

HDD Mud Recycling System



>>> Xi'an • China

energy

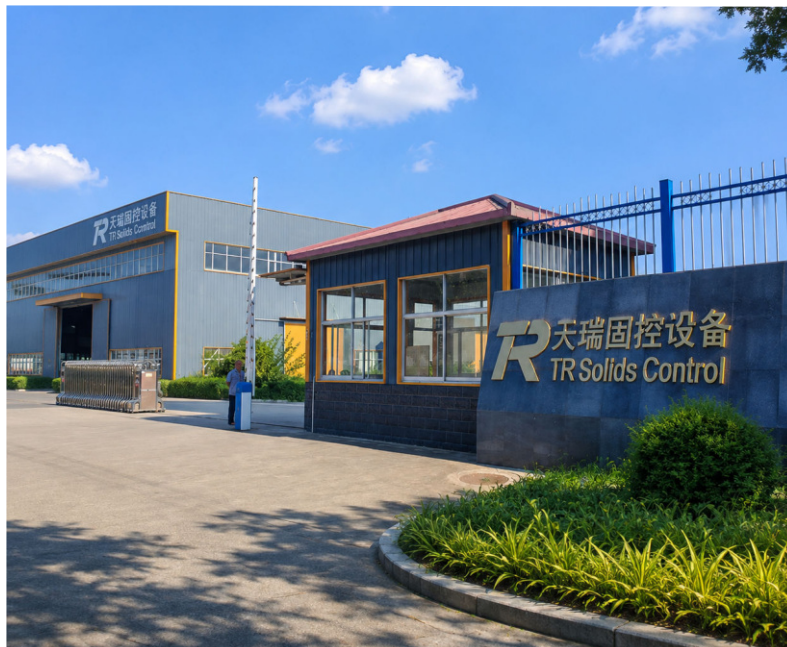


Q1

Registered
Manufacturer

About Us

- 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



HDD Mud Recycling System

Introduction



- The TR HDD Mud Recycling System is a drilling fluid circulation and purification solution designed for horizontal directional drilling (HDD). It integrates shale shaking, desanding, desilting, mud storage, mixing, and circulation for oil & gas pipelines, utility installations, municipal projects, and river crossings.
- The system removes drill cuttings, sand, and fine solids to maintain mud performance and improve drilling efficiency. It typically includes a shale shaker, mud cleaner, mud tanks, sand pumps, agitators, and an electrical control system, with modular configurations for different project requirements.
- With a modular design, compact structure, and efficient solids control technology, the system provides reliable operation, high recycling efficiency, easy transportation, and low maintenance. It reduces fresh mud consumption, lowers waste disposal costs, and delivers an efficient, economical, and environmentally friendly mud recycling solution.



HDD Mud Recycling System

Operating Principle

- The TR HDD Mud Recycling System adopts a multi-stage solids control process to continuously clean and recycle drilling fluid. Returning mud first passes through the shale shaker to remove coarse drill cuttings, then is pumped to the desander, where hydrocyclones separate larger sand particles.
- The mud subsequently flows into the desilter to remove finer solids, ensuring cleaner drilling fluid. The purified mud is stored in the mud tank, where agitators maintain uniform properties. Additives such as bentonite and polymers can be mixed as required before the mud is pumped back to the HDD rig for continuous circulation.
- Through the complete process of Shale Shaker ,Desander ,Desilter ,Mud Tank ,Mud Pump, the system effectively reduces solids content, maximizes mud recovery, lowers fresh mud consumption and waste disposal, and provides an efficient, reliable, and environmentally friendly mud recycling solution for HDD operations.



HDD Mud Recycling System

TR HDD Mud Recycling System Features & Benefits

1

Flexible Configuration

Adaptable to different HDD project sizes and geological conditions with modular equipment configurations.

2

Efficient Mud Recycling

Integrates desanding and desilting for multi-stage solids removal, maximizing mud recovery and reuse.

3

Compact Structure

Compact layout reduces site space requirements and enables fast installation, and commissioning.

4

Stable & Continuous Operation

Designed for long-term, reliable performance, ensuring a continuous supply of clean drilling fluid.

5

Lower Operating Costs

Reduces fresh mud consumption, waste treatment expenses, and overall project costs.

6

Environmentally Friendly

Minimizes waste discharge and environmental impact while improving on-site operational efficiency.

TR HDD Mud Recycling System Reference Configuration

Model	Capacity	Screen Area	Separation Stages	Total Power	Total Capacity
TRMR-200	50m3/h	2.3m2	2	35kw	5
TRMR-500	120m3/h	4m2	3	125kw	15
TRMR-1000	240m3/h	6m2	3	185kw	30



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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