

Mud Purification Device



>>> Xi'an • China

energy

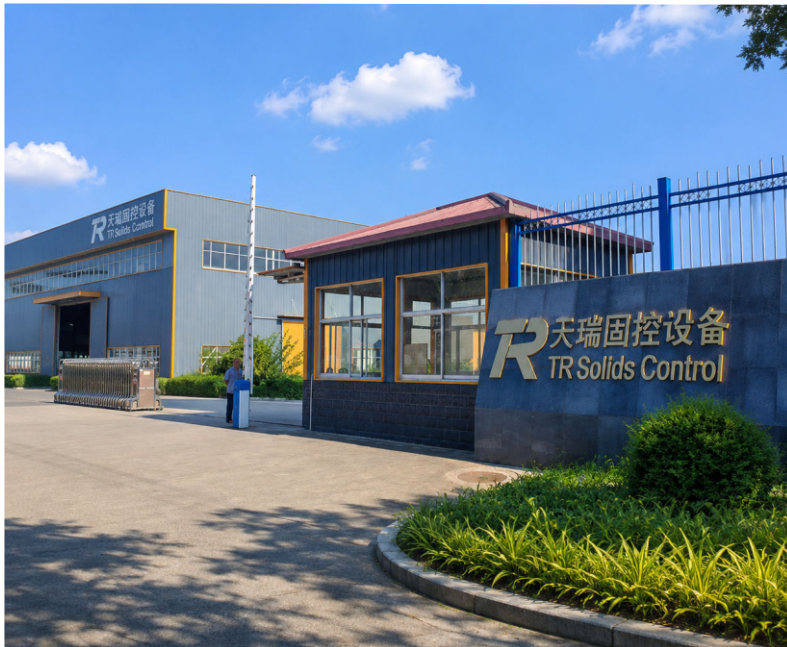


Q1

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

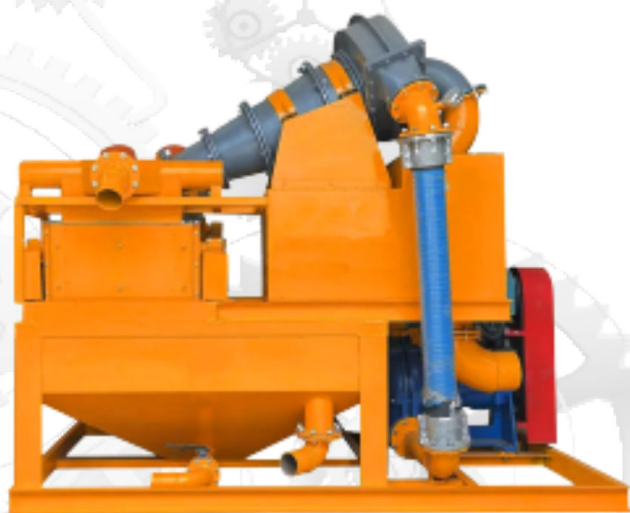


Mud Purification Device

Introduction



- The TR Mud Purification Device is a high-efficiency solids control system that combines shale shaking and hydrocyclone separation in a compact unit. It is widely used in oil & gas, shale gas, geothermal drilling, and HDD projects to remove sand, silt, and harmful solids from drilling fluids.
- Installed downstream of the primary shale shaker, the device provides continuous mud purification and stable feed conditions for downstream centrifuges and other solids control equipment. Hydrocyclones and shaker configurations can be customized to suit different drilling requirements.
- Featuring a modular design, compact structure, and high-efficiency separation technology, the TR Mud Purification Device delivers high processing capacity, reliable performance, easy maintenance, reduced mud loss, extended equipment life, and lower overall drilling costs, providing an efficient and reliable drilling fluid purification solution.



Mud Purification Device



Operating Principle

- The TR Mud Purification Device combines shale shaking and hydrocyclone separation to continuously remove solids from drilling fluids and maximize mud recovery. Drilling fluid is first pumped by the sand pump to the desander or desilter hydrocyclones, where centrifugal force separates sand and fine solids. The liquid exits through the overflow outlet and returns to the mud circulation system, while the underflow is discharged onto the fine shale shaker.
- The shale shaker dewateres the underflow, discharging dry solids while recovering valuable drilling fluid for reuse. Through the continuous process of Sand Pump, Hydrocyclones, Fine Shale Shaker, Mud Recovery, the system effectively reduces solids content, improves drilling fluid performance, enhances downstream solids control efficiency, and provides a reliable, efficient, and cost-effective mud purification solution for modern drilling operations.

TR Mud Purification Device Features & Benefits

1

Integrated Design

Combines hydrocyclones and a fine shale shaker for efficient multi-stage solids removal.

High-Efficiency Separation

Effectively removes sand, silt, and harmful solids to improve drilling fluid performance.

2

3

High Capacity & Reliable Operation

Delivers stable, continuous performance for demanding drilling applications.

Modular Configuration

Flexible hydrocyclone and shaker options to suit different drilling requirements.

4

Mud Purification Device

• TRZX Mud Purification Device Specifications

모델	TRZX-50/20	TRZX-100/30	TRZX-150/50	TRZX-200/80	TRZX-250/90	TRZX-500/200
Liquid Processing Capacity (m³/h)	≤50	≤100	≤150	≤200	≤250	≤500
Solids Processing Capacity (t/h)	≤20	≤30	≤50	≤80	≤90	≤50
Cut Point (μm)	20	30	45	60	60	60
Max. Moisture Content of Screen Discharge (%)	30%	30%	30%	30%	30%	30%
Sand Content After Treatment	<2%	<2%	<2%	<2%	<2%	<2%
Total Installed Power (kW)	20.7	20.7	20.7	48.6	58.6	117.2
Overall Dimensions (L × W × H) (m)	2.2*1.65*2.35	2.2*1.7*2.35	2.5*1.7*2.35	3.5*1.9*2.45	3.5*2*2.45	3.5*2*2.45
Weight (kg)	2100	2300	2500	3300	3600	7800





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.

Address: Baihualin Financial Innovation Center, Xi'an City, Shaanxi Province, China

Factory Address: No.2 Huochang Road, Yangling District, Xianyang City, Shaanxi Province, China

Website: www.xatrsy.com

Email: sales@trsolidscontrol.com

Phone: +86-029-86332919

Fax: +86-029-86332919

PO Box: 710016

