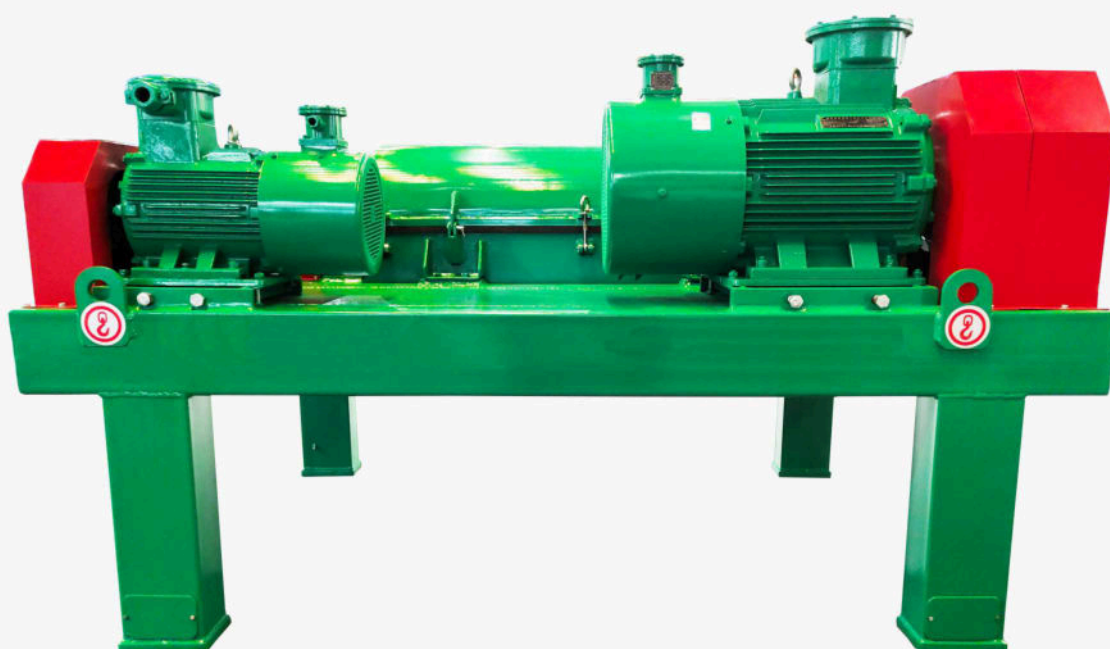


Centrifuge



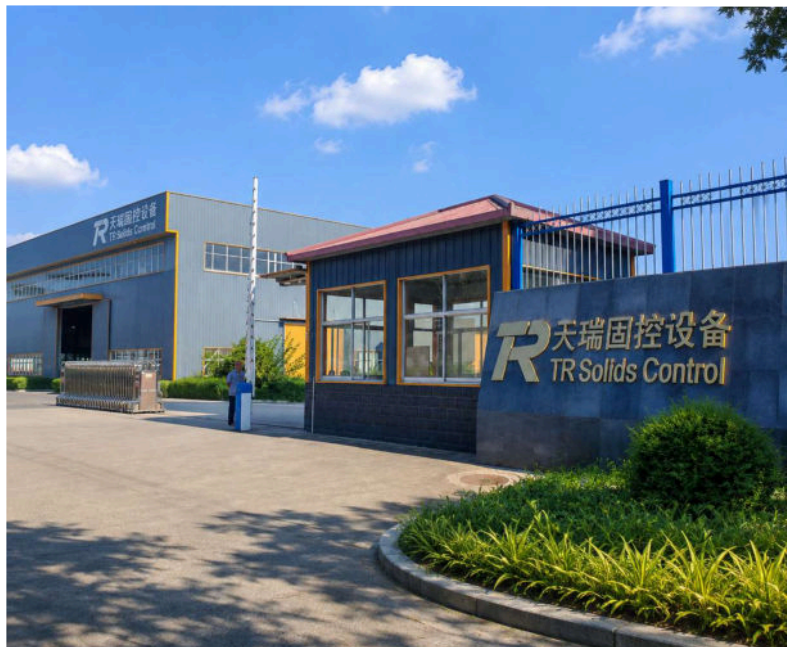
 **Xi' an•China**

energy  **Q1**
Registered
Manufacturer

Xi' an Tianrui Petroleum Machinery Equipment Co., Ltd.

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



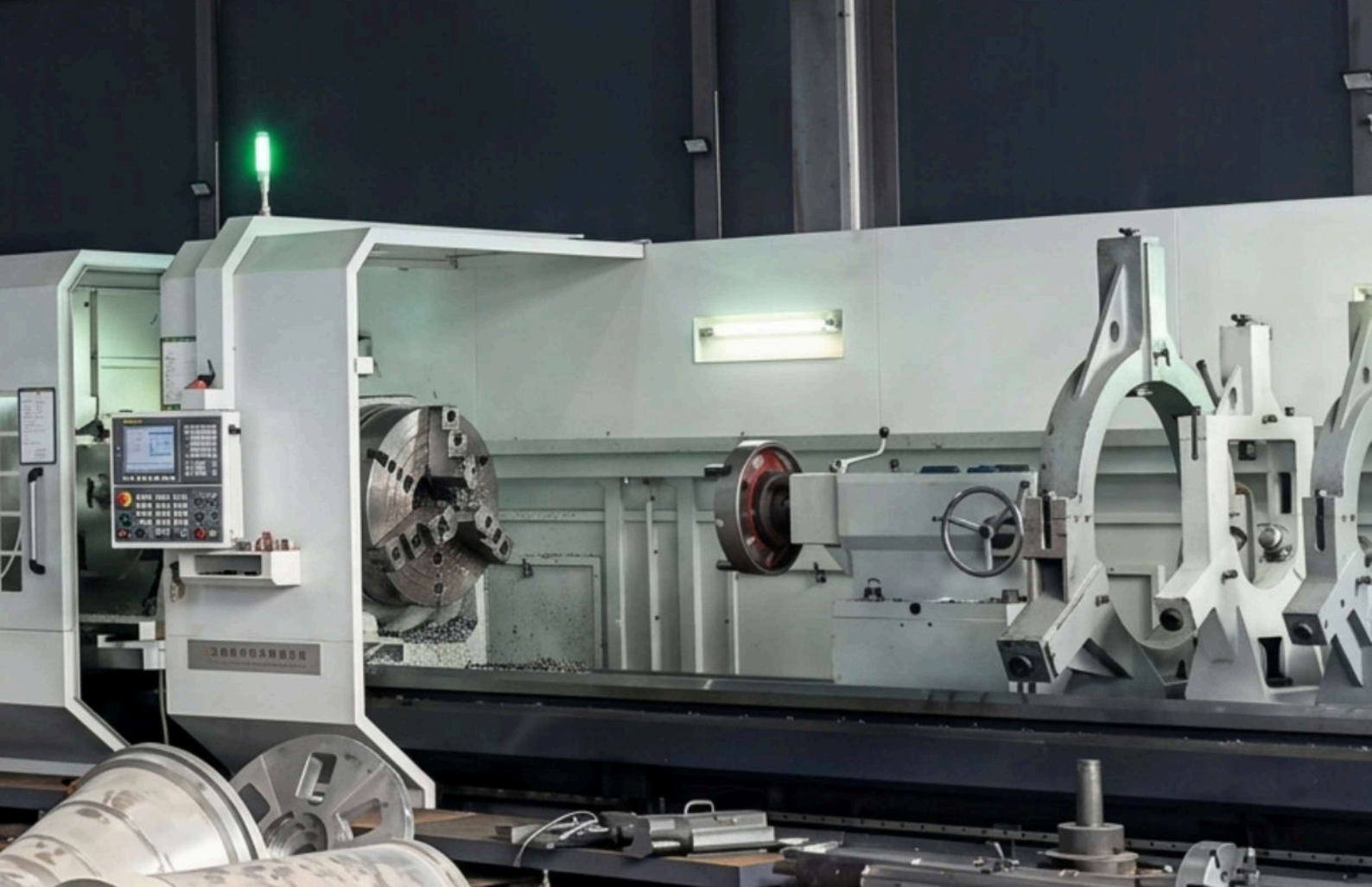
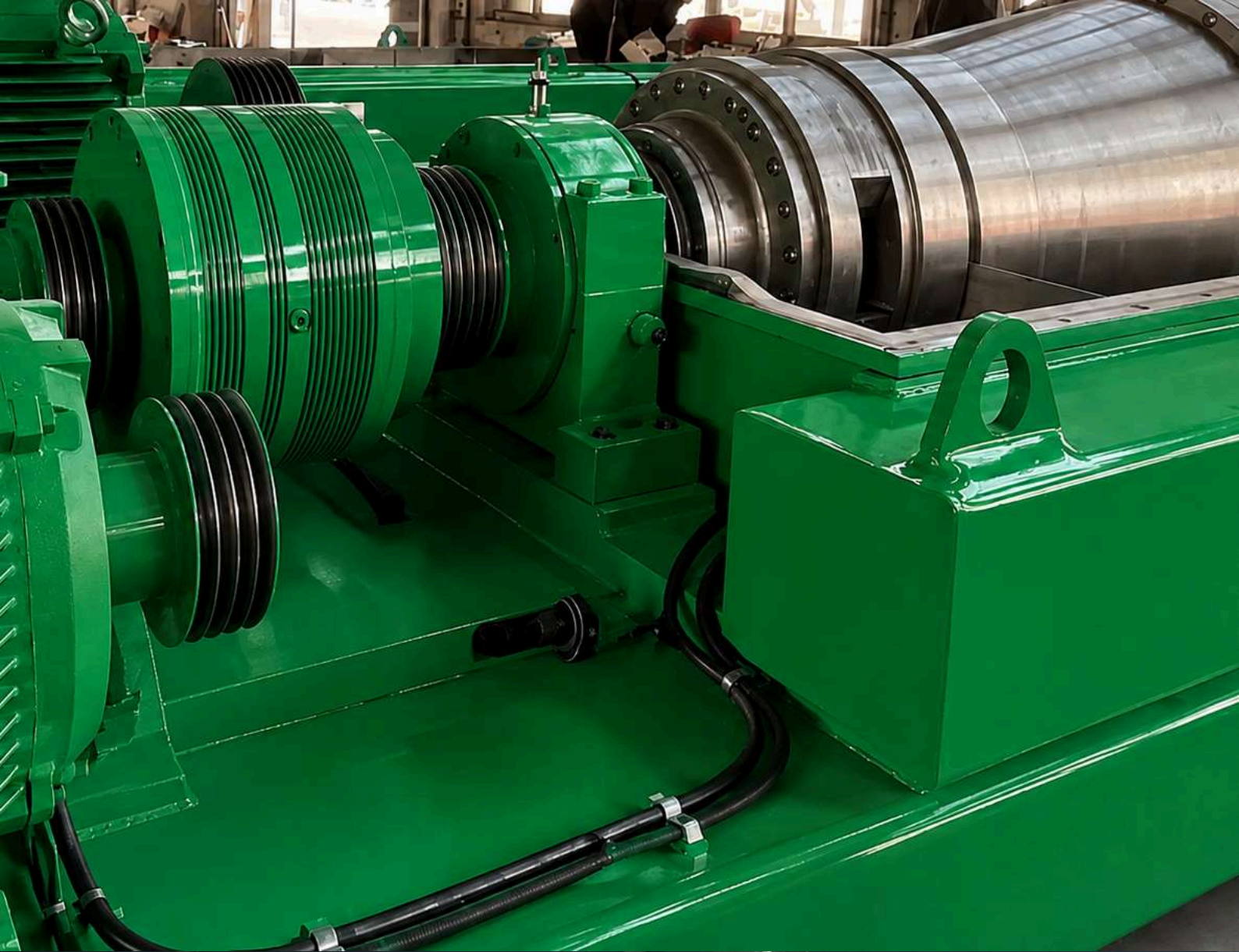
Production Capacity

- 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 qualifications





Centrifuge

Centrifuge Introduction



- || The drilling mud centrifuge separates solid particles from drilling fluid using centrifugal force. Since particles differ in density and flow velocity, this equipment can also sort particles by size and density. It is widely applied in oil & gas drilling, chemical, food, pharmaceutical, mineral beneficiation, water treatment and other fields.
- || The waste separation centrifuge is dedicated to Drilling Waste Management (DWM). Generated centrifugal force gathers solid particles on the bowl wall. The conveyor and bowl rotate in the same direction at different speeds, pushing solid particles to the conical end of the bowl for discharge.



Centrifuge



Engineered for High Volume Solids Removal

- Large feed chambers to handle high feed rates
- Robust flight design to convey large quantities of high density solids
- Steep and short beach to enable high volume solids discharge
- Designed to handle heavy weight drilling fluids and support high circulating rates in oil & gas drilling
- Designed to process feed slurries with highly abrasive solids in mining and aggregate operations
- Designed to manage high feed rates and solids loading for civil construction applications

Built for Durability and Reliability

- Fully stainless assemblies, both bowl and conveyor, to prevent corrosion and increase asset longevity in harsh
- Conveyor flights have tungsten carbide tiles to protect from wear and damage
- Steep and short beach to enable high volume solids discharge
- Conveyor features hardened/replaceable feed nozzles and feed accelerator to extend conveyor life
- Bowls have hardened/replaceable solids discharge abrasive solids in mining and aggregate operations

Centrifuge

Mud Centrifuge Advantages

1

Large-capacity vessel, high throughput and high acceleration.

2

The main body is made of 2205 stainless steel.

3

Stainless steel impeller, surface protected by welded carbide or ceramics.

4

Easy-to-replace carbide rings & ceramic parts for solid discharge outlet.

5

Bearings: FAG (Germany) or SKF (Sweden)

6

Electrical components: Siemens, Schneider

7

Three overload protections: Transmission safety unit; Fluid coupling protection; COP

8

Screw pump or centrifugal pump applicable for centrifuge feeding to suit various working conditions.

Application of New Materials

|| 2205 duplex stainless steel is adopted for main components of TR Solids Control decanter centrifuges, featuring better corrosion resistance than 316L. Stainless steel is also used for guards of main body and gearbox.



centrifuge

Centrifuge

- **Our Decanter Centrifuge**

Delivers exceptional separation performance. Through high-velocity rotation, it generates potent centrifugal forces for efficient solid-liquid separation.

- **This immense centrifugal**

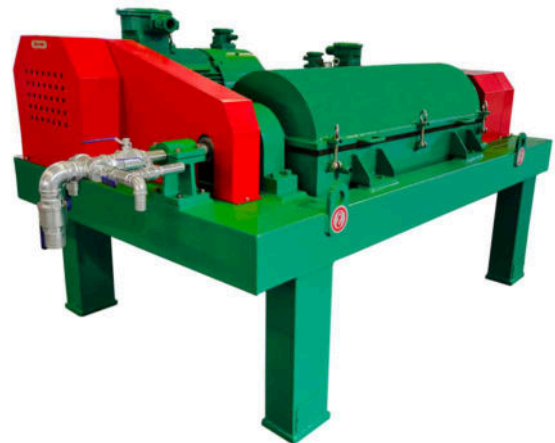
Force enables micron-level precision, consistently removing particles as fine as 5-10 microns from viscous fluids

- **The high-performance**

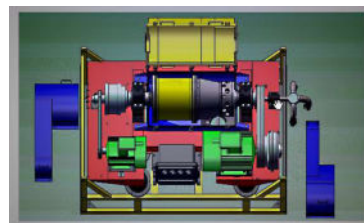
Design not only enables rapid separation but also ensures remarkable accuracy in handling industrial fluids, delivering seamless and highly efficient production processes.

- **Whether your operations**

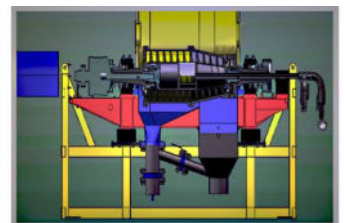
Involve processing high-volume wastewater in manufacturing or separating precious solids from liquid suspensions in mining applications, our centrifuge consistently achieves separation results surpassing industry standards.



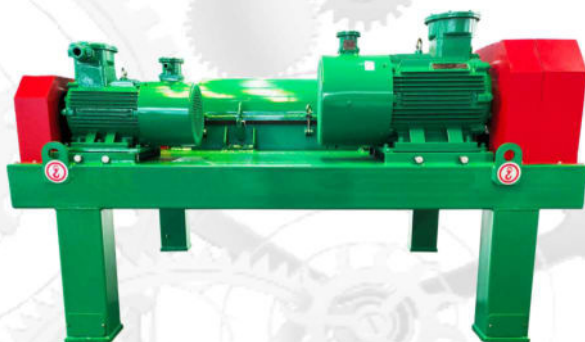
Decanter Centrifuge



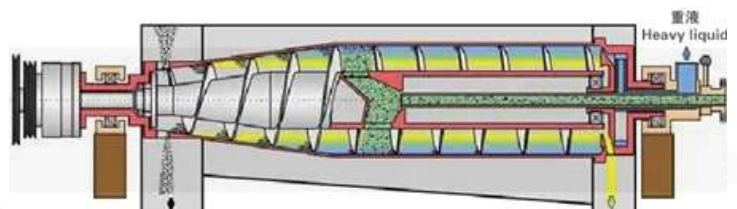
Structural diagram



Structural diagram



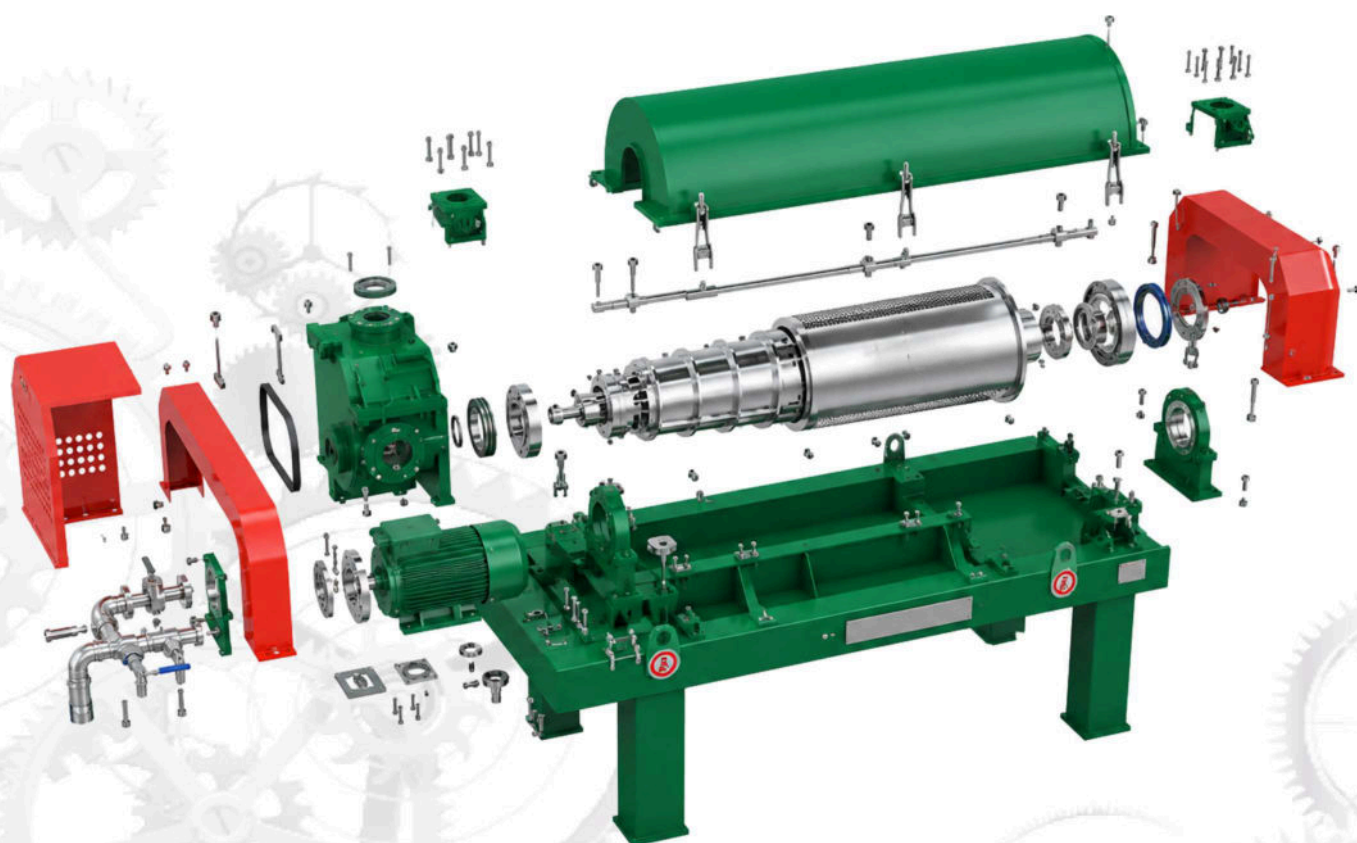
Decanter Centrifuge



Centrifuge

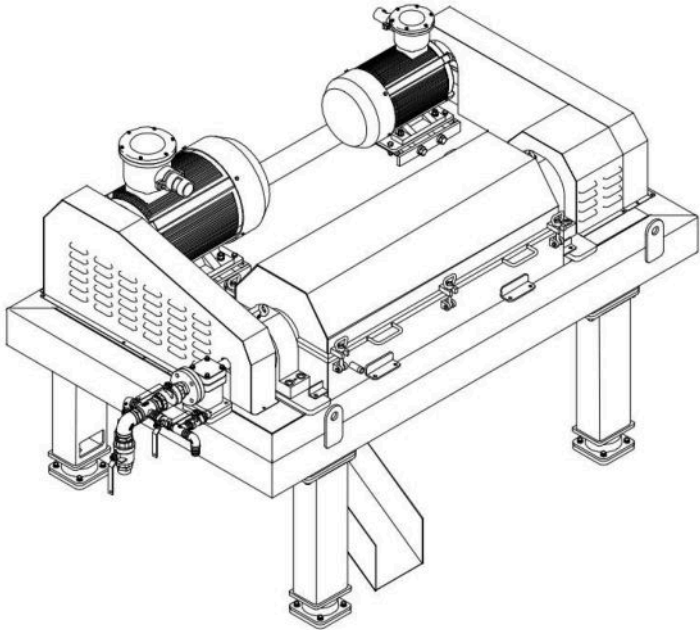
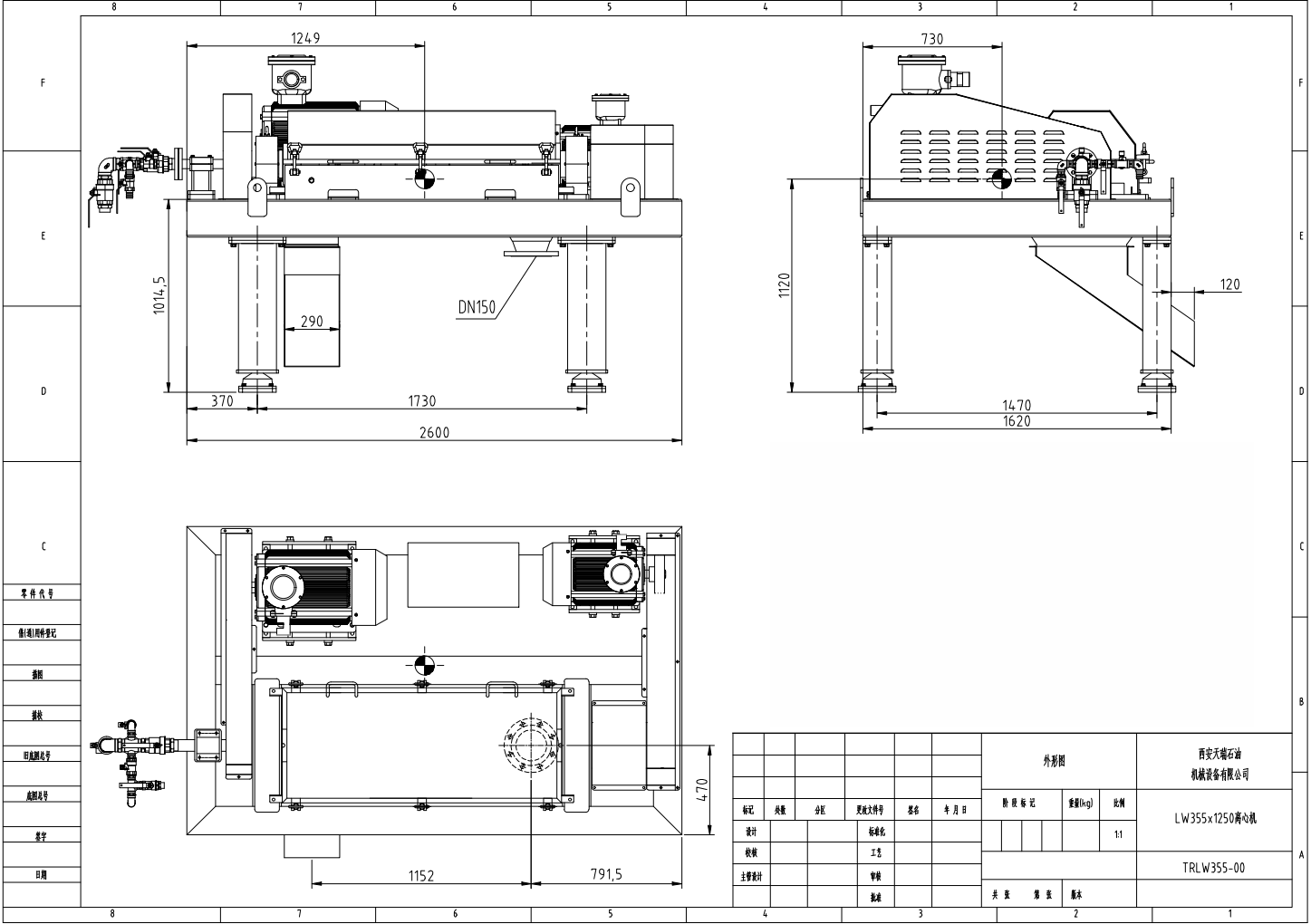
Mud Centrifuge Specifications

Model	TRGLW355N-1	TRGLW450N-2	TRGLW450N-3	TRGLW550N-1
Bowl Diameter	355mm (14inch)	450mm (17.7inch)	450mm (17.7inch)	550mm (22inch)
Bowl Length	1250mm (49.2inch)	1250mm (49.2inch)	1600mm (64inch)	1800mm (70.9inch)
Max. Throughput	40m3/h	60m3/h	70m3/h	90m3/h
Max. Speed	3800r/min	3200r/min	3200r/min	3000r/min
Rotating Speed	3200r/min	3000r/min	2800r/min	2600r/min
Separation Factor	3018	2578	2578	2711
Separation Point	2~5μm	2~5μm	2~5μm	2~5μm
Main Motor	30kW-4p	30kW-4p	45kW-4p	55kW-4p
Auxiliary Motor	7.5kW-4p	7.5kW-4p	15kW-4p	22kW-4p
Weight	2950kg	3200kg	4500kg	5800kg
Overall Dimensions	2850*1860*1250	2600*1860*1250	2950*1860*1250	3250*1960*1350



Centrifuge

Mud Centrifuge Dimension Drawing





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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