

# MUD CLEANER



Xi'an, China

energy  Q1  
Registered  
Manufacturer

## MUD CLEANER

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A mud cleaner is a combination of a desander, a desilter, and a shale shaker.

A drilling mud cleaner is also called a desander and desilter assembly, as it combines a desander, a desilter, and a shale shaker.



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## DRILLING MUD CLEANER

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- In addition to its rational design, this mud cleaner also incorporates the functionality of a standalone shale shaker.

It features a compact structure, occupies a small footprint, and delivers powerful performance.

- Mud Cleaner is the second class and the third class solids control equipment which is the newest type to treat the drilling fluid. At the same time drilling Mud cleaner has the higher cleaning function compared with separated desander and desilter.

# ADVANTAGES OF TR MUD CLEANER

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- **Environmentally Efficient**

The TR mud cleaner enables efficient removal of sand and silt particles larger than 20 microns, with some as small as 15 microns. The removal and drying of generated solids help meet environmental regulations by minimizing waste production and reducing disposal costs.

- **High Performance**

The system offers a processing capacity of 1,000 GPM (gallons per minute) with the 2-12" desander and 900 GPM with the desilter, concentrating solids onto a classification shaker.

- **Versatile**

The mud cleaner can be operated with the 2-12" desander, desilter or both to process weighted or unweighted fluid systems.

- **Extends Equipment Life**

By effectively removing abrasive particles, the mud cleaner helps minimize maintenance, repairs, and replacement of downstream equipment.

- **Reduces Operating Cost**

The mud cleaner reduces sand and silt-size particles and saves liquid, thus reducing mud cost, chances of stuck pipe and lost circulation and improving rate of penetration.

- **Reduces Disposal Cost**

The mud cleaner significantly reduces waste volume, leading to lower disposal costs.



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## DRILLING MUD CLEANER TECHNICAL PARAMETERS

| Model                  | TRQJ200*1S-100*4N | TRQJ200*2S-100*8N | TRQJ250*2S-100*12N | TRQJ250*3S-100*20N |
|------------------------|-------------------|-------------------|--------------------|--------------------|
| Treatment Capacity     | 60m <sup>3</sup>  | 120m <sup>3</sup> | 240m <sup>3</sup>  | 320m <sup>3</sup>  |
| Desander Cyclone Specs | 8in               |                   | 10in               |                    |
| Desander Cyclone Qty   | 1nos              | 2nos              | 2nos               | 3nos               |
| Desilter Cyclone Specs | 4in               |                   |                    |                    |
| Desilter Cyclone Qty   | 5nos              | 8nos              | 12nos              | 20nos              |
| Working Pressure       | 0.25~0.4mpa       |                   |                    |                    |
| Inlet Size             | DN125mm           | DN150mm           | DN150mm            | DN200mm            |
| Outlet Size            | DN150mm           | DN200mm           | DN200mm            | DN250mm            |
| Separation Point       | 15μm~44μm         |                   |                    |                    |
| Bottom Shaker          | TRZS60/N/A        | TRZS752/N/A       | TRZS752/N/A        | TRZS703/N/A        |
| Dimension              | 1510×1160×2000mm  | 1835×1230×1810mm  | 1835×1230×1810mm   | 2419×2150×2147mm   |
| Weight                 | 600kg             | 980kg             | 1250kg             | 2350 kg            |



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## MUD CLEANER FOR DRILLING FLUIDS SOLIDS CONTROL



Drilling mud cleaners(also called desander and desilter assemblies) are units that combine a desander, a desilter, and a vibrating screen(shale shaker component). Specifically, they utilize a two-stage separation process involving hydrocyclones mounted over a shale shaker, operating as a single unit.

Designed to handle the entire circulating volume, drilling mud cleaners are effective in both weighted and unweighted drilling-fluid systems for removing and drying drilled solids while retaining the valuable liquid phase.

The hydrocyclones (desanders and desilters) perform primary separation, with their underflow directed onto the shaker's vibrating screen. When used correctly, the drilling mud cleaner reduces both drilling-fluid and disposal costs.

In oilfield solids control, drilling mud cleaners are highly efficient components of oil/gas well drilling mud purification systems.

Mud cleaners are one of the important pieces of equipment for solid-liquid separation systems.



**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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