

 **GOULDS PUMPS**

Goulds XHD

Extra Heavy Duty World-Class Lined Slurry Pumps



ITT

ENGINEERED FOR LIFE

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

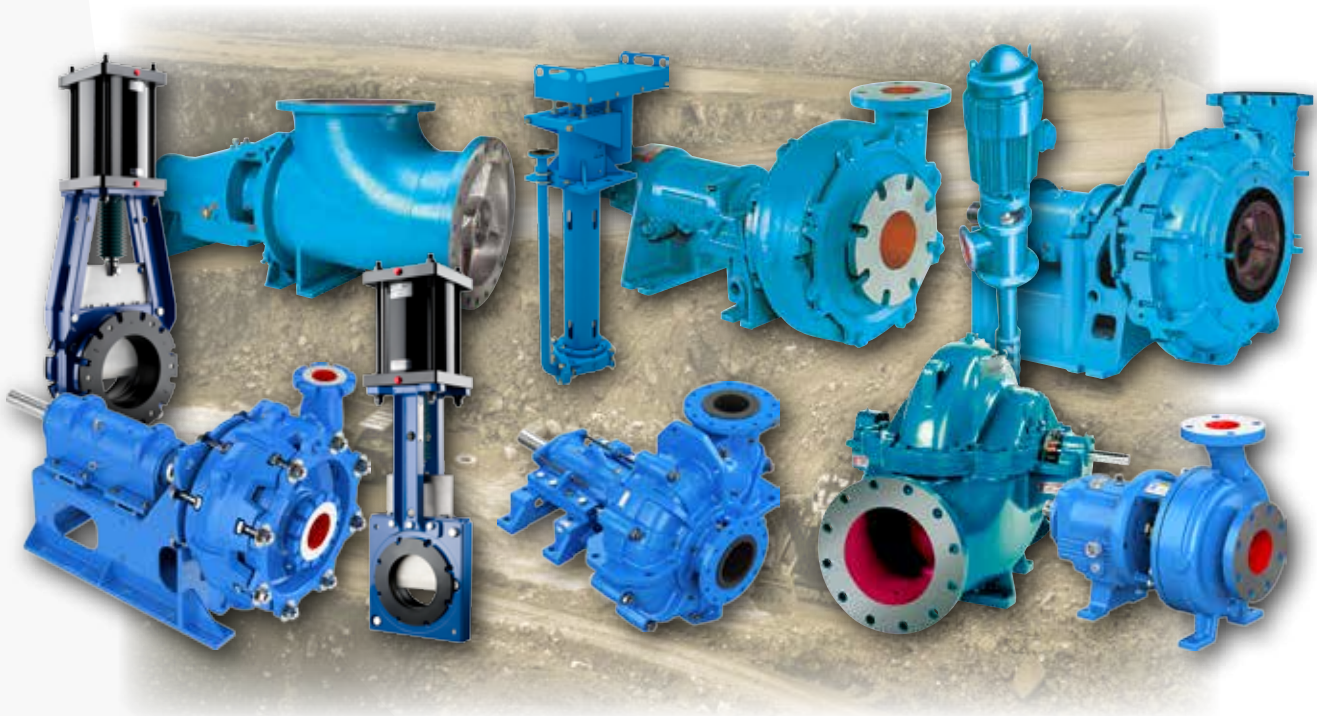
Due to our extensive portfolio for the mining industry, we can provide the right pump for our customers application, thus maximizing reliability. ITT Goulds Pumps can provide a complete solution for any pumping needs.

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:

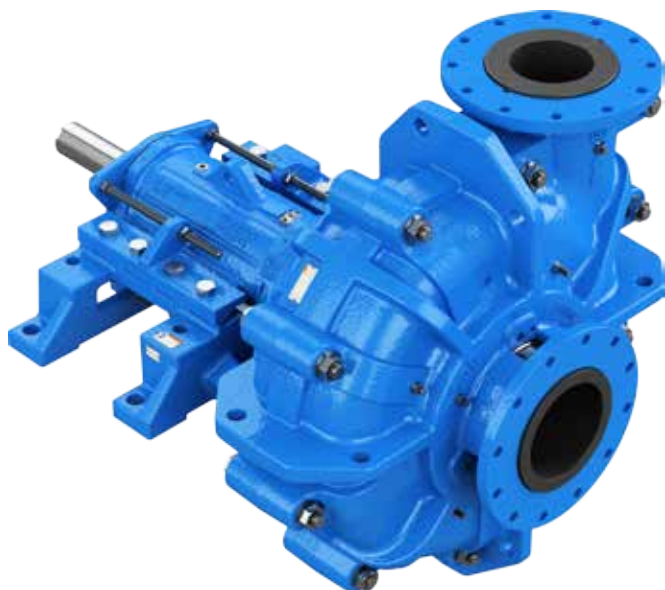
Primary Metals: SAG/Ball Mill, Cyclone Feed, Tailings

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

XHD



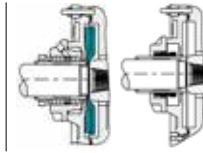
Extra Heavy Duty World-Class Lined Slurry Pumps Designed for the toughest slurry applications



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.



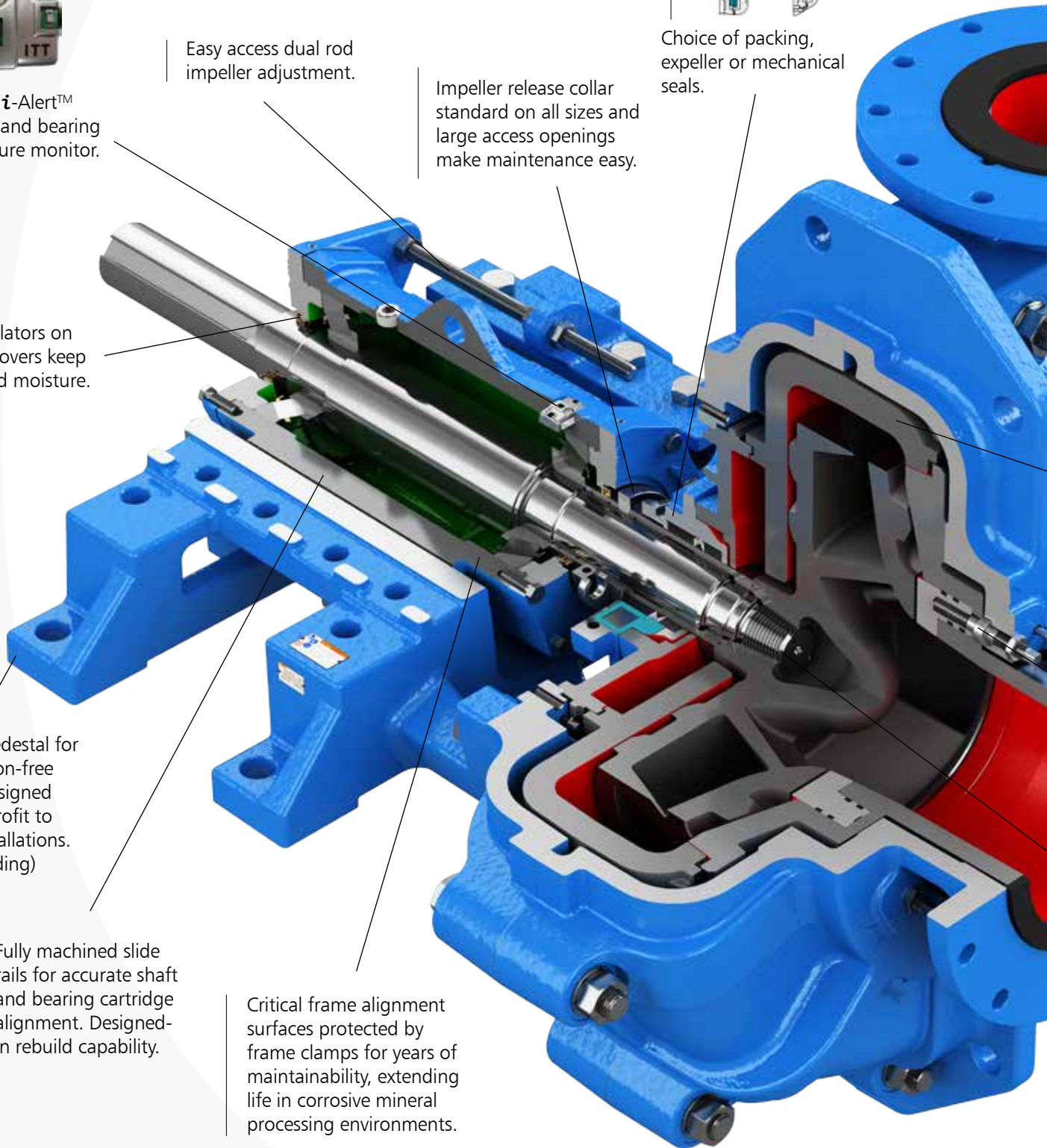
Choice of packing, expeller or mechanical seals.

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

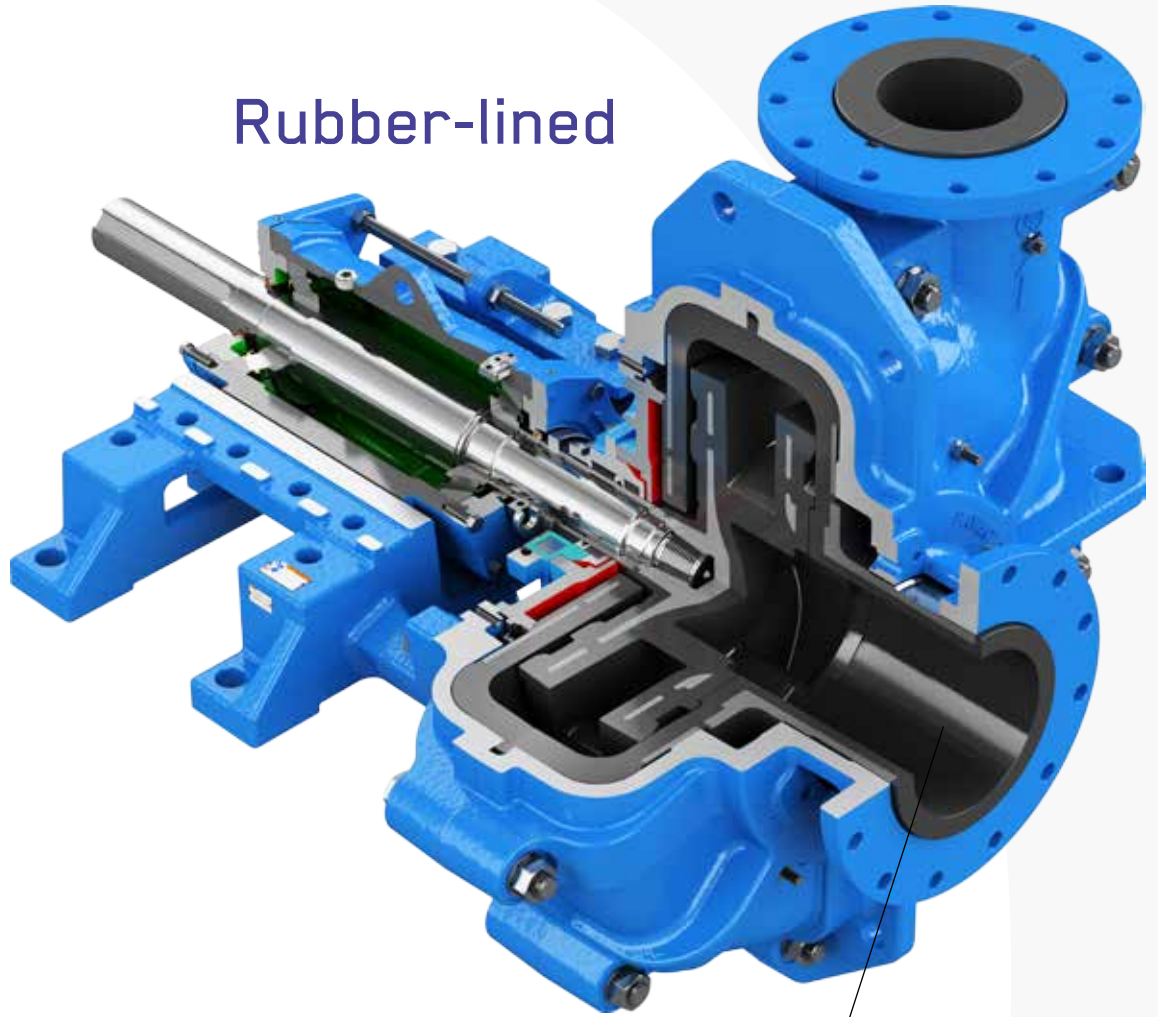
Compact pedestal for rigid vibration-free support. Designed to allow retrofit to existing installations. (Patent Pending)

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.



Rubber-lined



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

Simple wear monitor for visual inspection.

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)

Interchangeable rubber and metal wear components

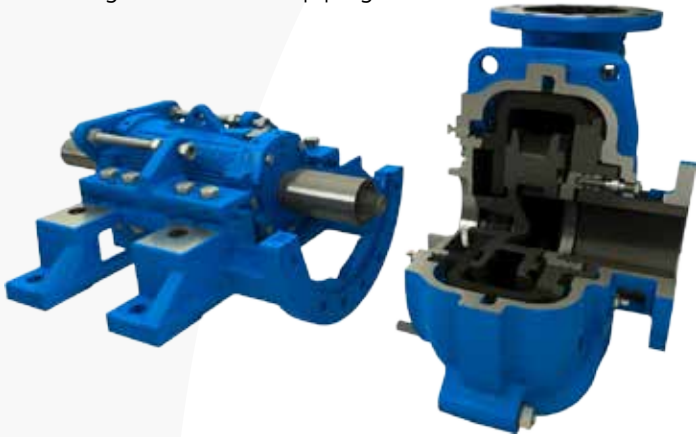


Mill discharge in silver plant

XHD

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.



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.

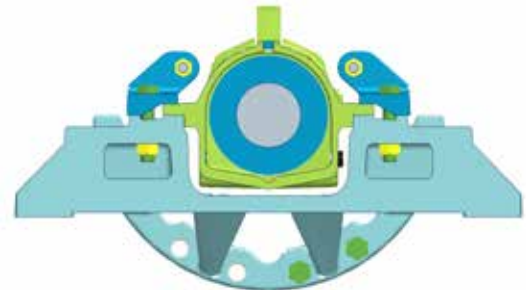


Split Stuffing Box & Gland

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



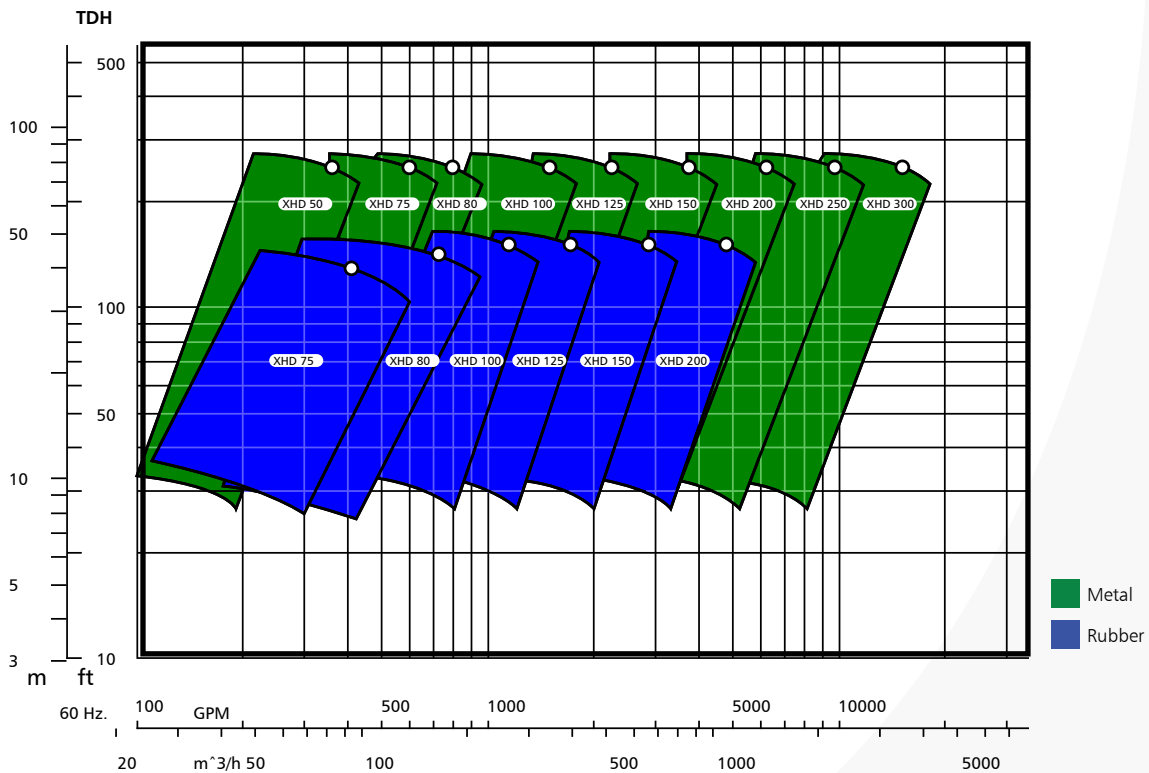
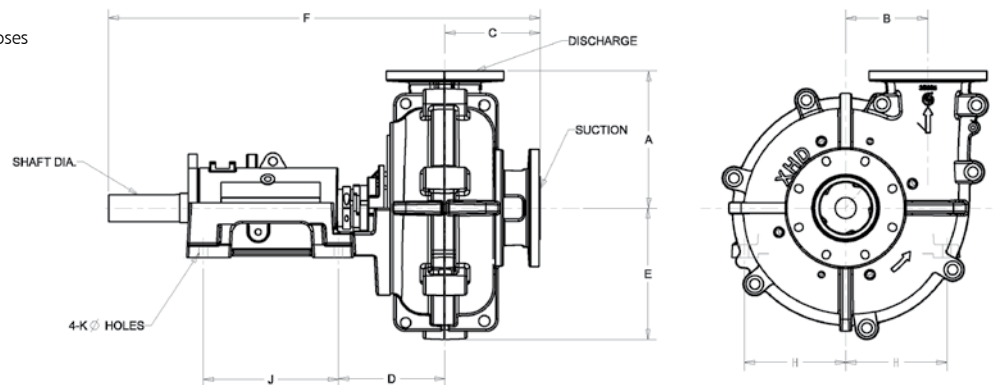
Tailings in a Gold processing plant

Dimensions

Pump Size	Pump Size (in)	Frame Size	Suction mm (in)	Discharge mm (in)	ANSI Flange Size Suct & Disch ⁽⁴⁾	Dimensions (mm)								Shaft Dia.
						A	B	C	D	E	F (approx)	H (3)	J	
50	2.5x2-9	PF1	63 (2.5)	50 (2)	3"	255	135	152	296	241	943	310	230	45
75	3x3-10	PF1	75 (3)	75 (3)	4"	280	160	160	320	257	980	310	230	45
80	4x3-12	PF2	100 (4)	80 (3)	5"	300	165	210	336	278	1020	350	227	60
100	5x4-15	PF3	125 (5)	100 (4)	6"	350	215	240	389	325	1233	405	283	80
125	6x5-15	PF3	150 (6)	125 (5)	8"	400	240	275	393	394	1273	405	283	80
150	8x6-21	PF4S	200 (8)	150 (6)	12"	515	310	360	510	560	1710	425	420	80
150	8x6-21	PF4	200 (8)	150 (6)	12"	515	310	360	516	560	1761	502	420	100
200	10x8-27	PF4S	250 (10)	200 (8)	14"	650	400	435	540	710	1804	425	420	80
200	10x8-27	PF4	250 (10)	200 (8)	14"	650	400	435	546	710	1851	502	420	100
250	12x10-32	PF5	300 (12)	250 (10)	16"	725	490	500	677	720	2174	515	490	120
300	14x12-40	PF5	350 (14)	300 (12)	20"	925	625	585	733	925	2285	515	490	120

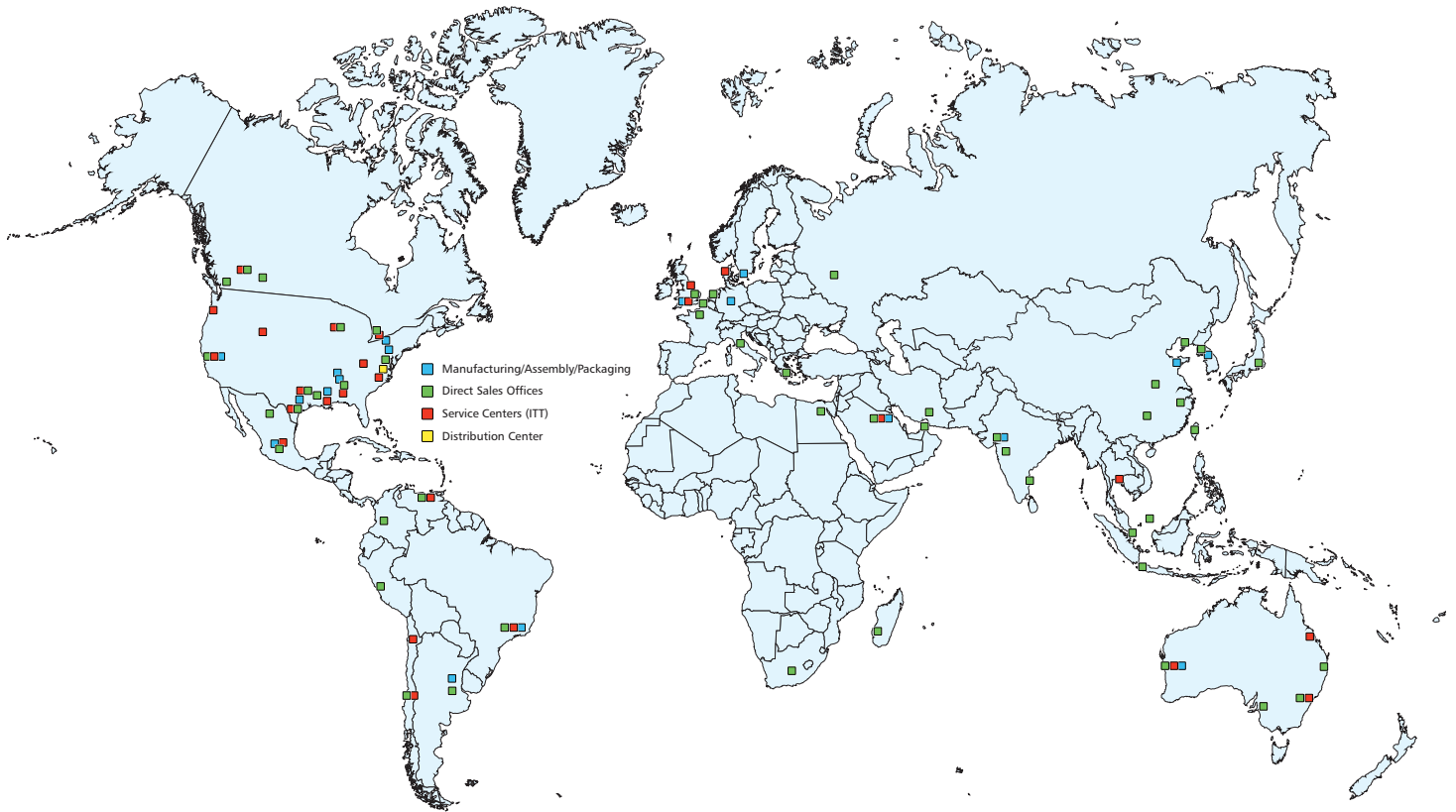
Notes:

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



Visit our website at
www.gouldspumps.com

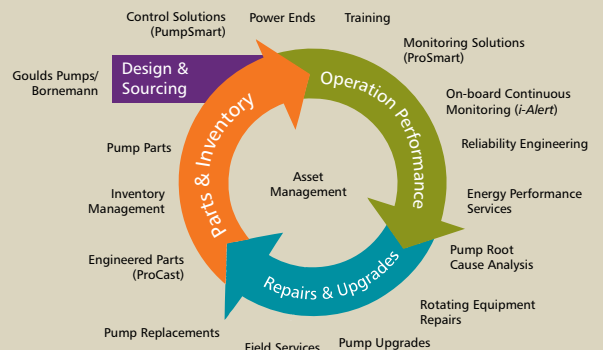
Wherever you are, we're there too.



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



240 Fall Street
Seneca Falls, NY 13148
www.itt.com

© 2015 ITT Corporation, Inc.

B.XHD.en-US.2016-09