



COMPANY PROFILE

MINERAL TECH PRO





MTP PRODUCTS LIST

SEDIMENTATION

- High-Rate Thickeners
- Conventional Thickeners

SCREENING SYSTEM

- Vibrating Screen & Feeder
- Trash Screen
- Trommel

MIXING TECHNOLOGY

- Agitators
- Attrition Scrubber

REAGENT PREPARATION & DOSING SYSTEMS

- Automated
- Manual

MINERAL TECH PRO (MTP) is a company whose mission is to deliver new mineral processing solutions into strategic global growth markets, and to develop existing technologies to their full potential, thereby adding value to our customers and the environment and to provide Clients with a 'tailored' solution to meet their detailed needs.

Powered by strategic partnerships with international associates with a wealth of expertise in the realm of Mineral Processing equipment.

Strong domain knowledge, stringent adherence to industry standards, strict quality compliance and unflinching commitment to customer satisfaction constitute the fundamentals of everything we do at Minera Tech Pro

Mineral Tech Pro approach is to be able to support with the following services:

- Capital equipment supply including all associated documentation for after market support.
- Specialised engineering services for installation, site start up and process fine tuning.
- Ongoing maintenance support and spare part supply.



Sedimentation

- High-Rate Thickeners
- Conventional Thickeners



Mineral Tech Pro have designed a new range of Thickeners & Clarifiers specifically for Mineral Industry applications with Heavy Duty Drive units, diameters of up to 100m all of which incorporate an innovative feed dilution system.

Thickeners tanks and wetted parts will be available in carbon steel, stainless steel or special steel construction.

Up to 35m diameter all thickeners will have a central bridge mounted drive.

For 35m to 40m diameter thickeners designs are available with either central bridge mounted drives or with central column mounted drives. The choice between bridge mounted and central column mounted drives is dependent on the local site economics and Client choice.

Mechanical or hydraulic drives are available in the sizes up to 20m diameter and hydraulic drives above 20m diameter. Rake lifting is available on all designs of thickeners.

Drive heads rated for up to 7.5 million Nm are available.

Thickener Ranges

MTP Series A	Direct drive with rake lifting.
MTP Series B	Direct Drive with rake lifting and slewing ring
MTP Series C	Centre column design up to 6 million Nm
MTP Series D	Centre column design up to 12 million Nm
MTP Series Ea	Hi Torque for paste thickeners under 25m diameter
MTP Series Eb	Hi Torque for paste thickeners over 25m diameter

The MTP designs offer the most up to date concepts and thinking on Thickener & Clarifier process and mechanical design.

MTP Drive heads of all sizes are available as replacement driveheads and each one is built to the same high standards as the driveheads supplied as original equipment.



Screening System

Features

- **Screen Box & Frame:** The structural body that holds the decks; often built with Huck bolts rather than welding to prevent fatigue cracking from constant vibration.
- **Vibration Motor:** The "heart" of the machine that generates motion using eccentric weights to create circular, linear, or elliptical trajectories.
- **Screen Media (Mesh):** The actual sifting surface, available in woven wire, polyurethane, or rubber to balance wear life, noise reduction, and open area.
- **Suspension System:** Uses steel coil springs or rubber springs to isolate the high-intensity vibrations from the surrounding support structure
- **Multi-Deck Configuration:** Machines can have 1 to 4 decks, allowing for the simultaneous separation of materials into multiple size grades.
- **Adjustable Parameters:** Operators can fine-tune the vibration frequency, amplitude, and deck inclination angle (typically 15°–25° for inclined screens) to match specific material needs.

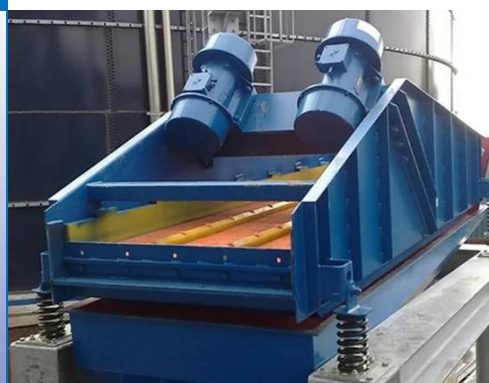
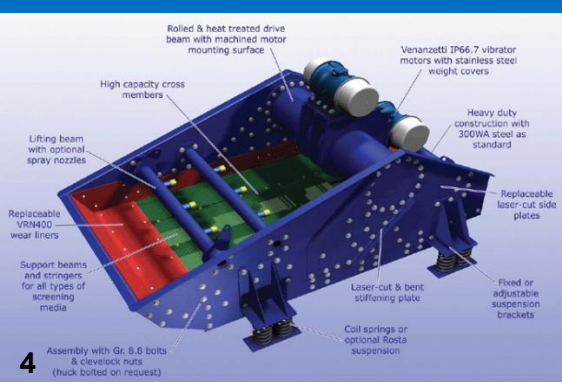
MTP Vibrating Screens are custom designed to suit process requirements, unique mounting positions and feeding arrangements. The vibrating screen are robustly designed and driven by twin or multiple vibrator motors or exciter gearboxes. The vibrating screen types are designed for use in various applications in light-, medium- and heavy-duty executions. These include:

- De-watering vibrating screens
- De-sliming vibrating screens
- High frequency vibrating screens
- Scalping vibrating screens
- Sizing vibrating screens
- Pan Feeders
- Linear Trash Screen

The vibrating screens are of modular design. All parts are replaceable should future replacement be required. Adjustable suspension angles, adequate wear protection of exposed parts and high capacity cross members and stringers are also incorporated into the design. The screens are able to withstand the high acceleration forces associated with vibration. It is accurately designed with the correct stroke/ speed ratio for the screening aperture used. It is available in either circular or linear motion configuration. Various types of screening media is available to suit the required application.

De-watering Vibrating Screen

Linear Trash Screen





Features:

- We offer the complete range of mixers / agitators (top entry) for chemical, mineral, Fertilizer, Food, Environmental, Metallurgical, and Pharmaceutical etc. Our standard models extend from **0.37 kW** portable agitators to **250 kW** heavy duty units ranging from **0.1m³ to 5000 m³**.
- **Flow Patterns:** Depending on blade design, agitators create either axial flow (parallel to the shaft, good for low viscosity) or radial flow (outward toward tank walls, ideal for high viscosity and gas dispersion).
- **Uniformity & Homogenization:** They ensure ingredients stay evenly distributed, preventing separation or settling.
- **Drive Systems:** Agitators use direct drive motors for high-speed, low-viscosity tasks or geared drives for high-torque, low-speed mixing of thick materials.
- **Construction Materials:** Typically built from SS304 or SS316 stainless steel for corrosion resistance, with optional rubber or FRP coatings for abrasive slurries.
- **Baffles:** Used in low-viscosity tanks with central agitators to prevent vortex formation and ensure actual mixing instead of just rotation.

Mixing Solution

MTP designs and manufactures Agitators catering for light, medium and heavy-duty applications. These applications may range from simple slurry storage in open tanks to complex chemical reaction systems under extreme conditions of temperature and pressure.

Medium to heavy duty Agitators is used predominantly in the mining, mineral processing, chemical, sewage and water treatment industries. The light duty range is predominately used in the food and pharmaceutical industries.

MTP Agitators

A detailed selection criteria are used in selecting the correctly sized agitator for customer specific process design information. Based on this information, MTP will determine the correct number, size and type of impellers required.

A gearbox and electric motor drive the predetermined wet end configuration. The drive assembly is mounted on a base plate which is adequately sized to withstand the forces associated with agitation. The wet end comprises of a solid or pipe shaft complete with bladed spokes and impeller blades. Blades can either be bolted or welded onto the spoke assemblies.

Impeller systems that would be considered are as follows:

- High efficient hydro-foil impellers or Hiflo blades
- 45- and 32-degree pitch turbines
- Flat blade turbine





Features:

MTP designs and manufactures turnkey modular Flocculant Preparation & Dosing Systems. These systems mix bagged dry flocculant powder with process water to produce a flocculant solution of the desired strength.

MTP Flocculant plants are designed as fully automated or manual systems and can mix between 10 and 11 000 kg/day of dry powder. Designs include auto mixing and auto diluting systems as well.



Flocculant Dosing Plants

ADVANTAGES

- Wide variety of capacities available
- Receiving hopper and volumetric screw feeder. Hopper is provided with bag breaker or bag discharge for larger units
- Educator-blower system to pneumatically convey flocculant powder to the mixing tank
- Wetting head for initial contact of dry flocculant with water
- Heavy-duty mixing tank and holding tank
- Mixing tank agitator designed for gentle mixing without damage to the expanded polymer
- Dosing pumps available with VFD's
- Local control panel with PLC

MTP provide compact and fully automated or semi-automated flocculant dosing plants which can be skid mounted for easy installation into Client's plant.

Core Components

- Storage Tank/Hopper: Holds dry powder or liquid flocculant concentrate.
- Mixing/Preparation Tank: Features an agitator to ensure a homogeneous, lump-free solution, often at a 0.25% concentration.
- Dosing Pump: High-precision metering pumps (diaphragm or screw types) deliver exact chemical volumes to the process stream.
- Control Panel: Uses PLC-based controls and sensors (turbidity, flow) to automate dosing based on real-time water quality.





After Market Support

Key Components of Aftermarket Support

- Field Service
 - Installation
 - Assembly
 - Mechanical Commissioning
 - Process Commissioning
 - Refurbishment
 - Maintenance
 - On Site Inspections
 - Training
 - Spares & Stock Holding Systems
- **Spare and Wear Parts Management:** Reliable support provides high-quality OEM or certified aftermarket parts, including wear liners, screen decks, and grinding media.
 - **Field Services and Maintenance:** On-site services include routine inspections, machine troubleshooting, Mechanical and Process Commissioning.
 - **Training and Operational Support:** On Going After Market Support including Training, Equipment Rebuild and Refurbishment
 - Post Start up Process and Maintenance Optimisation and Training



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