

Water Based Mud Treatment System



>>> Xi'an • China

energy

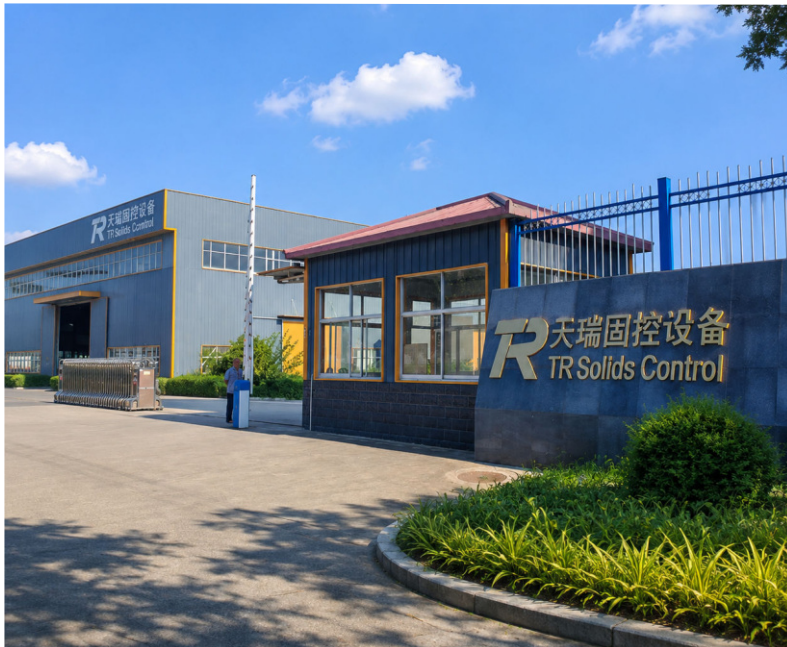


Q1

Registered
Manufacturer

TR Solids Control

- Established in December 2010, TR Solids Control is a professional manufacturer specializing in the R&D, production, sales and technical service of solids control equipment and mud recovery systems.
- Headquartered in Xi'an Economic and Technological Development Zone, the company covers an area of over 40 acres and employs 350-450 skilled professionals, including a dedicated R&D team of experienced engineers and technical experts.
- TR Solids Control has established a global presence, delivering reliable solutions to over 60 countries and regions across North America, South America, Europe, Asia, the Middle East and Africa.



About Us



Production Capacity

- Our company operates a modern manufacturing base covering a total area of approximately 35,000 square meters, including 22,000 square meters of standardized industrial workshops. We have established independent blanking, machining, welding, assembly, finished product inspection and warehousing & logistics centers, realizing a full-process closed-loop production system from raw material warehousing to finished product delivery.
- We have established a comprehensive quality control system, equipped with high-precision testing equipment such as coordinate measuring machines, ultrasonic flaw detectors, hardness testers and dynamic balance testing machines. All products are inspected in full accordance with international standards.



Company Qualification



Water Based Mud Treatment System

Introduction



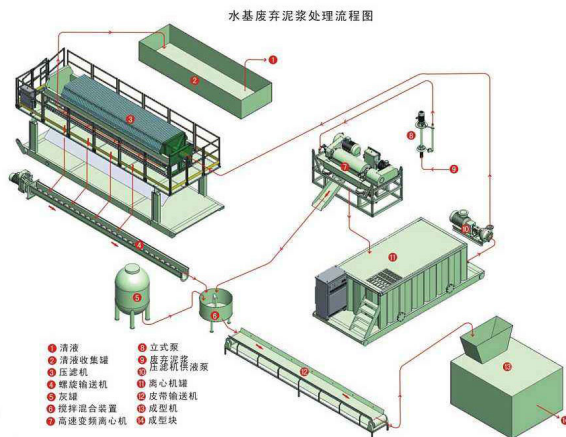
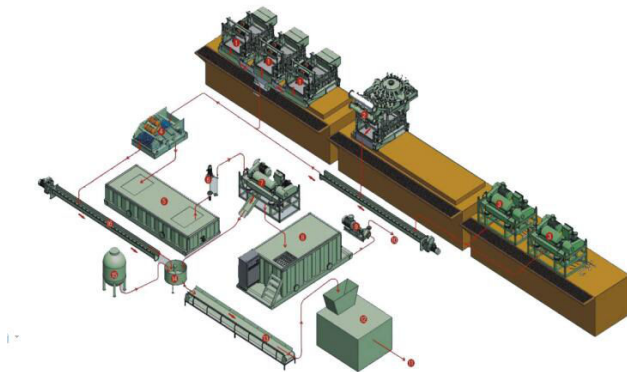
- The TR Water-Based Mud Treatment System is designed for the recycling and environmentally compliant treatment of water-based drilling waste. Widely used in oil & gas, shale gas, CBM, geothermal, and HDD drilling, it treats waste drilling fluids, cuttings, and sludge through efficient multi-stage solid-liquid separation, maximizing mud recovery and minimizing waste.
- The system includes shale shakers, conveying equipment, agitators, a chemical dosing unit, decanter centrifuges, slurry tanks, and an electrical control system. Standard and customized configurations are available for various applications.
- Featuring a modular design, high-efficiency separation technology, and intelligent control, the system delivers reliable operation, low maintenance, reduced disposal costs, improved mud recycling, and an efficient, environmentally friendly drilling waste management solution.



Water Based Mud Treatment System

Operating Principle

- The TR Water-Based Mud treatment System combines multi-stage solid-liquid separation, chemical conditioning, and mechanical dewatering to continuously treat waste water-based drilling mud. Waste mud is first collected and fed to the shale shaker, where coarse drill cuttings and large solids are removed. It then enters the conditioning tank, where flocculants and coagulants are automatically added to enhance solid-liquid separation.
- The conditioned slurry is processed by a decanter centrifuge or other high-efficiency separation equipment to produce low-moisture solids for collection, transportation, and disposal. The recovered liquid is either returned to the mud circulation system for reuse or sent to downstream treatment units, depending on site requirements.
- Waste mud is processed through mud collection, shale shaking, chemical conditioning, centrifugal dewatering, and solid-liquid separation, reducing waste volume, improving mud and water recovery, lowering transportation and disposal costs, and providing an efficient, reliable, and environmentally friendly drilling waste management solution.



Water Based Mud Treatment System

TR WBM Treatment System Features&Benefits

1

High-Efficiency Waste Treatment
Multi-stage solid-liquid separation reduces waste volume and moisture for environmentally compliant disposal.

Resource Recovery
Recovers drilling fluids and water, maximizing recycling while reducing fresh mud consumption.

2

3

Automatic Chemical Dosing
Intelligent dosing improves separation efficiency and ensures stable treatment performance.

Modular Design
Flexible configurations adapt to different drilling capacities, site conditions, and environmental requirements.

4

5

Intelligent Control
Integrated control system enables automated operation, real-time monitoring, and reliable performance.

Lower Costs & Eco-Friendly
Reduces transportation, disposal, and treatment costs while supporting green drilling operations.

6

No.	Equipment	Model	Qty.	Function
1	Screw Conveyor	LS450-14	1 Set	Material
2	Drying Shaker	TRZS854	1 Set	Coarse
3	Agitating	9000×2100×1800mm	1 Set	Slurry Storage
4	Flocculation	9000×2100×1800mm	1 Set	Slurry Transfer
5	Mud Agitator	TRJBQZ11	6 Set	Agitation
6	Chemical	1000×1000×1100mm	1 Set	Chemical Dosing
7	Mud Agitator	TRJBQZ2.2	1 Set	Agitation
8	Filter Press Feed	65ZJ	1 Set	Slurry Transfer
9	Filter Press	PXG250/1250	1 Set	Solid-Liquid
10	Filtrate	8000×2350×2150mm	1 Set	Filtrate



Xi'an Tianrui Petroleum Machinery Equipment Co., Ltd., established in 2010, is a modern manufacturer of solids control equipment certified to both API Q1 and ISO 9001 standards.

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