

Fracturing Flowback Fluid Treatment System



>>> Xi'an • China

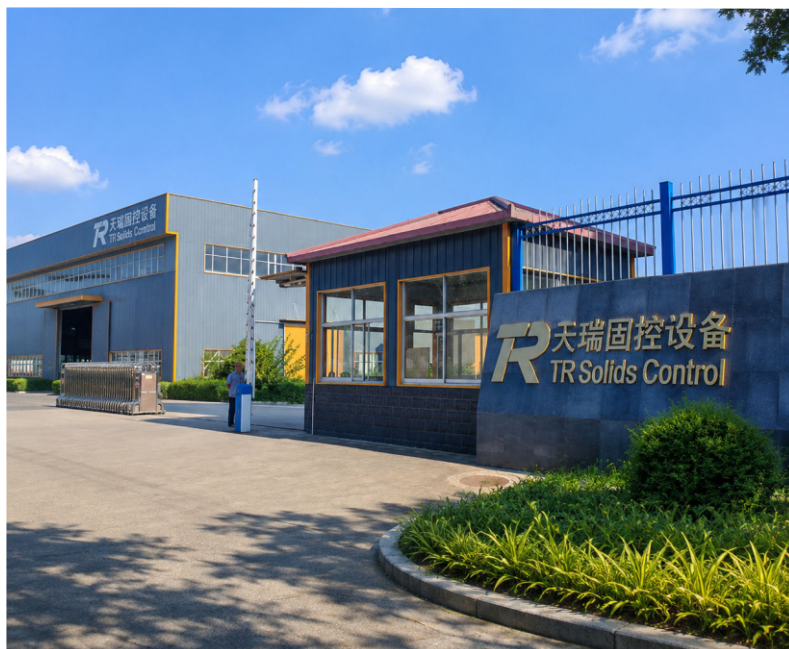
energy

API

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



Fracturing Flowback Fluid Treatment System

Introduction



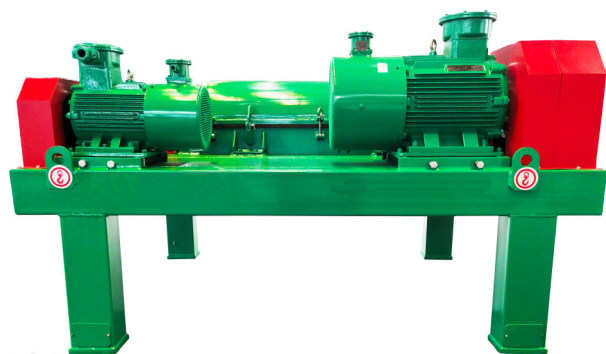
- The TR Flowback Water Treatment System is designed for the reduction, recycling, and environmentally compliant treatment of flowback water after hydraulic fracturing operations. Widely used in shale gas, CBM, tight gas, and oil & gas projects, it removes suspended solids, residual polymers, colloids, and impurities through physical separation, chemical conditioning, and advanced purification technologies.
- The system typically includes pretreatment units, solid-liquid separation equipment, chemical dosing systems, filtration units, storage tanks, pumps, and an intelligent control system. Featuring modular design, efficient separation, and automated operation, it delivers stable performance, high recovery efficiency, easy maintenance, and reduced wastewater discharge costs, providing a reliable and eco-friendly solution for modern oilfield wastewater treatment.



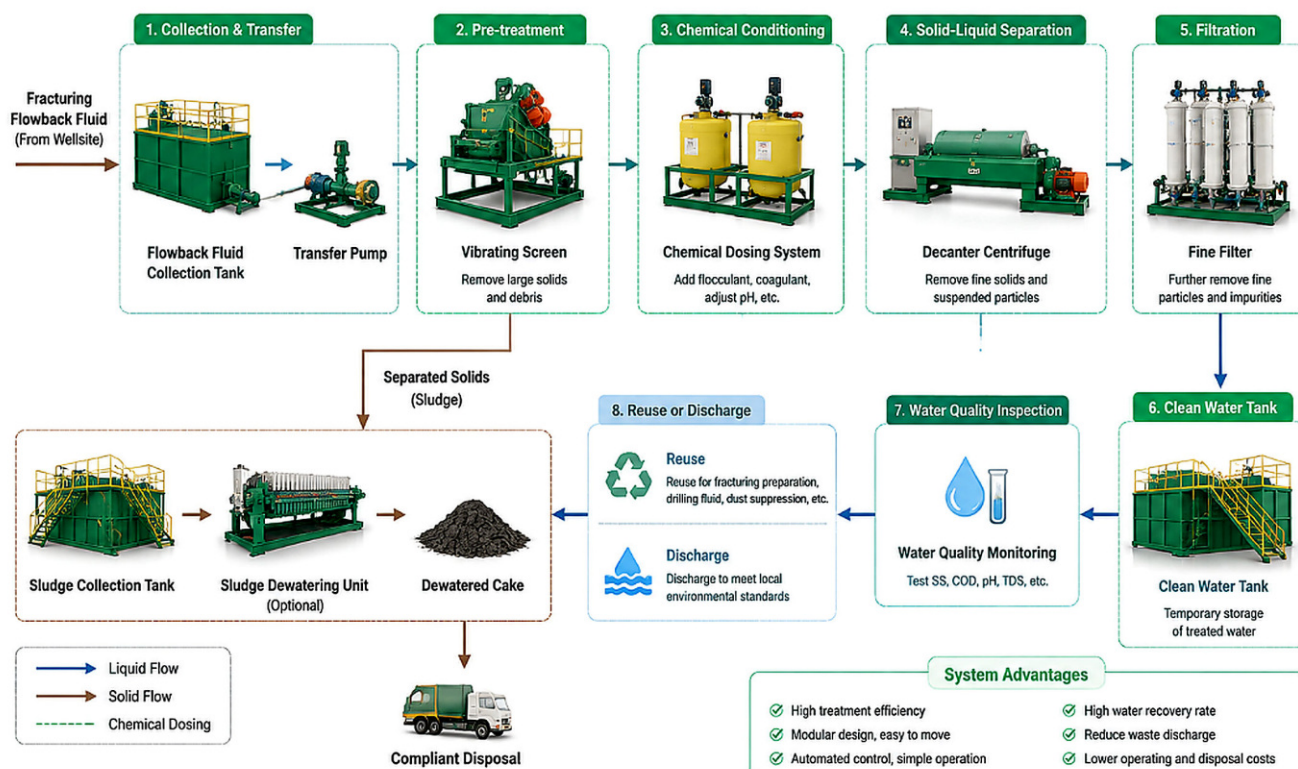
Fracturing Flowback Fluid Treatment System

Operating Principle

- The TR Flowback Water Treatment System integrates pretreatment, solid-liquid separation, chemical conditioning, and advanced purification technologies to continuously treat hydraulic fracturing flowback water, achieving solids removal, water recovery, and wastewater reduction.
- Flowback water enters the collection unit and is transferred to the pretreatment system, where screening or filtration removes large particles and suspended solids. It then enters the conditioning unit, where flocculants and coagulants are automatically added to aggregate fine particles, colloids, and residual polymers, enhancing separation efficiency.
- Through collection, pretreatment, chemical conditioning, solid-liquid separation, and purification reuse, the system reduces wastewater discharge, improves water recovery, lowers disposal costs, and provides an efficient, reliable, and environmentally friendly wastewater treatment solution.



— Process Flow Diagram —



Fracturing Flowback Fluid Treatment System

TRYL Fracturing Flowback Fluid Treatment System Features&Benefits

1

Efficient Treatment

Multi-stage separation removes solids and impurities for stable performance.

Water Recycling

Improves water recovery, reduces consumption, and lowers costs.

2

3

Modular Design

Flexible configuration for different capacities and applications.

Intelligent Control

Automated operation with monitoring and fault alerts.

4

5

Eco-Friendly & Cost Saving

Reduces waste disposal and supports green oilfield operations.

Reliable Performance

Stable operation, easy maintenance, and strong adaptability.

6

TRYL系列压裂返排液处理系统技术参数

Model	Capacity	Type	Oil Content	Suspended Solids
TRYL5	5m ³ /h	Skid-Mounted / Truck-Mounted	≤5mg/≤10mg	≤5mg/≤10mg
TRYL10	10m ³ /h	Skid-Mounted / Truck-Mounted		
TRYL20	20m ³ /h	Skid-Mounted / Truck-Mounted		
TRYL30	30m ³ /h	Stationary Installation		



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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