency and performance along with extending wear life. (Patent Pending)



Split stuffing box and gland for quick and easy packing adjustment and replacement.



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



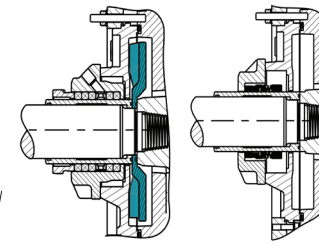
Extensive use of Computational Fluid Dynamics (CFD) analysis for optimal design to maximize efficiency and wear life.

Goulds XHD delivers safety, performance, reliability and ease of maintenance. Because when your slurry pump goes down, production does too.

Gooulds XHD

Extra Heavy Duty World-Class Lined Slurry Pumps

Designed for the toughest slurry applications



Split stuffing box and gland for easier packing maintenance. Choice of packing, expeller or mechanical seals.

OTHER FEATURES:

CFD designed high efficiency impeller for reduced power and longer wear life

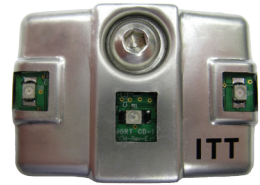
Quick change-out wet end design

Fully confined gaskets

Flanges designed to suit ANSI, ISO and other standards

Flood oil lubrication standard – grease option available

Generous open gland area for easy access



Patented **i-Alert™** vibration and bearing temperature monitor.

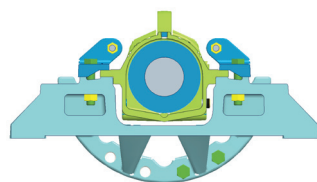
Easy access dual rod impeller adjustment.

Standard impeller knockoff ring on all sizes and large access openings make maintenance easy.

Inpro® 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.

Extra-thick, replaceable, hardened chrome iron liners for extended wear life.

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

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

Large diameter shaft for low deflection.



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 insure 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



Primary Cyclone Feed Pump in a Primary Metals Mill



Heavy Media Cyclone in a Coal Preparation Plant



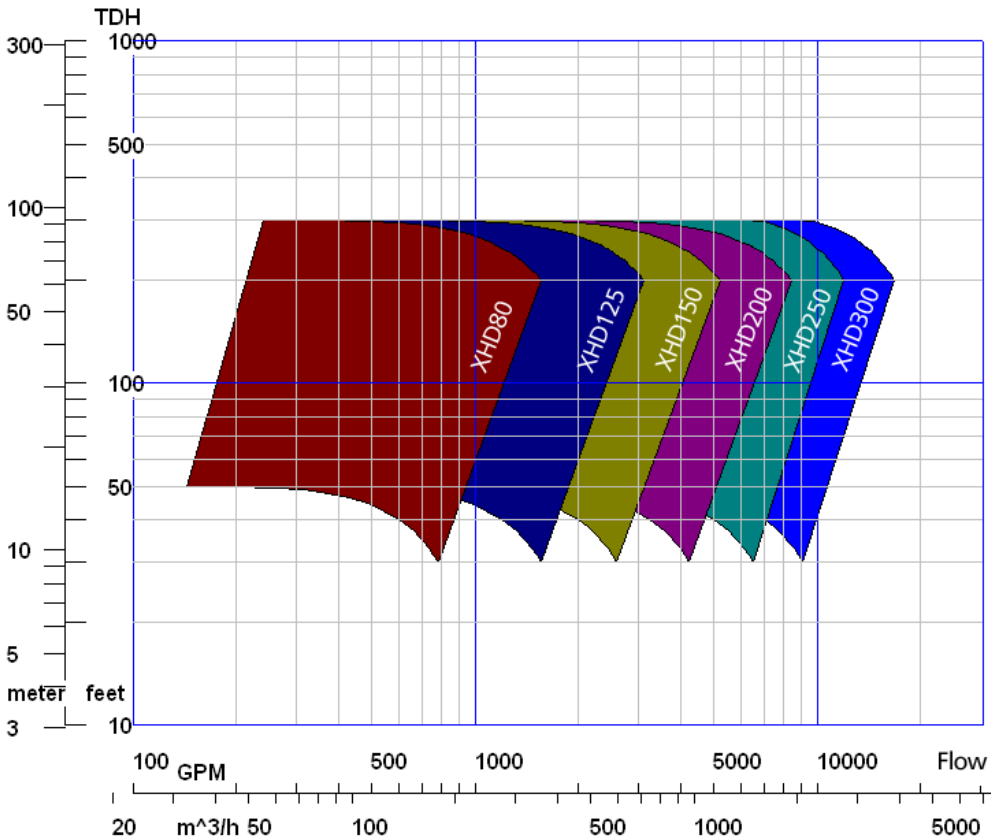
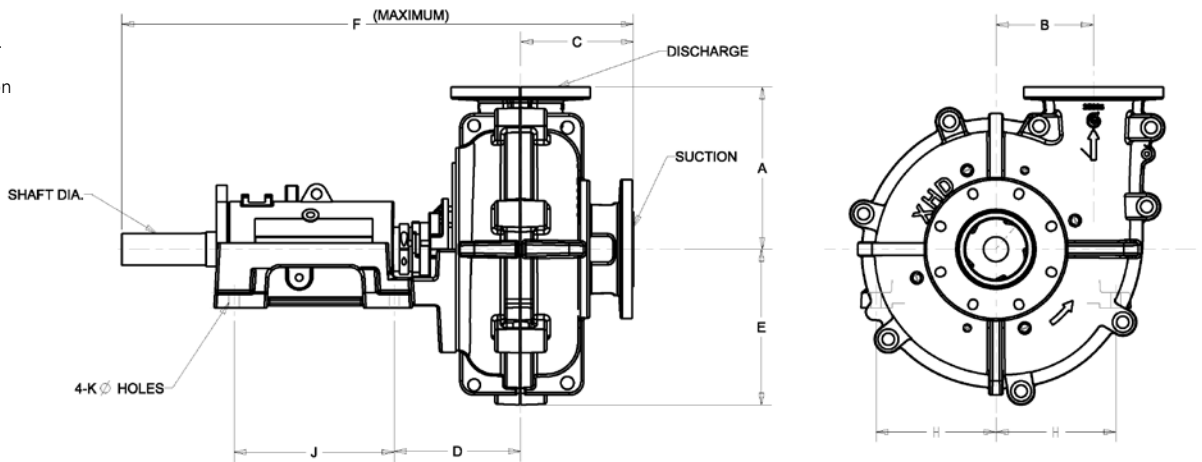
Thickener Underflow Pump in a Coal Preparation Plant

Dimensions

| PUMP SIZE | FRAME SIZE | FLANGE SIZE DIN/ANSI | | DIMENSIONS | | | | | | | | SHAFT DIA. |
|-----------|------------|----------------------|---------|------------|-----|-----|-----|-----|------|------|-----|------------|
| | | SUCT. | DISCH | A | B | C | D | E | F | H(3) | J | |
| 80 | PF2 | 125/5" | 125/5" | 300 | 165 | 210 | 336 | 278 | 1017 | 350 | 227 | 60 |
| 125 | PF3 | 200/8" | 200/8" | 400 | 240 | 275 | 393 | 394 | 1268 | 405 | 283 | 80 |
| 150 | PF4 | 300/12" | 300/12" | 515 | 310 | 360 | 516 | 560 | 1760 | 502 | 420 | 100 |
| 200 | PF4 | 350/14" | 350/14" | 650 | 400 | 435 | 546 | 710 | 1850 | | | |
| 250 | PF5 | 400/16" | 400/16" | 725 | 490 | 500 | 667 | 720 | 2174 | 515 | 490 | 120 |
| 300 | PF5 | 500/20" | 500/20" | 925 | 625 | 585 | 732 | 925 | 2285 | | | |

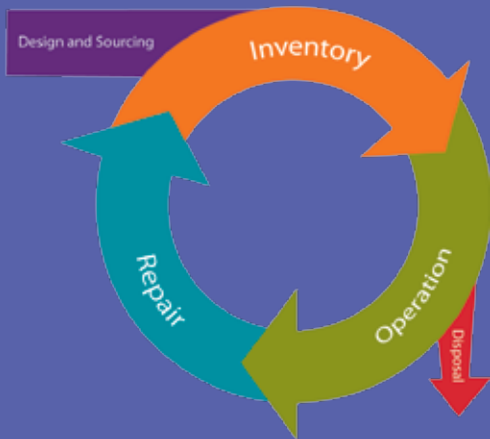
Notes:

1. All dimensions in mm.
2. Not for construction, installation, or application purposes.
3. Pedestal width.



Reliability has no quitting time.

ITT PRO Services provides reliable solutions to all of your aftermarket needs.



ITT PRO Services provides an array of services focused on reducing equipment total cost of ownership (TCO) and increasing plant output, including predictive monitoring, contract maintenance, field service, engineered upgrades, inventory management, and overhauls for pumps and other rotating equipment.



Design & Sourcing

- Site assessment to evaluate current practices, procedures, systems and workforce culture to guide the implementation of asset tracking and management.
- Life Cycle Costing to minimize total cost of ownership through initial design, standardization and sourcing
- Design support for all new system upgrades and modifications.

Inventory Optimization

- Efficient and timely parts supply
- Engineered parts for obsolete equipment
- Inventory analysis and management

Operation

- Equipment monitoring and control products and services to improve system reliability and up-time
- ITT on-site experts identify and resolve bad actor equipment issues through:
 - o Root cause failure analysis
 - o Energy performance audits and improvements
 - o Maintenance, operator and management training



Repair / Upgrades

- Repair to OEM standards
- Hydraulic re-rates to operate pumps at the customer's required setting
- Engineered drop-in replacements
- Scheduled maintenance and plant shutdowns
- Field service

Visit our website at
www.gouldspumps.com

Wherever you are, we're there too.



● ITT Production and Service Locations



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