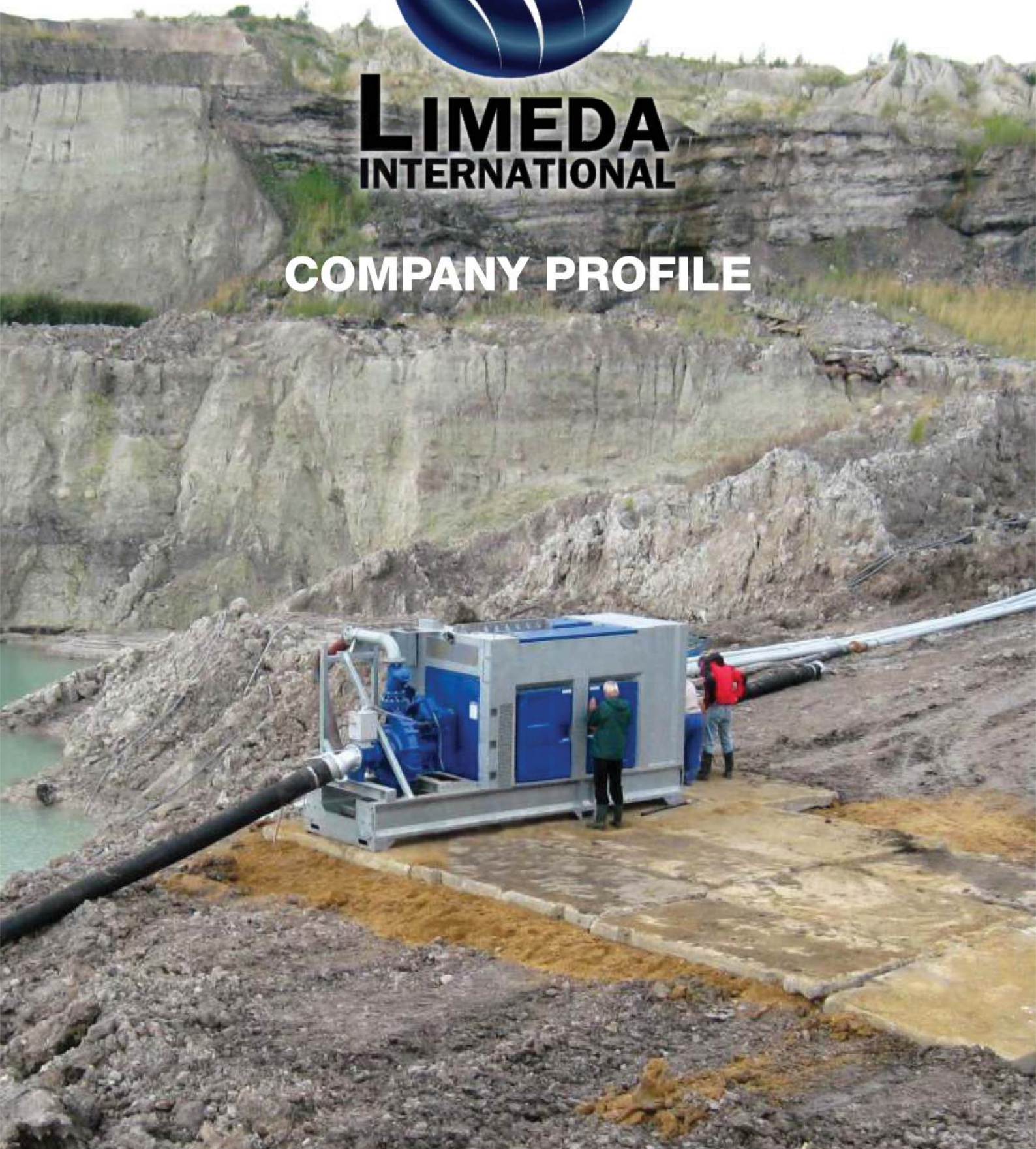




LIMEDA
INTERNATIONAL

COMPANY PROFILE



Beyond Pumps · TOTAL FLOW SOLUTIONS ·

PT. Limeda International focused in dewatering and slurry handling management since 2009. Our ultimate goal is helping customer to achieve the lowest cost in drainage and dewatering operation. We offer the best total solution in water and slurry management.

Market Application:

- Mining and Mineral
- Oil and Gas
- Municipal
- Construction

Product Application:

- Mobile Pump Station
- Dredger
- NEMA – Suction Cutter Head
- Submersible Dredger Pump
- Tunnel Pump
- Water / Waste Water Treatment Plant

After Sales Service & Product Support:

- Single supplier for parts, spares & accessories
- Dedicated customer help-desk (24h service)
- Dedicated service department in-house
- Global parts distribution network
- Optional global on-site servicing available
- Extensive training options available (technical & commercial), on-site or in-house



Beyond Pumps · TOTAL FLOW SOLUTIONS ·



Mobile Pump Station



BA Series Auto Prime Pumps

High Flow Pump

Within the BA series we carry a range of pumps specifically designed for high flow applications. These pumps commonly find their use in the field of flood protection or for providing additional capacity for pumping stations.



Features :



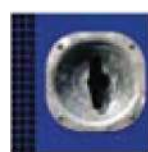
Cycloseal

Cycloseal design, with its unique deflector vanes, works with the impeller back vanes to create a cycloaction. This action removes solids and abrasive matters from seal area.



Speedy Servicing

The pump and diesel engine and mounted on subframe which can be easily removed from the canopy to facilitate maintenance and servicing.



Safety

Extremely durable and lockable Tools offering perfect gfp.



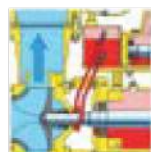
Interchangeable parts

Modular construction to ensure minimal spare part stock levels.



Fuel Tank

Fully bundled, corrosion-free, 300 liter. highdensity polyethylene (HDPE) fuel tank, located in base of canopy.



Run-dry option

All of the pumps in BA series are designed to run dry for longer periods . The mechanical seal is cooled by an external of circulation system.



Cardan shaft

Cardan shaft between pump and diesel engine for smooth operation, assembly angle 2,5"-3"



Double Vacuum Pump

Diaphragm pump. Aircooled, water-resistant and oil spillage free. Air capacity of 100 m3 per hour.

BA Series

World-class performance

The BA series has been designed to be deployed on the most demanding applications. Using high efficiency pump-ends in combination with sophisticated diesel engine technology, the BA range offers maximum performance at minimal running costs.



PT Series

An investment that pays for itself

The PT wellpoint pump has been designed for vertical and horizontal dewatering applications. These positive displacement pumps are fully self-priming and are capable of handling air, water or any mixture of both without requiring a separate priming system. Furthermore, these pumps are capable of running dry indefinitely without causing damage or excessive wear to any part of the unit.



Mine Dewatering Pump

An investment that pays for itself

The PT wellpoint pump has been designed for vertical and horizontal dewatering applications. These positive displacement pumps are fully self-priming and are capable of handling air, water or any mixture of both without requiring a separate priming system. Furthermore, these pumps are capable of running dry indefinitely without causing damage or excessive wear to any part of the unit.



Vertical Flood Pump

High-Capacity Submersible Pumps

Submersible mixed-flow pumps are single-stage centrifugal pumps with a submersible motor and axial or mixed-flow impeller, designed for high-volume water movement at low heads. Capable of flow rates up to 9,000 m³/h, they handle slightly to moderately contaminated liquids like grey water, river water, and activated sludge (up to 3% consistency). These pumps are widely used in water treatment and industrial, wastewater, and stormwater systems, with flexible installation options to suit different requirements.





Beyond Pumps • TOTAL FLOW SOLUTIONS •

TFS Mine Dewatering

The TFS Mine Dewatering range of pumps have been designed with a clear focus on reliability, efficiency and durability. Featuring a 100% mechanical priming system, the TFS series pumps quickly prime and re-prime, event from dry conditions. The heavy build style of both pump and platform make the TFS Mine Dewatering range perfect for use in the Mining Market applications.

Advantage Features :

- Pumping performance
- Reliability
- Easy Maintenance
- Safety
- Working Environment

Run-dry option

All of the pumps in the BA series are designed to run dry for longer periods. The mechanical seal is cooled by an external oil circulation system.



World-class performance

The TFS range is built to be deployed on the most demanding dewatering and sewage by passing applications. Using high efficiency pumps and state-of-the-art diesel engine, the pumps offer maximum performance at minimal cost, fully in-sync with the company philosophy of "Lowest cost of ownership".

Easy Maintenance :

Engine Oil and coolant Drain fast fill services

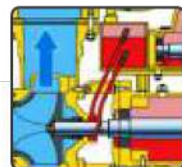
Centralized fast filling to drain and fill oil and coolant engine



Reliability :

Cycloseal®

Cycloseal® design, with its unique deflector vanes, works with the impeller back vanes to create a cycloaction. This action removes solids and abrasive material from the seal area.



Safety :

LOTO BOX

Centralized electrical safety system, lockout switch, emergency shutdown and battery jump start.



THERMAL INSULATION BLANKET

Insulation blanket to hold exhaust line temperature as safety protection.



COOLANT LEVEL GAUGES

Coolant level gauge and switch protection for engine coolant level.



TFS APAR

Overall height	: 635 (mm)
Tube diameter	: 160 (mm)
Working	: -20 S / d 60 (°C)
Pressure in the tube	: 15 (Bar)
Test pressure	: 25 (Bar)
Spray time	: 23 (Seconds)
Spraying distance	: 4 S / d 13 (M)
Effective spraying	: 95 (%)
Total weight	: 11.5 (kg)
Fire rating	: 12a 60b



Working Environment :

TFS Smart FEATURES

- Auto start/stop system
- Complete engine management via engine computer system
- Engine load monitor
- Fuel Consumption monitor
- Turbo boost monitor
- Engine Oil pressure monitor
- Engine temperature monitor
- Overload Protection
- Hour meter

- Programmable service interval control
- Automatic engine speed ramping to flow/pressure/time
- Discharge pressure monitoring
- No Flow Protection
- Pump Volute Temperature monitoring
- External start stop facility
- Design to provide stage pump dewatering with optimum control
- Shutdown Idle Timer



Sae Direct Mounted Pump

1. Highest efficiency pump
2. Never has misalignment
3. Longer bearing life in pump
4. Longer seal life in pump
5. No drive coupling issues



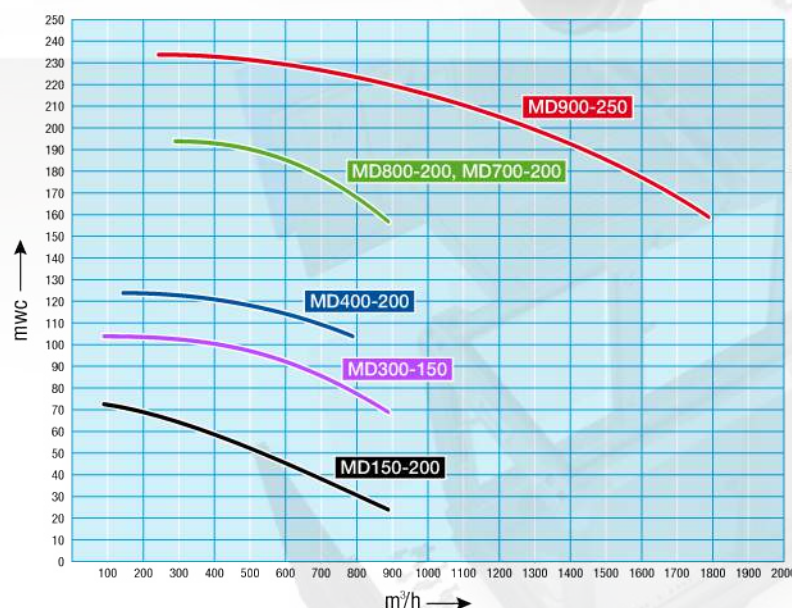
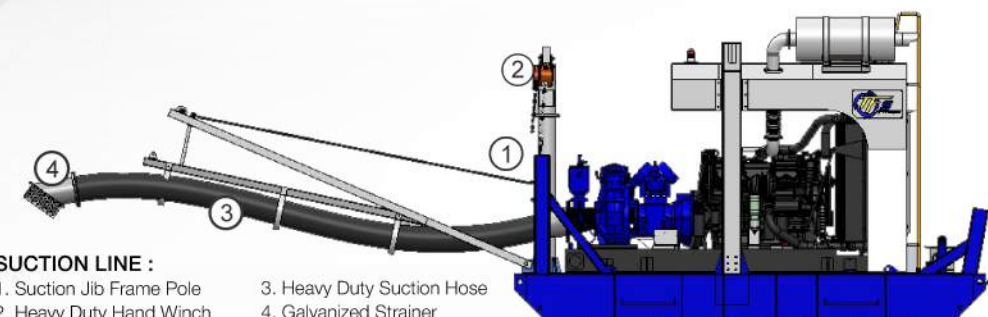
Interchangeable parts

Modular construction to ensure minimal spare part stock levels.



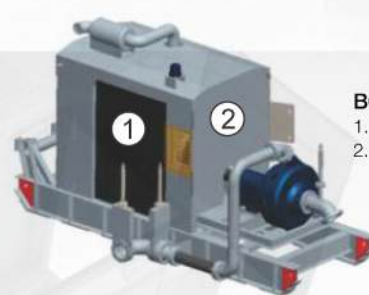
SUCTION LINE :

1. Suction Jib Frame Pole
2. Heavy Duty Hand Winch
3. Heavy Duty Suction Hose
4. Galvanized Strainer



BOOSTER APPLICATION :

1. Blasting Protection
2. Pump & Engine room separator



SIDE STEP PLATFORM



Amphibious Dredger

DREDGES

- High versatility work on land and water
- Tracked wheels in cooperation with international standard manufacturer
- Wide working area thanks to a strong hydraulic crane
- Easy to handle: No winches or propeller needed

- Comfortable operator cabin and pump control panel
- Modular design for container or standard truck transportation



Working Environment



Amphibious Pontoon



Booster Pump



Beyond Pumps - TOTAL FLOW SOLUTIONS -

SP Series - Slurry Pump

The solid concentration can vary from 10% to 50% pump capacity due to the kind of material to be pumped, the delivery distance, the working depth and the static head. You get the max production with soft sand and silt both well diluted whilst the efficiency decrease significantly with hard and plastic clay.

According to the delivery distance, the static head and working depth, the pump changes the working point on the performance curve and

as a consequence capacity and production. Of course, the estimated production will be calculated in relation to your application data.



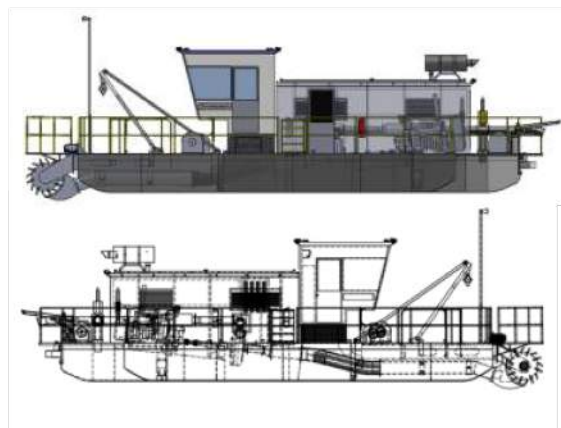
Main Drive HP		300 - 800 hp
Capacity		100 - 1500m³/h
Head		up to 110m
Material Handling	Material Type	soil, sand, mud, clay, gravel
	pH handling	-1 up
	Temperature	up to 100 °C
	Weight % solid	60%
	Volume % solid	Inust
	Application	Mining



DREDGES



LIMEDA INTERNATIONAL



NEMA Series TFS Dredges has been specially developed to meet requirements of mining industry. These dredges operate under very harsh conditions and are structurally reinforced to enable operations staff to drag the dredges from slurry and setting ponds onto the surrounding hard rock embankments either for maintenance purposes or recovery from blast area.

		NM300	NM400	NM600
General	Hull Length (centre/side)	9m / 12m	9m / 15m	10.5m / 15m
	Hull Width (centre/side)	3m / 1.2m	3m / 1.5m	3m / 1.5m
	Hull Depth (centre/side)	1.2m / 1.2m	1.5m / 1.5m	1.5m / 1.5m
Dredge Pump	Suction	8	10	12
	Discharge	6	8	10
	Flow (lps)	170	320	240
	Head (m)	20	70	80
Digging Depth	Maximum (m)	5	6	6.5
Drive	Diesel Engine	CAT C9	CAT C13	CAT C18
	HP	300	415	600
Pump Drive	Production Gear Box Ratio	2 : 1	2 : 1	2 : 1
Cutter	Cutter Power	40 HP	60 HP	75 HP
	Cutter Force	2000 Kg	2500 Kg	3000 Kg
	Cutter Speed	0 – 25 rpm	0 – 30 rpm	0 – 30 rpm
	Cutter Diameter	700 mm	800 mm	900 mm
Swing Winch	Line Pull – First Layer	3 Ton	4 Ton	5 Ton
	Line Speed – First Layer	20 m/min	20 m/min	20 m/min
	Wire Size	12 inch	5/8 inch	5/8 inch
	Drum Capacity	200 m	150 m	150 m



The innovative NEMA suction dredger cutters and wheels are manufactured by TFS, enabling dredging in a variety of applications and industries ranging from heavy mining operations to canal reclamation work. The cutters and wheels are economical, compact, and robust.



All TFS dredges are fitted with NEMA-designed marine winches. NEMA winches are produced at TFS for a variety of marine applications with line pull up to 350 tonnes.



Sheave blocks, swing sheaves, and other equipment are all NEMA-designed and manufactured in-house at TFS.



Typical dredge operator's view, chair, and controls.

Submersible Dredge



When submersible pump is attached with D Type maneuver, the maneuver and movement of its unit become effective. Its secret relies on a unit design that is suitable to conquer harsh environments. We understand that pumping slurry and sludge requires a reliable design because flexibility in handling operations and deep maneuvering becomes the heart of the activity since the unit works in narrow and steep ponds.

Application : Sump / Pond Level

Electric Submersible Dredge



The **AGITATOR** prevents solids from blocking the pump inlet by mixing them with the liquid, creating a slurry that can be easily pumped



Parts are manufactured in **chrome** with hardness of approximately **600/650 Brinell**. This guarantees a long life for wear parts.



Pumps are designed to be able to pump mixtures with up to **70% of solids by weight**.

Containerized Slurry Dewatering System

A Smart Slurry Management Solution For Coal Mining

How It Works (Simple Process)



Slurry is fed into the system



Mechanical separation



Solids are removed (coal fines)



Water is discharged or reused

What It Does

- Separates slurry into solid and water components
- Reduces mud buildup and wet working conditions
- Improves site conditions and equipment accessibility
- Supports water reuse and environmental compliance

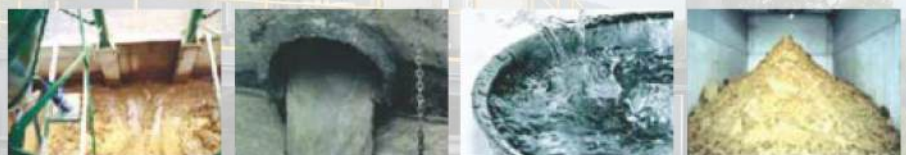
Key Applications

- Settling pond sludge treatment
- Coal slurry and runoff water management
- ROM and stockpile mud handling
- Pit area dewatering
- Emergency slurry handling during rainy seasons



Why Containerized

- Fast Deployment: Plug-and-play system with minimal civil work required
- Mobile & Flexible: Easily relocated between pits or ponds
- Scalable Capacity: Modular design allows multiple units to run in parallel
- Lower Operating Costs: Cuts down hauling, disposal, and handling expenses



Dewatering Process Equipment

Drying Sludge Tube

Dewatering

The dewatering and drying of sludge is a technology with low environmental impact and cost. It enables the on-site treatment of a wide range of both natural and contaminated fluid sludges. Dewatering features MacTube® geosynthetic tubes which are filled in-situ with a pumped slurry; the fluid drains through the fabric walls, leaving the solid residues within the tube. Once the residue has dried it can be disposed of far more safely and cost effectively than wet, slurried material. The use of site-specific flocculants is common to accelerate the filtration process. The system is simple and versatile; only minor adaptations are required to tailor the solution to each project site, enabling the treatment of both small and large volumes of material within a small work-area.

MACCAFERRI



Fields of application

- Soil or contaminated sediments (harbors, rivers, lagoons)
- Derivatives of mining processes
- Residues from the production of electricity
- Waste and by-products from the production of pulp
- Wastewater treatment plants
- Derivatives of industrial processes
- Farms and agriculture waste
- Aquaculture by-products
- Waste and arisings from drilling operations

Low environmental impact

- Minimal risk of spillage
- Absence of odor
- Mobile (non-permanent) operation
- Reversible civil works
- Ease of environmental restoration
- Potential to incorporate the filled tubes into the permanent works for site topographical remodeling (provided the residue is not contaminated)

Cost-effective

- Ease of transportation of equipment
- Simple to prepare and reinstate the work area
- Can treat large volumes of slurries within a small area
- Can be easily used even on rough, uneven or mountainous terrain
- Short duration of operations
- Efficient concentration and consolidation of solids
- Reduces the final volume for disposal
- Allows dry solids to be stored for future reprocessing

MEDAchem

Water Treatment For Coal Mining



Flocculant & Coagulant Solutions

Coal Mining Water Treatment Chemicals

High-Performance Flocculant & Coagulant Solutions for Coal Mining Operations

MEDAchem delivers specialized water treatment chemicals engineered for the unique challenges of coal mining operations. Our flocculation and coagulation solutions manage high suspended solids, fine coal particles, and variable water quality commonly encountered in coal handling and processing facilities.



1. Raw Mine Water (Slurry) → 2. Screening / Grit Removal → 3. Coagulation Process → 4. Clarifier / Thickener → 5. Treated Water → 6. Reuse / Recharge

Coal Mining Water Challenges

Coal mining operations generate large volumes of slurry and wastewater containing coal fines, clay, and high TSS levels. Efficient water clarification is essential to maintain plant reliability, reduce downtime, and ensure environmental compliance.

MEDAchem Flocculant & Coagulant Solutions

MEDAchem flocculants and coagulants accelerate solid-liquid separation in coal washing plants, thickeners, tailings ponds, and settling basins, resulting in faster settling rates, improved overflow clarity, and reduced dependency on large settling areas.

Key Coal Mining Applications

Key Coal Mining Applications	Operational Benefits
Coal Preparation Plants (CPP)	Faster settling of coal fines
Coal Washing & Screening Plants	Improved water reuse efficiency
Tailings & Sedimentation Ponds	Reduced pond residence time
Thickener & Clarifier Systems	Lower operating costs
Mine Run-Off & Wastewater	Environmental regulatory compliance



MED-FLOC



MED-LIME



MED-ROAD



MED-COAT



Smart Automation Technology For Pump Control & Monitoring

SKYS is an advanced automation and digital monitoring solution designed to enhance the capability, efficiency, and productivity of pumping systems by integrating intelligent assets and decision-support functions into one smart platform.

How SKYS Works

SKYS integrates multiple components into a seamless monitoring and control ecosystem:



An all-in-one automation solution for modern pump operations.

Key Solution 1:

Complete Pump Control System

- Advanced engine control system
- Multi-sensor data acquisition, including:
 1. Pressure
 2. Level
 3. Temperature
 4. RPM
- Compatible with pumps, submersible wastewater (SW), and inverter systems

Key Solution 2:

Online Pump Monitoring Network

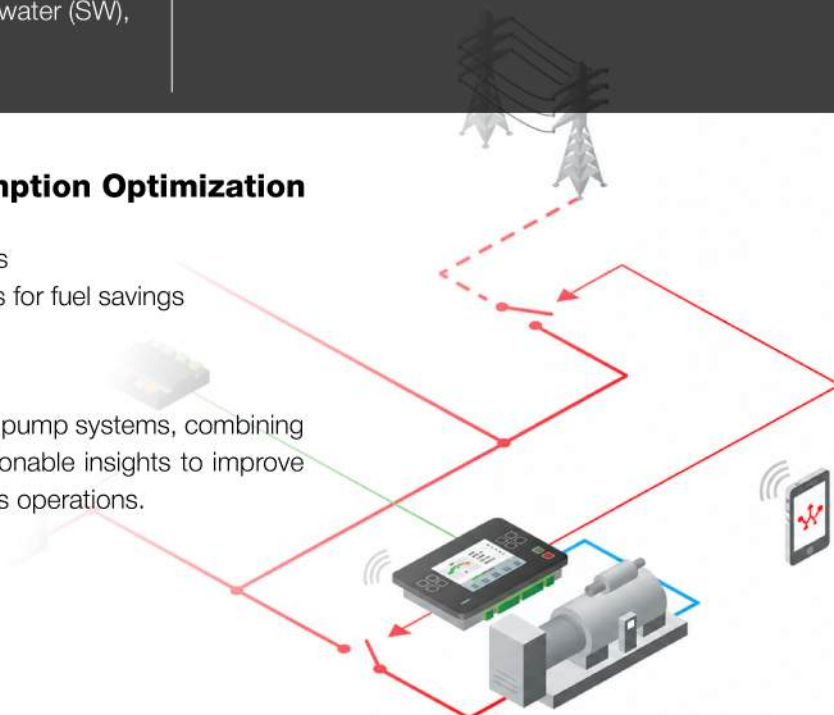
- Pump health monitoring for early issue detection
- Pump operation tracking in real time
- Reduce downtime
- Instant notifications and alerts

Pump Performance & Fuel Consumption Optimization

- Fuel consumption Monitoring
- Performance analysis to identify inefficiencies
- Detection of energy losses and opportunities for fuel savings

Why SKYS?

SKYS delivers end-to-end automation for mining pump systems, combining real-time monitoring, intelligent control, and actionable insights to improve reliability, efficiency, and cost performance across operations.



Industrial Piping System

For Dewatering & Slurry Operation

Reliable HDPE Pipes And Heavy-Duty Rubber Hose For Mining and Water Transfer Applications

HDPE Pipes



Engineered for demanding industrial applications that require maximum reliability. Provides superior abrasion resistance, high flexibility, and long-term corrosion protection ideal for long-distance water transfer and high-pressure dewatering systems

Key Strengths

- High tensile and impact resistance
- Long service life in harsh mining environments
- Low friction loss and smooth internal surface
- UV and chemical-resistant
- Suitable for both permanent and temporary installation



HDPE Pipes



A cost-efficient solution without compromising structural durability. Designed for large-scale infrastructure where long pipeline lengths and stable performance are critical.

Key Strengths

- Excellent balance of performance and value
- Consistent pressure rating for extended pipeline runs
- Strong resistance to soil movement and ground settlement
- Fast and easy jointing compatibility
- Proven for slurry and water transfer operations



Rubber Hose – Industrial Heavy Duty



Flexible hose for suction and discharge in dewatering and slurry systems. Built to withstand high pressure, abrasive materials, and extreme field conditions ensuring reliable connection between pumps and fixed pipelines.

Key Strengths

- Reinforced construction for high working pressure
- Superior abrasion resistance for slurry and sediment transport
- Corrosion, weather, and UV-resistant rubber compound
- High flexibility for rapid setup and system relocation
- Compatible with all Limeda pumping and dredging systems



Galleries

1. Adaro Project - Mud Handling



2. KPC Project - Dredger Sales



3. SIS Sambarata Project - Pump Sales



4. Dredging Malahayati

5. Sand Dredging Ketapang



Galleries



TFS Mine Dewatering on Duty



Cabin Control TFS Dredger



TFS Dredger on Duty



Separation on plant for processing of excavated river bed



Separation plant for processing of coal dust slurries



Discharge material separated according to particle size and type of solid



Coal washing Application





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