

Product Guide

Tailings Management | Fines Recovery
Dewatering | Equipment & Chemicals

INTRODUCTION



As a leader in the mineral processing industry for over 20 years, Tons Per Hour™ Inc. provides tailings management, fines recovery, dewatering equipment and chemicals and wastewater treatment solutions. We offer very flexible consignment programs to suit the individual needs of each customer.

Quality liquid-solid separation is critical to the modern mineral process industry focusing on natural resource stewardship, environmental compliance, and water resource management. TPH is aligned with quality manufactures in both North and Latin American markets to provide quality products and unique solid-liquid solutions.

Our equipment line includes:

- Filter & belt presses
- Thickeners & clarifiers
- Slurry pumps & valves
- Flocculant preparation & metering systems
- Dewatering screens
- Complete turnkey solutions
- Laboratory services
- Engineering services

FILTER PRESSES

The Biggest and Best in the industry, offering both chamber and membrane, standard or high-pressure models.



Quality Manufacturing

Tons Per Hour/Jingjin Filter Presses are built to our exacting standards and specifications by Jingjin Filter Presses—the world’s leader and largest manufacturer of filter presses. In 2014, Jingjin placed over 10,000 filter press solutions world-wide and over 6,000 presses have been placed in the mineral process industry for both tailings and mineral concentration dewatering since 2006.

With Tons Per Hour/Jingjin Filter Presses, you are ensured maximum reliability, efficient water recovery and stackable dry solids. Tons Per Hour, Inc. has recently placed presses in coal, industrial silica, limestone and gold.

Filter Plates

The filter plate is the core of the Filter Press. Quality materials and precision manufacturing play a major role in the effective filtration our system provides. Our plates are made with TPE Elastomers providing flexibility similar to rubber, but offer superior durability. Rigidity and an airtight seal are achieved with the highest quality polypropylene available. Our plates comply with all international standards and are the most advanced in the world. We also supply replacement plates for other brands of filter presses.



Advantages

- High capacity (up to 70 dry tons per hour per cycle)
- Extremely low moisture content (less than 20%)
- No chemical demand
- Low power consumption
- Completely automated (no operator required)
- Low maintenance cost
- Automated filter media shower system
- Precision manufacturing
- Proprietary processing algorithms
- Minimum wear/replacement parts
- ISO9001 and ISO14001 certified

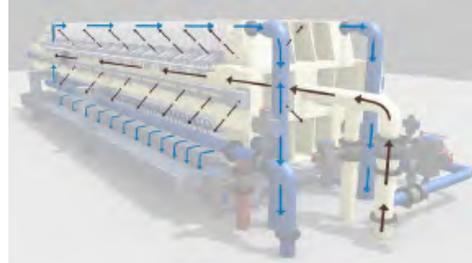
Typical model and capacities, although many other designs are available depending on customer needs.

Model	Number of chambers	Filter area (M ²)	Cake thickness (mm)	Approx. overall dimensions (L x W x H, mm)	Membrane pressure (MPa)	Cycles (per hour)	Disposal capacity (tons/hr)
2000x2000	44-100	300-700	45	37-63 x 12.2 x 10.6	2	3-5	50-200
1500x1500	26-64	100-250	45	27-43 x 10.3 x 9.4	2	3-5	10-70
1000x1000	28-52	40-80	40	23-30 x 5.6 x 5.9	2	4-8	4.2-12
800x800	10-40	10-40	30	19-13 x 5.1 x 3.9	2	4-10	0.6-1.8

FILTER PRESS OPERATION

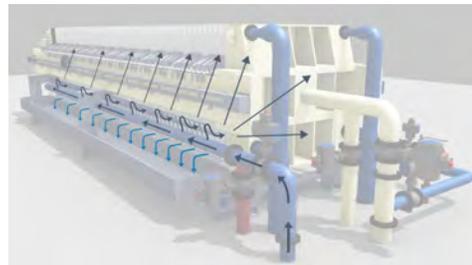
Step 1: Filtration

Slurry (→) is pumped into the cavity between the plates. Each plate is surrounded by a fiber cloth membrane. The filter cloth retains the solids and allows clean water to pass through. The water (→) is returned to the process.



Step 2: Membrane

Every other plate is inflated (→) which further dewateres the cake.



Step 3: Cake Blow

Next, compressed air (white arrow) is blown into each chamber to further reduce moisture.



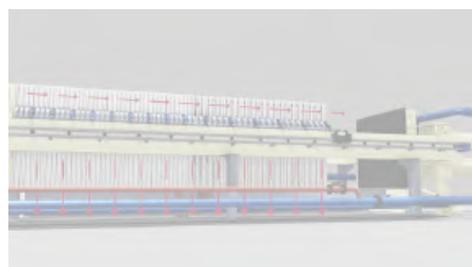
Step 4: Core Blow

Finally, the center core in the press is evacuated with a flush system.



Step 5: Cake Release

The press opens and the cake is released. If the cake is sticky, vibration mechanisms are available.



CYCLONES



Cyclones

Tons Per Hour offers cost-effective cyclones for nearly every application including efficient fines recovery, classification and scrubbing. We provide both traditional hydrocyclones as well as Vacuum Assisted Cyclones (VAC). We offer a complete line of dewatering cyclones for classification, dewatering and scrubbing.



CLARIFIERS & THICKENERS



Clarifiers

Ultra High Capacity (UHC) Clarifiers provide high flow, high tonnage capacities, low maintenance, a small footprint, and are preassembled to minimize installation time. Our clarifiers provide nearly 95% water recovery from your process slurry and the highest underflow density in the industry. They are completely pre-fabricated and can be erected in one day. We offer integrated cyclone support structures to reduce cost and allow gravity feed. The base structure can be utilized as a fresh water storage tank, a storage area, MCC, or a testing laboratory.

We offer:

- Flow capacity up to 7,000 GPM in a single unit
- Quick installation
- Low maintenance
- Clear reusable effluent
- Precise underflow density control
- Completely automated operations, including flocculant dosage, through the use of our exclusive fiber optic metering system.

Deep Cone Thickeners

Our unique Deep Cone Thickener is perfect for low-flow applications and portable wash plants. It achieves high density underflow solids and has an integrated cyclone support structure. This system discharges high density underflow solids through an automated pneumatic pinch-valve system. You can expect:

- Flow capacity up to 20,000 GPM in a single unit
- Up to 95% water recovery
- Quick installation, low maintenance
- No internal moving parts
- High density underflow



FLOCCULENT SYSTEMS & CHEMICALS

Flocculant Systems and Chemicals

Our “Silver Bullet” system integrates a super-sack hanger with a dual-chambered tank. This allows for weather resistant flocculant blending in all environments. We use gentle mechanical agitation to ensure complete blending and activation which results in maximum cost savings and reduced maintenance.



Tons Per Hour's Volumetric Feeder, with its unique wetting system, ensures even blending (no “fish eyes”), for consistent batching accuracy and maximum flocculant efficiency. This system coupled with our “Photo Eye” automatic dosage system provides trouble-free operation and a clean, safe work environment.



Our flocculation chemicals are the highest quality and most cost effective in the industry. We offer both dry and liquid anionic flocculants and a complete line of coagulants. Coupled with our blending and metering system, you can expect low consumption, low maintenance and fully automated dosing.



HEAVY DUTY SLURRY PUMPS



TDH slurry pumps are designed for continuous pumping of highly abrasive and high density slurries – with the greatest reliability – reducing downtime and maximizing production.

Unlike competing models, TDH slurry pumps will maintain high efficiencies over the entire wear life of their components. Continuous adjustment of impellers or adjustable liners is not required.



For interchangeability and maximum uptime, TDH casings for horizontal shaft slurry pumps (models T, P, R, N, D, and G) use the same base, bearing housings, bearings, and sealing options.

All pumps and parts are centrally located in Houston, Texas for fast service and delivery.



CENTRIFUGAL SLURRY PUMPS

SERIES	TYPE	DISCHARGE DIAMETER	HEAD	FLOW RATE	CASING PRESSURE
		inch (mm)	feet (meters)	US gpm (m ³ /hour)	MWP PSI (bar)
T	Heavy duty	1-14 (25-350)	240 (73)	16,000 (3,600)	300 (20.7)
R	Low Head/ High Volume	3-18 (75-450)	180 (55)	24,000 (5,500)	150 (10.3)
D	Dredge	4-10 (100-250)	150 (46)	6,000 (1,362)	150 (10.3)
V	Vertical Cantilever	1.5-10 (40-250)	16 (50)	6,000 (1,362)	150 (10.3)
P	High Head/ Heaviest Duty	1-4 (25-100)	325 (100)	4,500 (900)	500 (35)
N	Unlined – High Chrome	2-10 (500-250)	240 (73)	6,500 (1,475)	150 (10.3)
G	Gravel	6-8 (150-200)	240 (73)	6,000 (1362)	150 (10.3)
F	Vertical Froth	2-6 (50-150)	80 (24)	1,000 (225)	100 (6.9)

HORIZONTAL SLURRY PUMPS

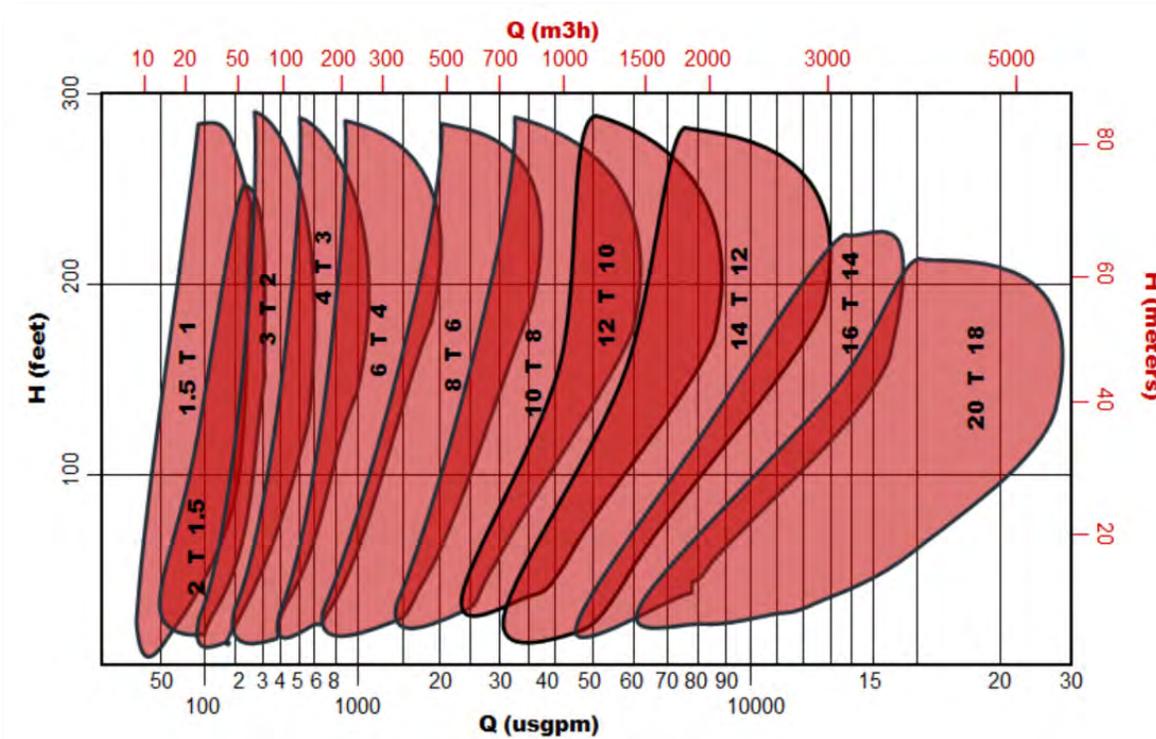
TDH “T” Touch Series – Metal Lined

“T” pumps are designed for a wide band of slurry applications. They are generally used for slurries containing high concentrations of erosive solids and where a tough, heavy duty pump is required.

This series also has multiple impeller and multiple sealing options for each pump size. This assortment enhances correct hydraulic selection and proper application.

Series “T” Attributes – Metal Lined:

- Horizontal, Centrifugal, Single Stage, Lined, Split Case, End-Suction pumps
- Discharge Diameters 1” to 18” (25 mm to 450 mm)
- Heads through 240 ft (73 m)
- Flow Rates through 20,000 US gpm (4542 m³/h)
- Casing Pressure MWP 300 psi (20.7 bar) Metal Lined
- Temperature Limitation 250°F (120°C) Metal Lined
- Standard Hardness 600-650 BHN (59.8 Rc) Metal Lined
- pH range from 1-14 in both Metal and Elastomeric configurations
- Sealing Options:
 - Dynamic Seal – no flush water
 - Dynamic Seal – extremely low flush rate
 - Static Stuffing Box – full flush rate
 - Static Stuffing Box – low flush rate
 - Mechanical Seal



HORIZONTAL SLURRY PUMPS

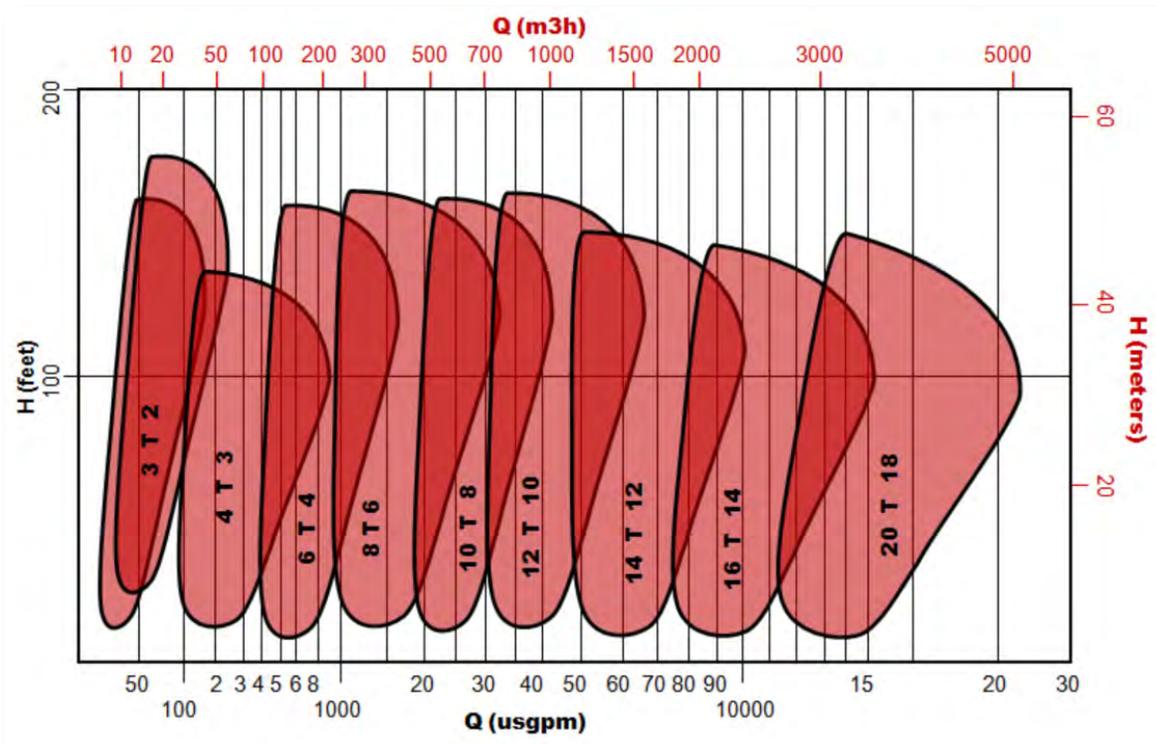
TDH “T” Tough Series – Elastomer Lined

“T” pumps are designed for a wide band of slurry applications. They are generally used for slurries containing high concentrations of erosive solids and where a tough, heavy duty pump is required.

This series also has multiple impeller, and multiple sealing options for each pump size. This assortment enhances correct hydraulic selection and proper application.

Series “T” Attributes – Elastomer Lined:

- Horizontal, Centrifugal, Single Stage, Lined, Split Case, End-Suction pumps
- Discharge Diameters 1” to 18” (25 mm to 450 mm)
- Heads through 150 ft (46 m)
- Flow Rates through 20,000 US gpm (4542 m³/h)
- Casing Pressure MWP 170 psi (11.7 bar) Elastomer Lined
- Temperature Limitation 150°F (65°C) Rubber Lined
- Temperature Limitation 220°F (104°C) Butyl or Hypalon Lined
- pH range from 1-14 in both Metal and Elastomeric configurations
- Sealing Options:
 - Dynamic Seal – no flush water
 - Dynamic Seal – extremely low flush rate
 - Static Stuffing Box – full flush rate
 - Static Stuffing Box – low flush rate
 - Mechanical Seal



HORIZONTAL SLURRY PUMPS

TDH “P” Pressure Series

“P” pumps are extremely tough, large, slow speed pumps that are designed with extra abrasive resistant material to deal with your worst applications.

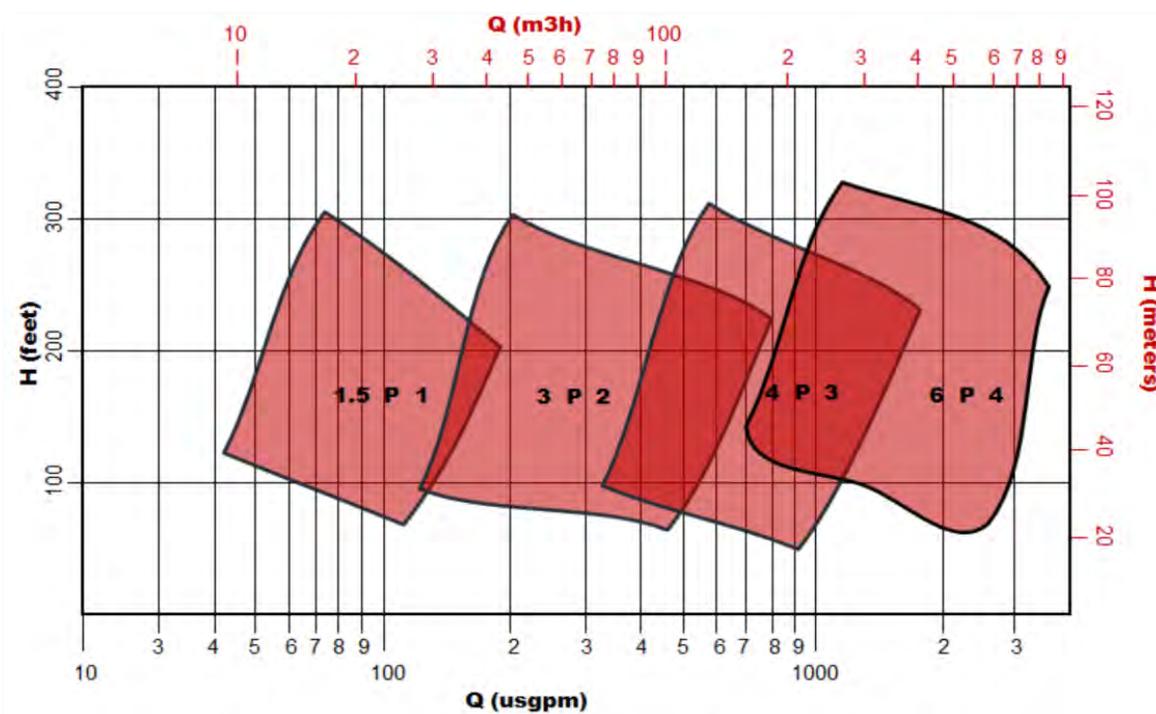
“P” pumps are designed for a high pressure, and can train as many as 5 pumps in series.

“P” pumps can also be used for slurries containing very high concentrations of erosive solids.

“P” pumps are only available with metal liners and impellers.

Series “P” Attributes:

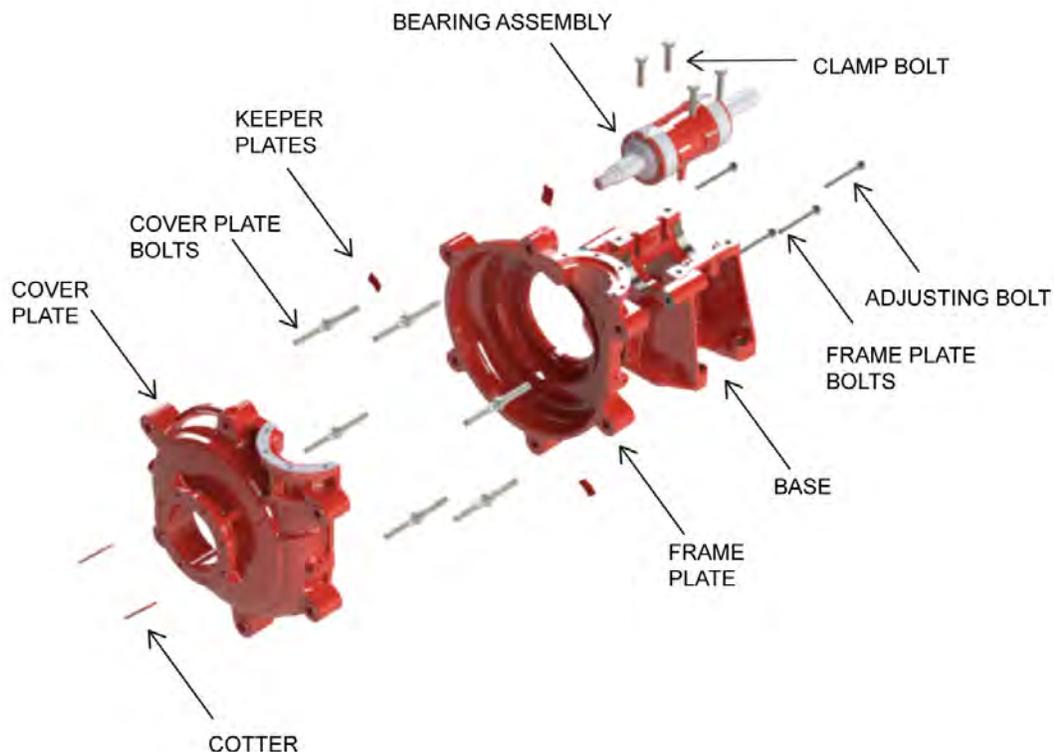
- Horizontal, Centrifugal, Single Stage, Lined, Split Case, End-Suction pumps
- Discharge Diameters 1” to 4” (25 mm to 100 mm)
- Heads through 325 ft (100 m)
- Flow Rates through 4,000 US gpm (900 m³/h)
- Casing Pressure MWP 500 psi (35 bar) Metal Lined
- Temperature Limitation 250°F (120°C) Metal Lined
- Standard Hardness 600-650BHN (59.8 Rc) Metal Lined
- pH range from 1-14
- Sealing options:
 - Dynamic Seal – no flush water
 - Dynamic Seal – extremely low flush rate
 - Static Stuffing Box – full flush rate
 - Static Stuffing Box – low flush rate
 - Mechanical Seal



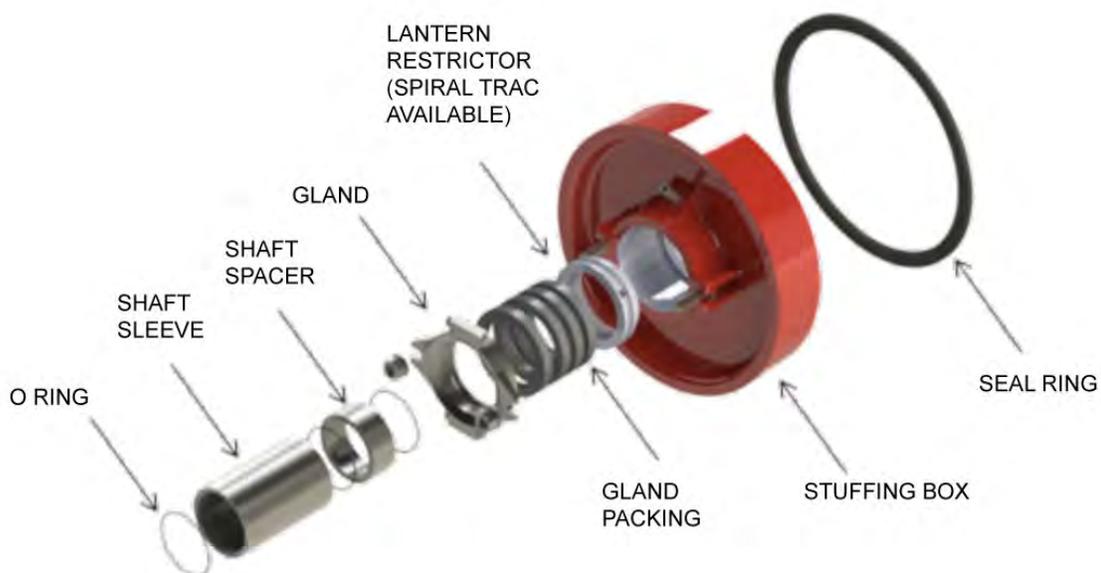
HORIZONTAL SLURRY PUMPS

Typical Frame Assembly Parts

Variations occur between models

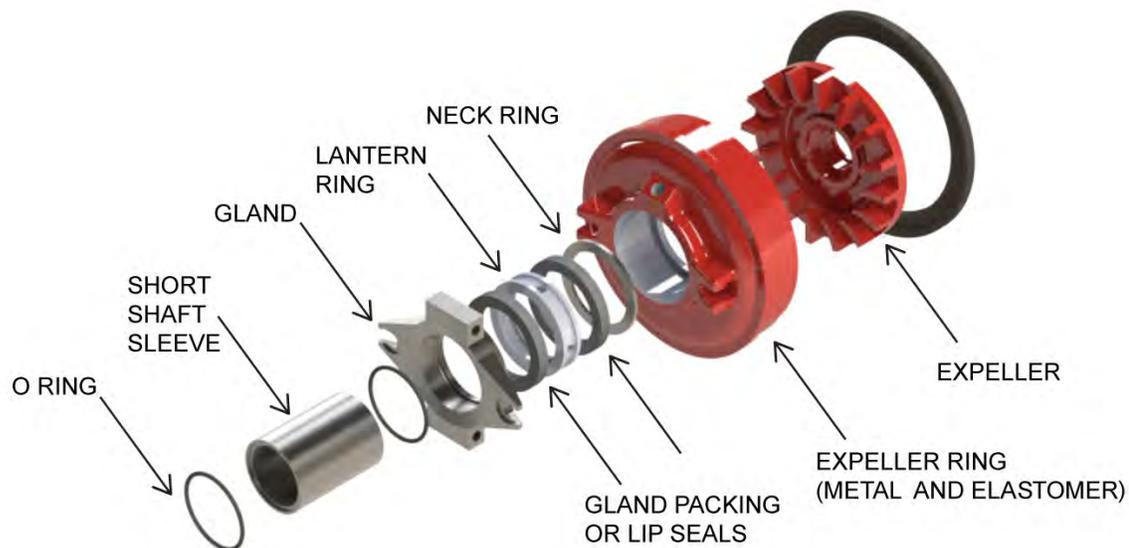


Typical Stuffing Box Assembly Parts

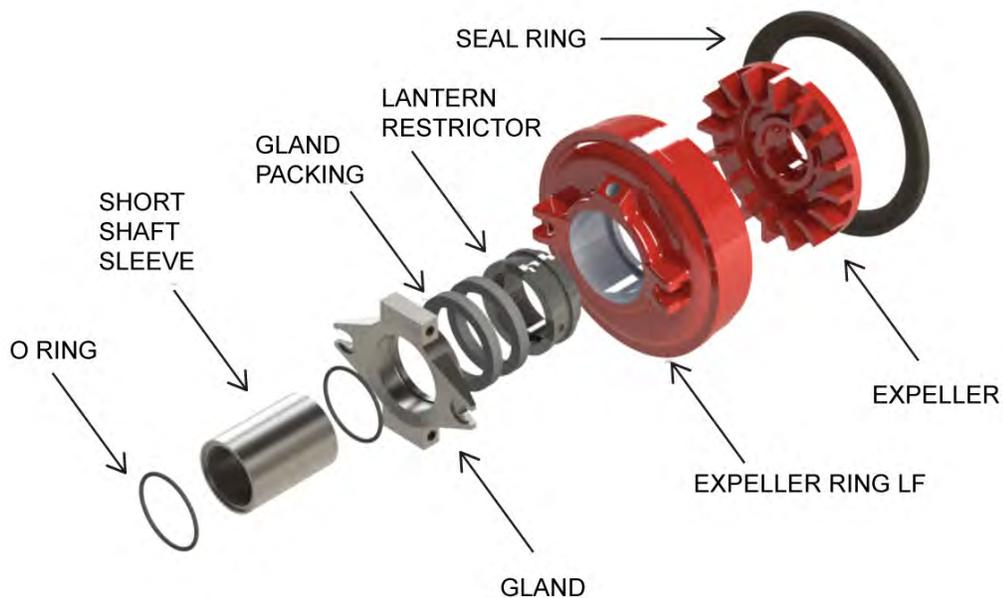


HORIZONTAL SLURRY PUMPS

Typical Dynamic Seal Assembly Parts - Grease Lubricated



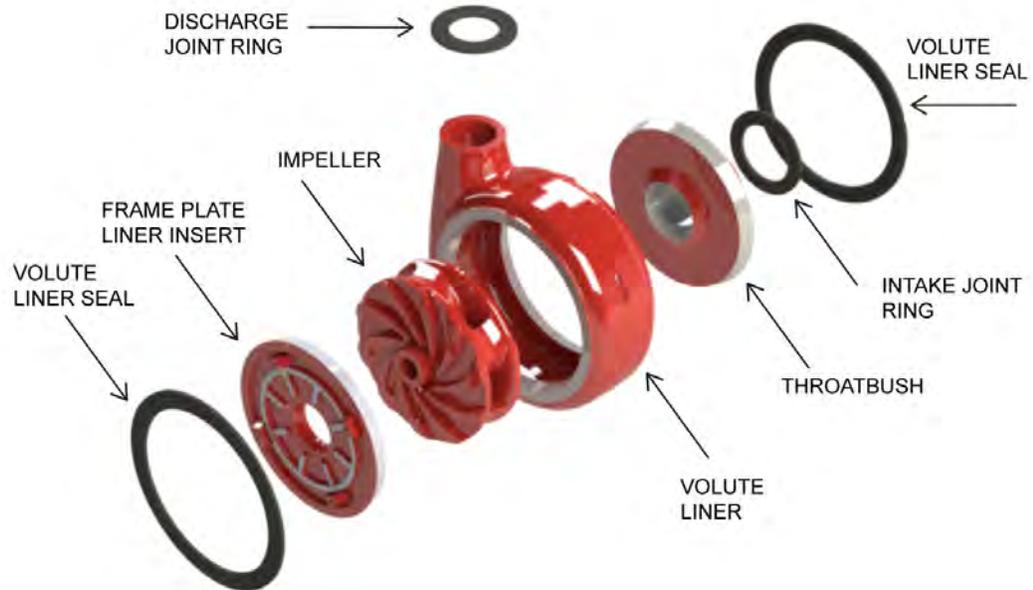
Typical Dynamic Seal Assembly Parts - Water Lubricated



HORIZONTAL SLURRY PUMPS

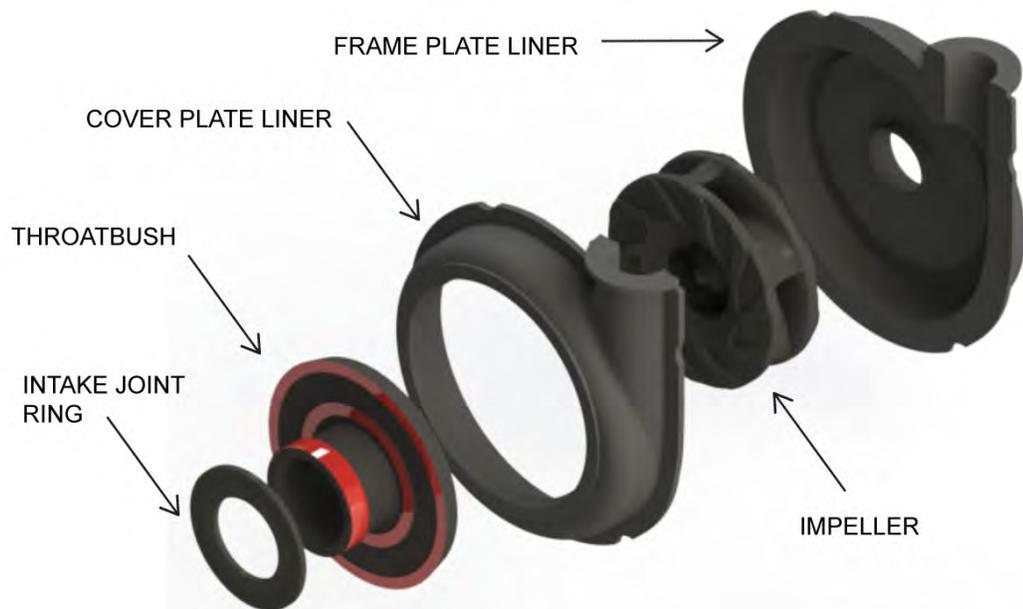
Typical Metal Wet Assembly Parts

Variations occur between models



Typical Elastomer Wet End Assembly Parts

Variations occur between models



VERTICAL SLURRY PUMPS

Typical Applications

Continuous
or “snore”
operation

Sump
drainage

Abrasive
slurries

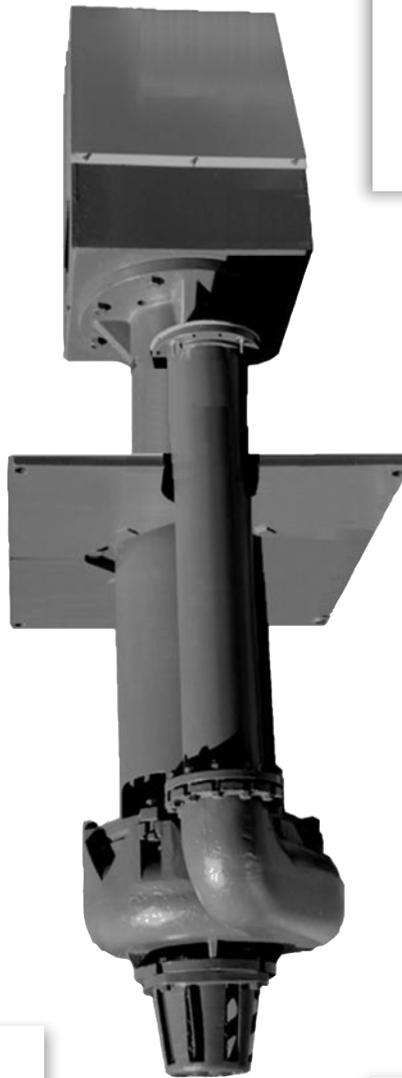
Washdown

High
density
slurries

Floor
drainage

Large
particle
slurries

Mixing



VERTICAL SLURRY PUMPS

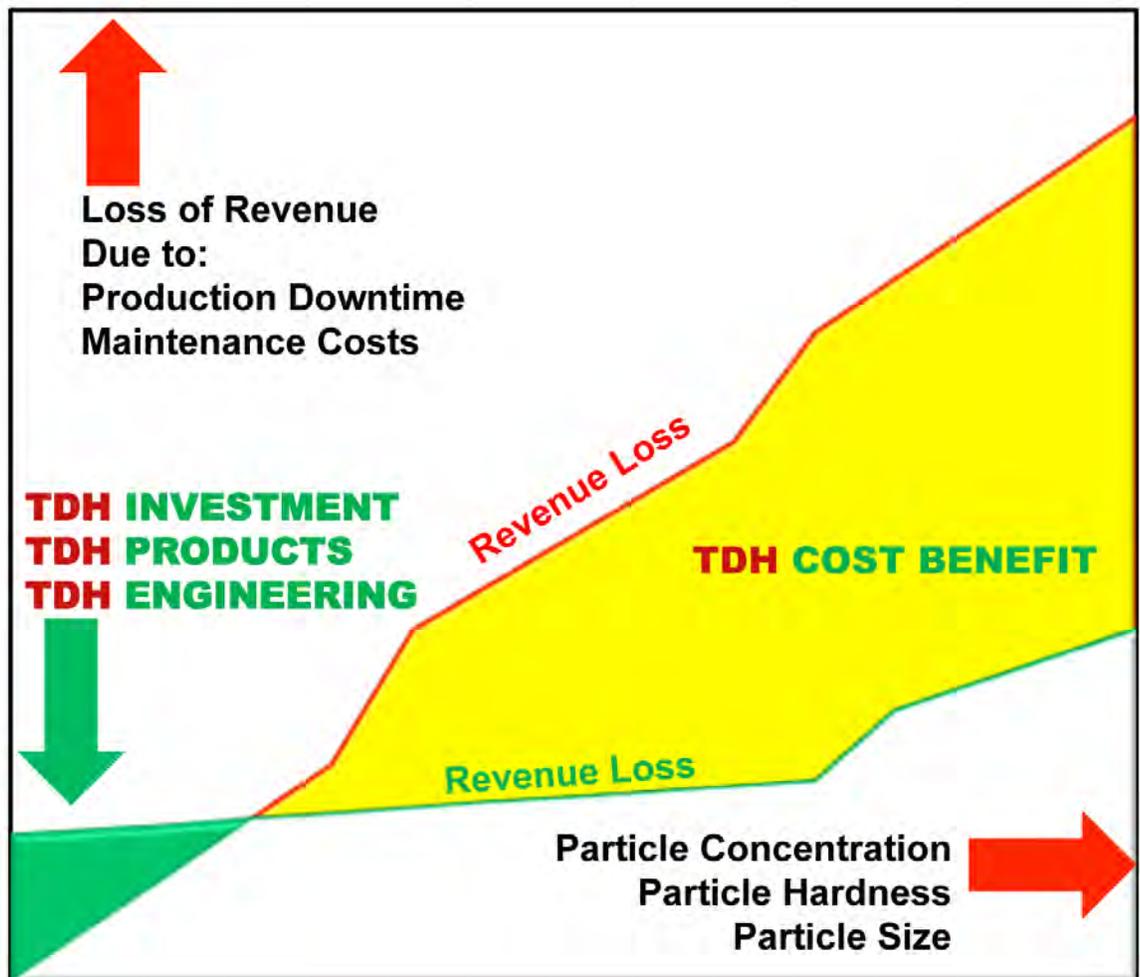
TDH Vertical Cantilevered Slurry Pump

Fully Cantilevered Seal Free Design

This pump incorporates heavy duty roller bearings, heavy walled metal casings, rubber lined heavy duty steel columns and discharge pipes.

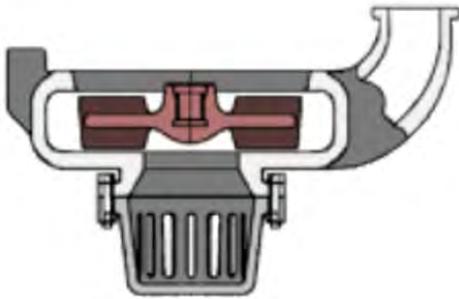
A “double-section” impeller allows fluid to enter both top and bottom. Used in conjunction with a long robust shaft, this combination protects submerged bearings, packing, lip and mechanical seals.

This product capability combined with TDH engineering expertise enhances correct hydraulic selection, proper application and cost effectiveness.

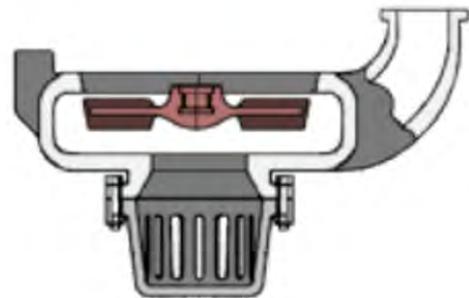


VERTICAL SLURRY PUMPS

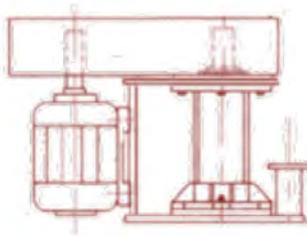
Standard impeller



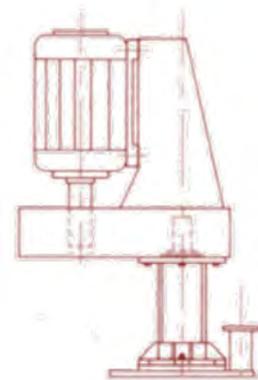
Large particle impeller



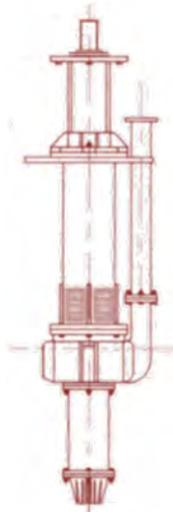
Motor shaft up



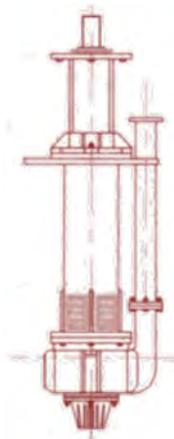
Motor shaft down



Extended set with tailpipe



Standard set



M Series Vertical Multistage

TDH “M” Series

Light Vertical Multistage Centrifugal

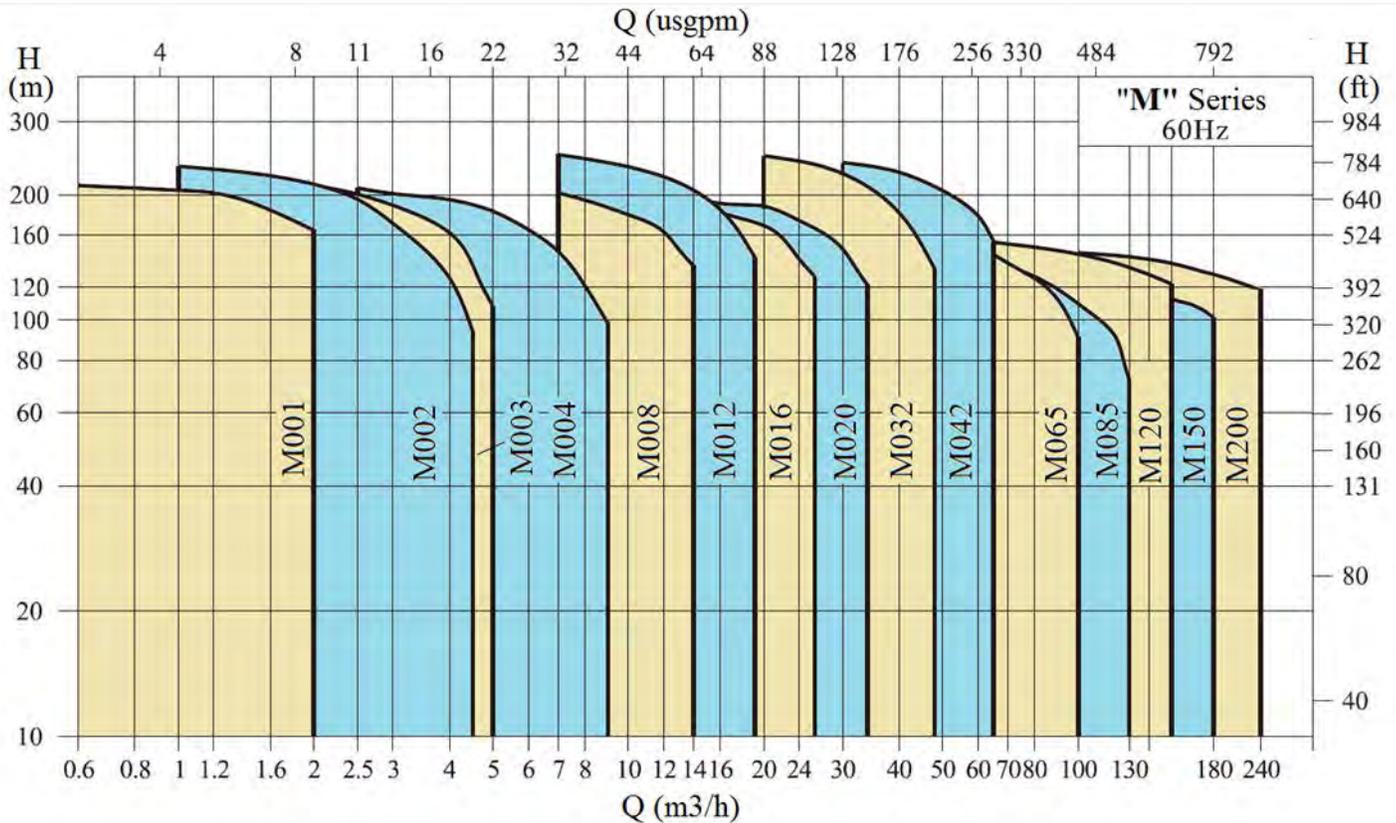
Applications:

- Filter Press Membrane
- Process Flow Water
- Cleaning Systems
- Industrial Boosting
- High Pressure Washing
- Cooling System
- Reverse Osmosis
- Irrigation



M Series Vertical Multistage

TDH "M" Series Composite Curve



TDH "M" Series Design Criteria

Design Criteria

The TDH "M Series pump is designed to operate with non-viscous fluids, non-flammable fluids, with no solids or fibers and a maximum specific gravity of 1.03. The design is also capable of pumping slightly corrosive fluid.

Maximum Fluid temperature is 140 degrees C, and current design specifications are for a maximum of 1000 meters of elevation.

Maximum Heads are between 120 and 200 Meters.

Flow rates up to 240 Cubic Meters Per Hour.

M Series Vertical Multistage

Description “M” Series Pump

Description

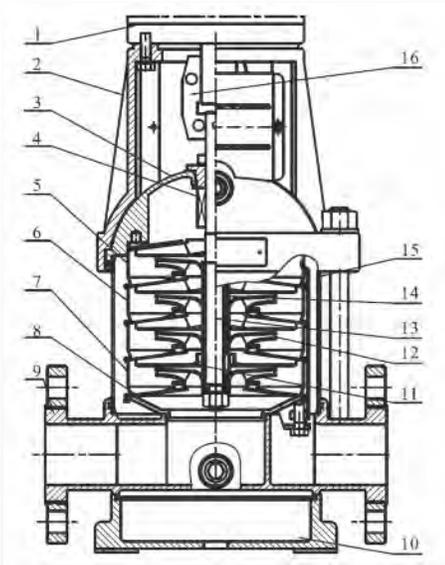
The TDH “M” Series Pump is an above ground vertical multistage centrifugal pump which is driven by a fully enclosed, IP55, Class F insulated motor. The motor shaft connects to the pump with a coupling.

The pressure resistant containment Cylinder and Diffusers are fixed between the Pump Head and the Inlet-Outlet Chamber with stay bolts.

The suction and discharge are located on the same plane at the bottom of the pump.

TDH “M” Sectional Assembly Drawing

Model Numbers 001, 002, 003, 004, 008, 012, 016, 020

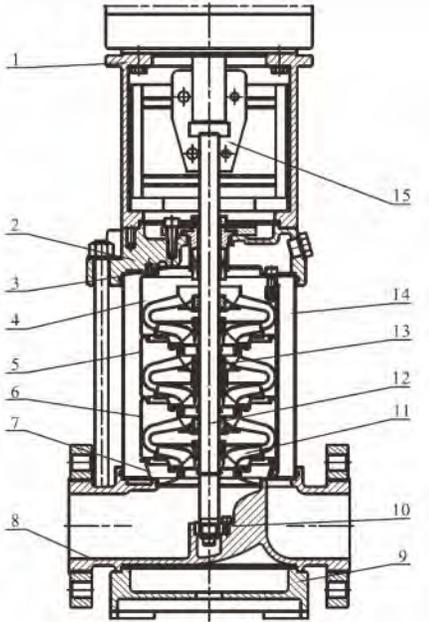


PART	ITEM	MATERIAL	ASTM/AISI
Motor	1		
Pump Head	2	Cast Iron	ASTM25B
Seal Base	3	Stainless Steel	AISI304
Mech Seal	4		
Top Diffuser	5	Stainless Steel	AISI304
Diffuser	6	Stainless Steel	AISI304
Support Diffuser	7	Stainless Steel	AISI304
Inducer	8	Stainless Steel	AISI304
Inlet Outlet Chamber	9	Stainless Steel	AISI304
Inlet Outlet Chamber	9		
Base Plate	10	Cast Iron	ASTM25B
Bearing	11	Tungsten Carbide	
Impeller	12	Stainless Steel	AISI304
Shaft	13	Stainless Steel	AISI304
Impeller Sleeve	14	Stainless Steel	AISI304
Cylinder	15	Stainless Steel	AISI304
Coupling	16	Carbon Steel	

M Series Vertical Multistage

TDH “M” Sectional Assembly Drawing

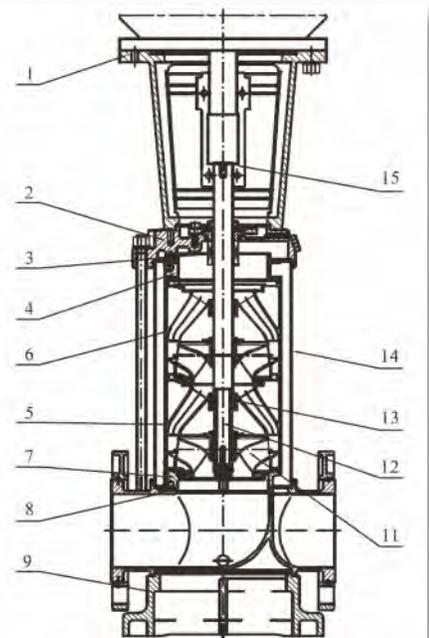
Model Numbers 032, 042, 065, 085



PART	ITEM	MATERIAL	ASTM/AISI
Bracket	1	Cast Iron	ASTM25B
Pump Head	2	Stainless Steel	AISI304
Mech Seal	3	Stainless Steel	AISI304
Top Diffuser	4	Stainless Steel	AISI304
Support Diffuser	5	Stainless Steel	AISI304
Diffuser	6	Stainless Steel	AISI304
Inducer	7	Stainless Steel	AISI304
Inlet Outlet Chamber	8	Stainless Steel	AISI304
Base Plate	9	Cast Iron	ASTM25B
Bottom Bearing	10	Tungsten Carbide	
Impeller	11	Stainless Steel	AISI304
Shaft	12	Stainless Steel	AISI304
Intermediate Bearing	13	Tungsten Carbide	
Cylinder	14	Stainless Steel	AISI304
Coupling	15	Carbon Steel	
Rubber Parts	20	NBR	

TDH “M” Sectional Assembly Drawing

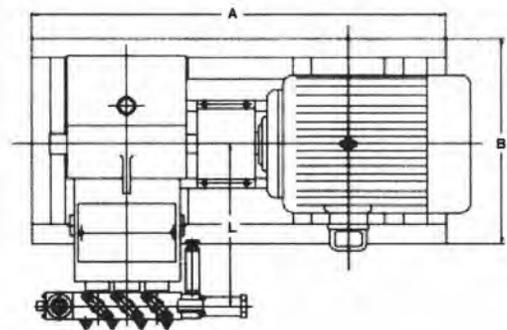
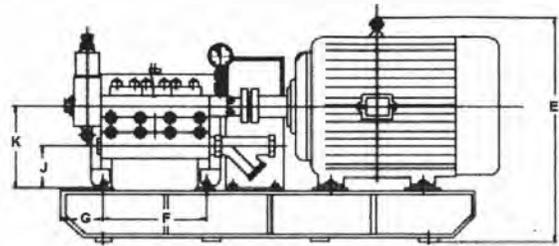
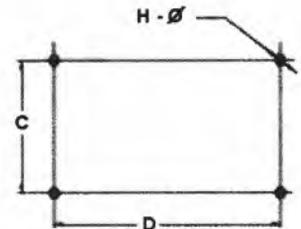
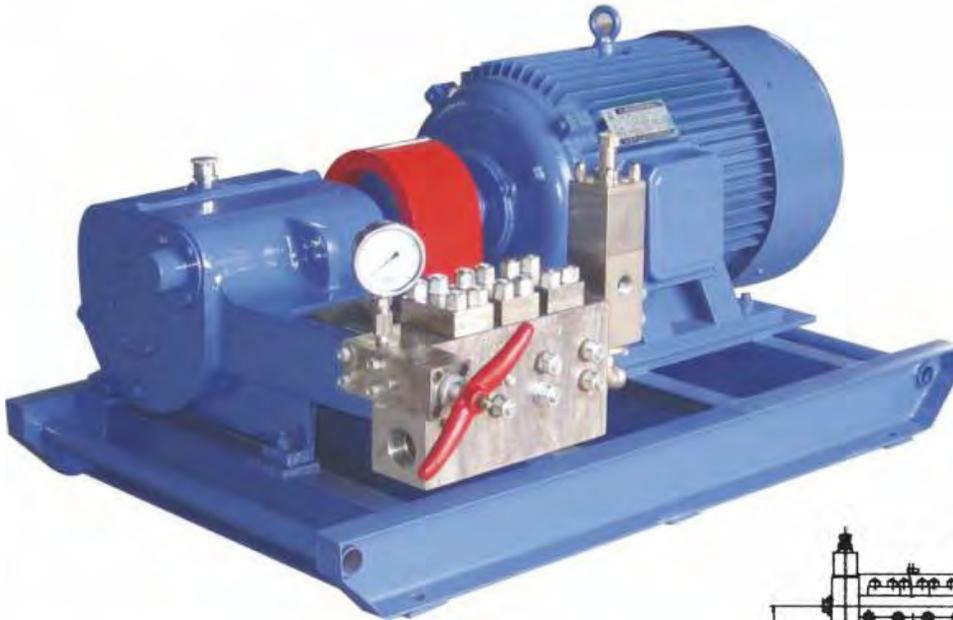
Model Numbers 120, 150, 200



PART	ITEM	MATERIAL	ASTM/AISI
Bracket	1	Cast Iron	ASTM25B
Pump Head	2	Stainless Steel	AIS1304
Mech Seal	3		
Discharge	4	Stainless Steel	AIS1304
Support Diffuser	5	Stainless Steel	AISI304
Diffuser	6	Stainless Steel	AISI304
Inducer	7	Stainless Steel	AISI304
Inlet Outlet Chamber	8	Stainless Steel	AISI304
Base Plate	9	Cast Iron	ASTM 8-55-06
Impeller	11	Stainless Steel	AIS1304
Shaft	12	Stainless Steel	AIS1304
Bearing	13	Tungsten Carbide	
Cylinder	14	Stainless Steel	AISI304
Coupling	15	Carbon Steel	
Rubber Parts	20	NBR	

PG Series Plunger Pumps

TDH Model PG75X50 Triplex Plunger Pump



TDH Attributes:

- ✓ Small overall footprint
- ✓ Light weight
- ✓ Low noise
- ✓ High efficiency
- ✓ Liquids and emulsions - 0-95 degrees Celsius.
- ✓ Two gear ratios
- ✓ Two Regulating Valves for constant output
- ✓ Safety Valve on discharge to ensure non overload
- ✓ Splash and force lubrication available

Motor Frame	A	B	C	D	E	F	G	H	J	K
Y225S	1400	700	650	1100	765	350	150	(4) - 24	143	201
Y225M	1400	700	650	1100	765	350	150	(4) - 24	143	201
Y250M	1500	700	650	1100	765	350	150	(4) - 24	143	201
Y280S	1600	820	940	884	820	350	150	(4) - 24	143	201
Y280M	1600	820	940	884	820	350	150	(4) - 24	143	201

PG Series Plunger Pumps

TDH 50 Cycle Selection Chart

Stroke mm	95
Motor Speed	1480
Gear Ratio	3.65
Pump Speed	405

Piston (mm)	m3/h	bar	Y225S-4		Y225M-4		Y250M-4		Y280S-4
			kW	bar	kW	bar	kW	bar	
22	2.4	450	37	510	45	630	55	-	75
25	3.0	350	37	450	45	560	55	750	75
26	3.4	320	37	400	45	500	55	680	75
28	3.9	280	37	350	45	420	55	580	75
30	4.5	250	37	300	45	380	55	500	75
32	5.1	220	37	260	45	340	55	450	75
35	6.1	180	37	220	45	280	55	360	75
40	8.1	140	37	170	45	210	55	380	75
45	10.2	110	37	130	45	170	55	220	75
50	12.6	90	37	110	45	130	55	180	75

Stroke mm	95
Motor Speed	1480
Gear Ratio	2.963
Pump Speed	499

Piston (mm)	m3/h	bar	Y225M-4		Y250M-4		Y280S-4		Y280M-4
			kW	bar	kW	bar	kW	bar	
22	3.0	450	45	560	55	750	75	-	90
25	3.9	350	45	450	55	580	75	-	90
26	4.2	320	45	400	55	550	75	700	90
28	4.8	280	45	350	55	480	75	580	90
30	5.7	250	45	300	55	400	75	500	90
32	6.3	220	45	260	55	360	75	450	90
35	7.5	180	45	220	55	300	75	360	90
40	10.2	140	45	170	55	240	75	280	90
45	12.9	110	45	130	55	180	75	220	90
50	16.0	90	45	110	55	130	75	180	90

PG Series Plunger Pumps

TDH 60 Cycle Selection Chart

Stroke mm	95
Motor Speed	1780
Gear Ratio	3.65
Pump Speed	488

Piston (mm)	m3/h	Y225M-4		Y250M-4		Y280S-4		Y280M-4	
		bar	kW	bar	kW	bar	kW	bar	kW
22	2.9	450	45	560	55	750	75	-	90
25	3.6	350	45	450	55	580	75	-	90
26	4.1	320	45	400	55	550	75	700	90
28	4.7	280	45	350	55	480	75	580	90
30	5.4	250	45	300	55	400	75	500	90
32	6.1	220	45	260	55	360	75	450	90
35	7.3	180	45	220	55	300	75	360	90
40	9.7	140	45	170	55	240	75	280	90
45	12.2	110	45	130	55	180	75	220	90
50	15.1	90	45	110	55	130	75	180	90

Stroke mm	95
Motor Speed	1180
Gear Ratio	2.963
Pump Speed	398

Piston (mm)	m3/h	Y250M-6		Y280S-6		Y280M-6	
		bar	kW	bar	kW	bar	kW
22	2.4	450	37	510	45	630	55
25	2.9	350	37	450	45	560	55
26	3.4	320	37	400	45	500	55
28	3.8	280	37	350	45	420	55
30	4.4	250	37	300	45	380	55
32	5.0	220	37	260	45	340	55
35	6.0	180	37	220	45	280	55
40	8.0	140	37	170	45	210	55
45	10.0	110	37	130	45	170	55
50	12.4	90	37	110	45	130	55

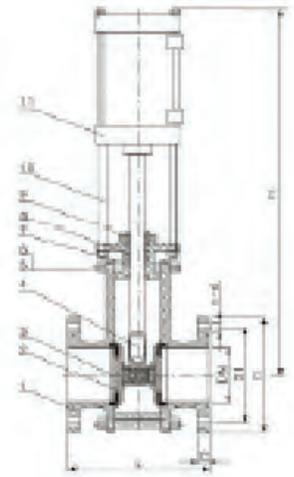
PNEUMATIC DOUBLE DISC GATE VALVE

Pneumatic Double Disc Gate Valve

Pneumatic double disk gate valves are commonly used in the mining, paper making, and chemical industries. The valve plate and seat are made from highly durable ceramics making them ideal for abrasive slurries.

This valve can tolerate 1.0 MPa of pressure and up to 200°C. The valve mid body is welded WCB steel and a seamless steel tube.

The pneumatic load required for opening is very low, it has high wear resistance, and good sealing performance — making this the ideal choice.

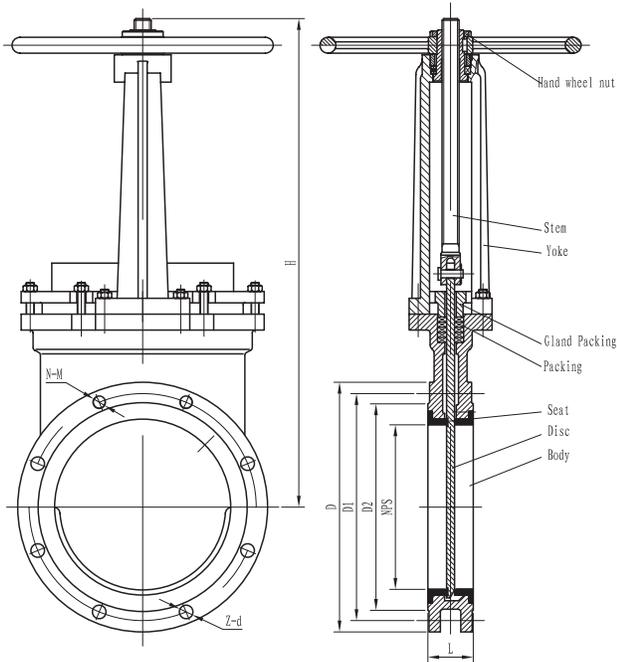


Technical Specifications

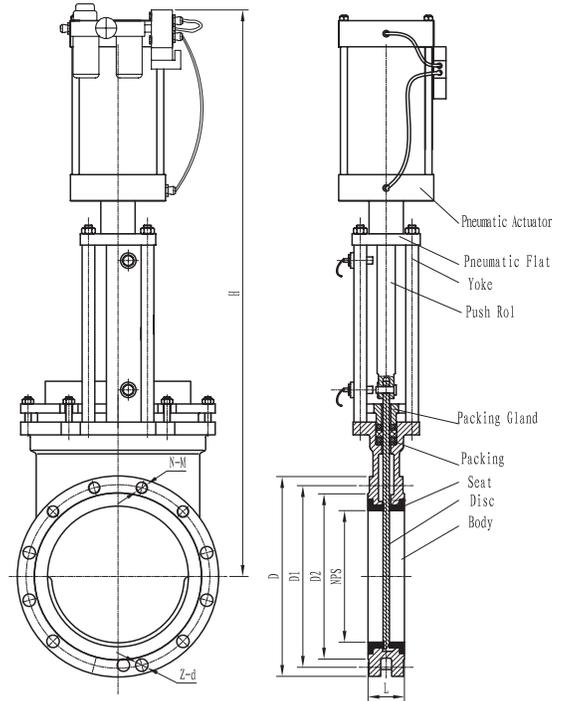
NO.	PART NAME	MATERIAL
	Connection Dimension	Face to Face Dimension/Flange
	Material Science	Carbon Steel/Stainless Steel
1	Body	WCB
2	Valve Plate	Composite Engineering Ceramics
3	Valve Seat	Composite Engineering Ceramics
4	Stem	2Cr13
5	Studs	35CrMoVA
6	Nut	25
7	Midbody	WCB
8	Packing	Flexible Graphite
9	Packing Gland	2Cr13
10	Holder	Q235
11	Pneumatic Actuator	

VALVES

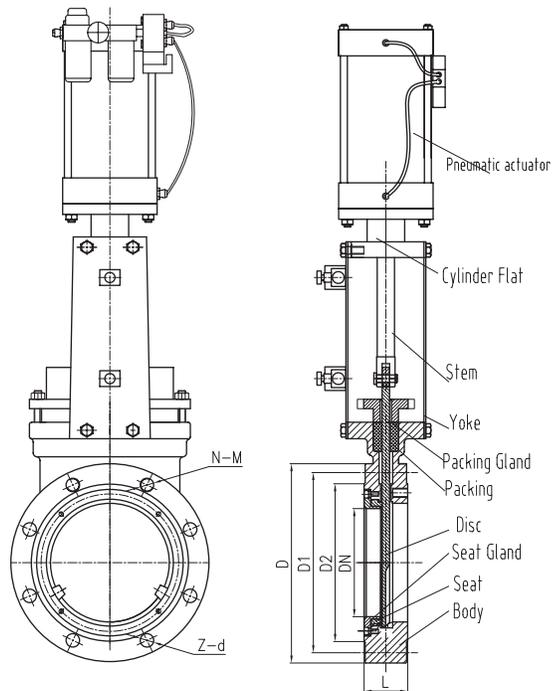
Handle Knife Gate Valve



Pneumatic Knife Gate Valve



High Pressure Knife Gate Valve



ENGINEERING & LAB SERVICES



All of our customer support needs can be met with a combination of “in house” service personnel, full time engineering staff, professional chemists, contract service representatives, and a growing dealer network.

In house, we offer the following services and analytical capabilities:

Design and Build Services

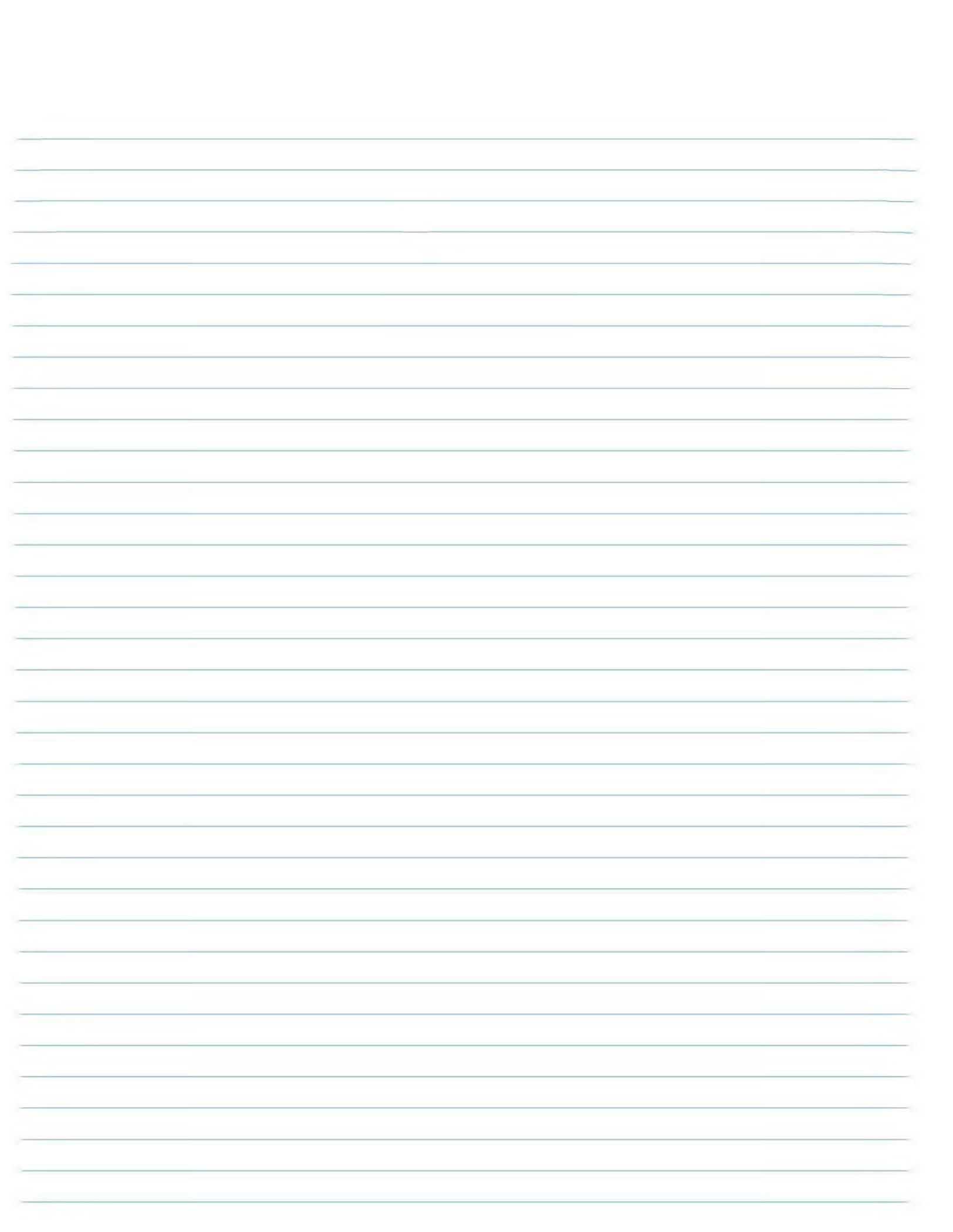
- Plant lay-out drawings
- P&ID diagrams
- Flowcharts
- Stoichiometric and mass balance calculation

Consultation Services

- Tailings waste analysis for possible beneficial uses
- Diagnosis, retro-fit, and design improvement of competing filter presses (and other equipment)

Laboratory Capabilities

- Testing services
- Sieve size particle distribution
- Particle size by laser diffraction
- Shape and surface analysis by Stokes Law settling
- Elemental analysis by x-ray fluorescence (XRF)
- Mineral analysis x-ray diffraction (XRD)
- Novel waste usage technologies (eg enzymatic stabilization, unique binders, mechanical activation, fly ash activation)



PROCESS EQUIPMENT

Belt Presses • Clarifiers • Cyclones • Dewatering Screens • Filter Presses • Thickeners
• Flocculant Blending • Toshiba Flow Meters • Non-Nuclear Density Meters • Slurry
Pumps • Valves

AUTOMATION AND CONTROLS

Ultrasonic liquid level controllers • PLC, HMI and VFD Programming • Flocculate
batching systems • Flocculate metering systems

LIQUID/SOLIDS SEPARATION CHEMICALS

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PIPE | HDPE

Custom made HDPE fittings • Electro fusion couplers • Fusion
machines • Rubber lined steel pipe • Ceramic lined elbows & fittings

FILTRATION SYSTEMS

Water • Oil • Fuel • Hydraulic

SCREENS

Dewatering • Incline screens • Horizontal screens

SLURRY PUMPS AND VALVES

Horizontal Slurry Pumps • Vertical Slurry Pumps • Pneumatic, Manual Pinch Valve •
Electric and butterfly valves • Butterfly and cheek valves

WASH PLANTS

Complete (design and build) • Portable • Skid mounted

ENGINEERING & LAB SERVICES

Engineering design build • Turnkey systems • In-house lab testing •
Beneficial uses • Consultation



United States

13 Carry Way, Mound House, NV 89706
Tons Per Hour: 916-663-3800

International Sales: 916-834-0770