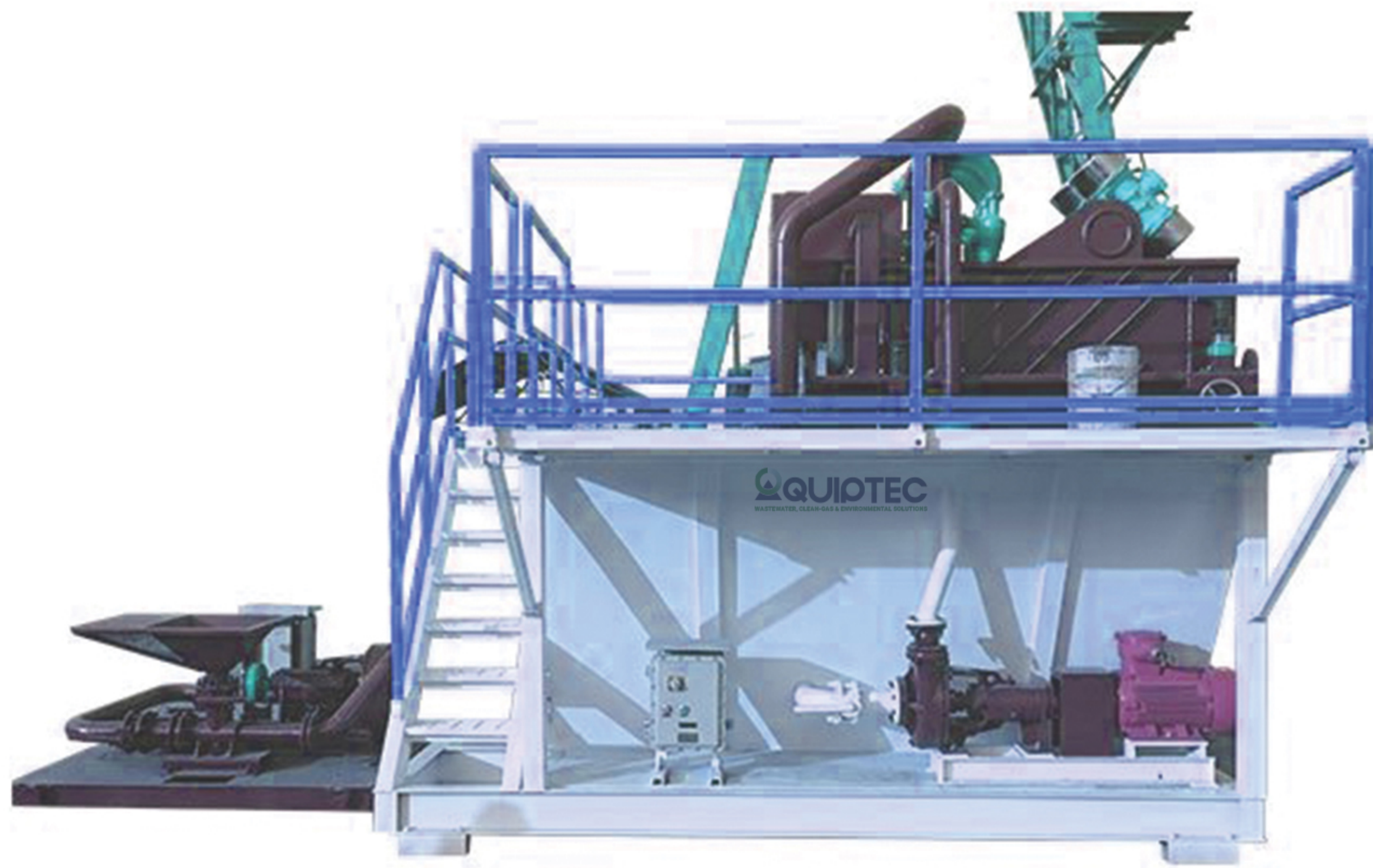


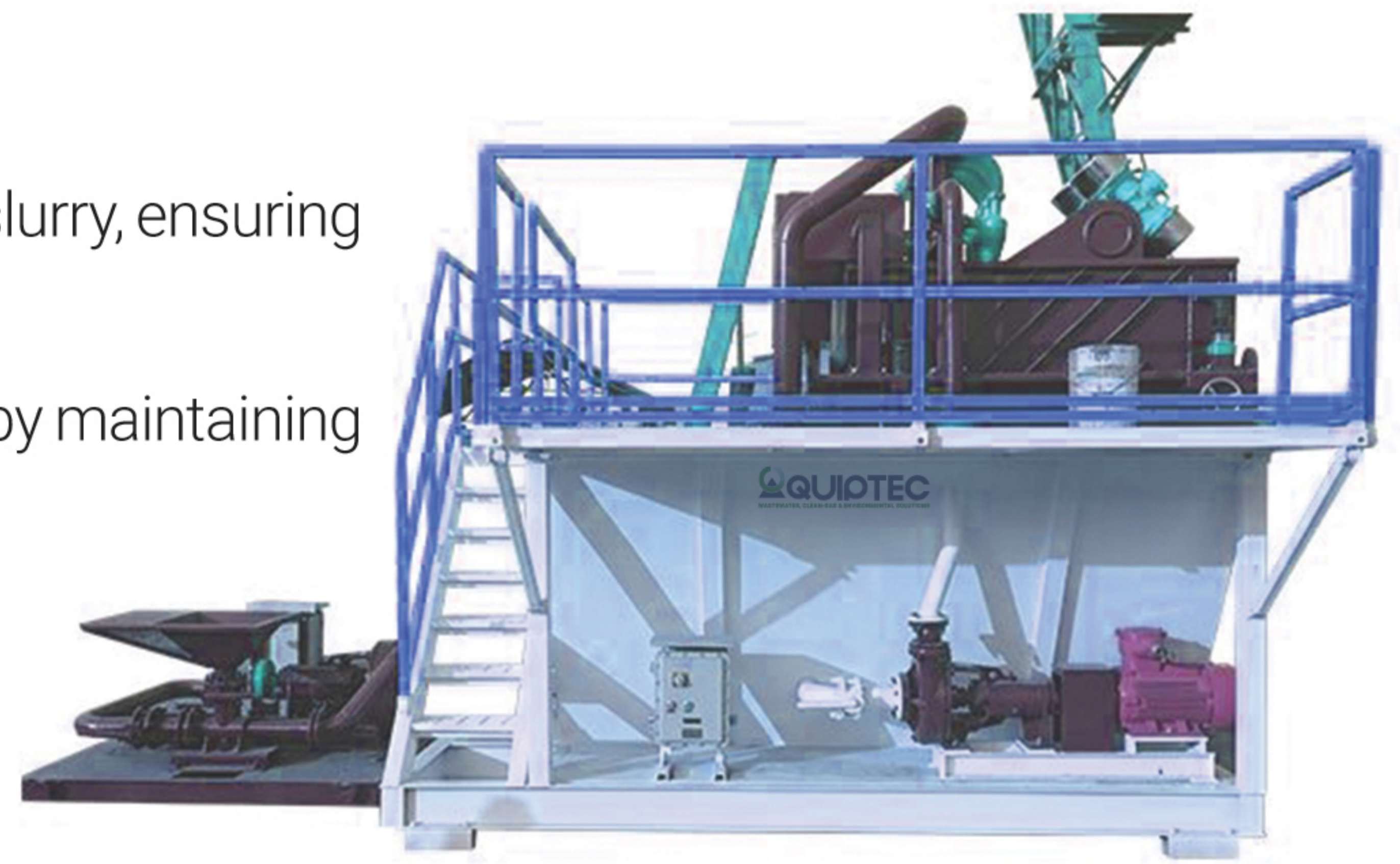
EQUIPMENT



SLURRY SEPARATION PLANT

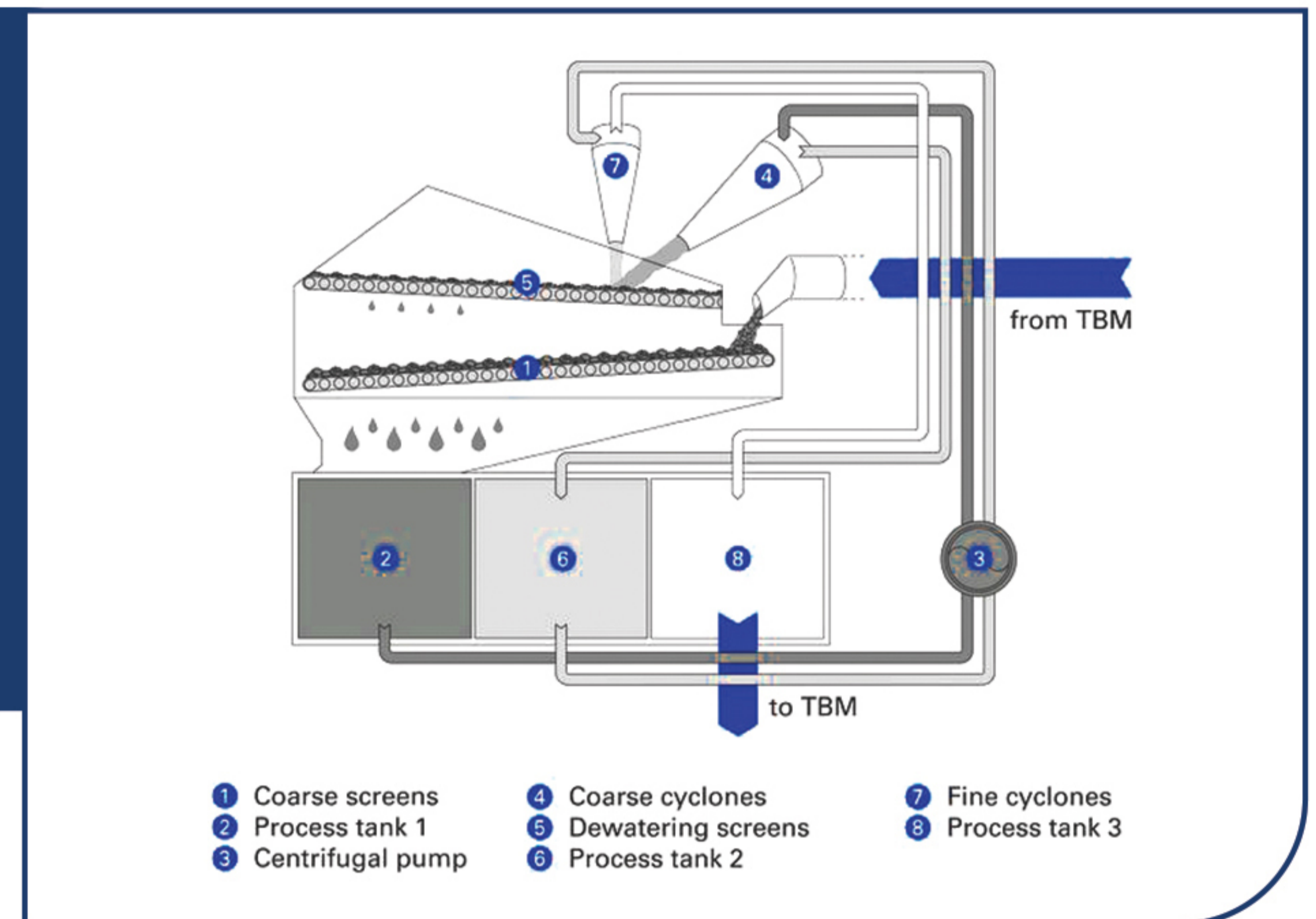
SLURRY SEPARATION PLANT

- **Efficient Slurry Separation:** Removes coarse and fine solids from slurry, ensuring stable performance during TBM operations.
- **Improved Operational Efficiency:** Supports continuous tunnelling by maintaining slurry quality and circulation.
- **Reduced Operating Costs:** Recycles slurry and reduces the need for fresh materials and waste disposal.
- **Compact & Modular Design:** Compact structure allows easy transport, installation, and integration on site.
- **High Separation Performance:** Combines high G-force shale shakers and centrifuges for efficient multi-stage separation.
- **Flexible & Customisable System:** Custom-designed configurations available to suit different TBM and project requirements.



Working Principle

The TBM (Tunnel Boring Machine) Slurry Separation Plant operates through a multi-stage separation process. The slurry first passes through a coarse shale shaker to remove large particles. It is then pumped to hydrocyclones for further separation of solids. A dewatering shaker removes remaining solids, while fine hydrocyclones separate smaller particles. Finally, a decanter centrifuge removes ultra-fine solids to achieve high-quality slurry recovery. Clean slurry is recirculated back into the TBM system, while separated solids are discharged for disposal.



Features

Standard Features

- Multi-stage separation system for progressive removal of solids
- Shale shaker for removal of coarse particles
- Hydrocyclones for intermediate and fine separation (above 20 microns)
- Decanter centrifuge for removal of fine solids (2–5 microns)
- Chemically enhanced centrifuge for removal of ultra-fine particles (down to approximately 1 micron)
- Double deck shale shaker for increased capacity with reduced footprint
- High G-force shale shaker for efficient coarse separation
- Integrated centrifugal pump system for slurry transfer
- Dewatering shakers for effective solids drying and discharge
- Complete system integration for continuous operation

Options & Accessories


- Customised system design based on project requirements
- Different capacity configurations for various TBM applications
- Additional hydrocyclone stages for enhanced separation
- Chemical dosing system for ultra-fine particle separation
- Advanced control systems and monitoring solutions

Specifications and Parameters

Model	AQT120
Treating Capacity (m ³ /h)	120
Separation Point d50 (µm)	15 – 44
Dimensions (m)	7.5 × 4.3 × 4.7
Total Power (kW)	97.38
Weight (kg)	10000

WASTEWATER, CLEAN-GAS & ENVIRONMENTAL SOLUTIONS



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