

Screw Conveyor



 **Xi' an•China**

energy

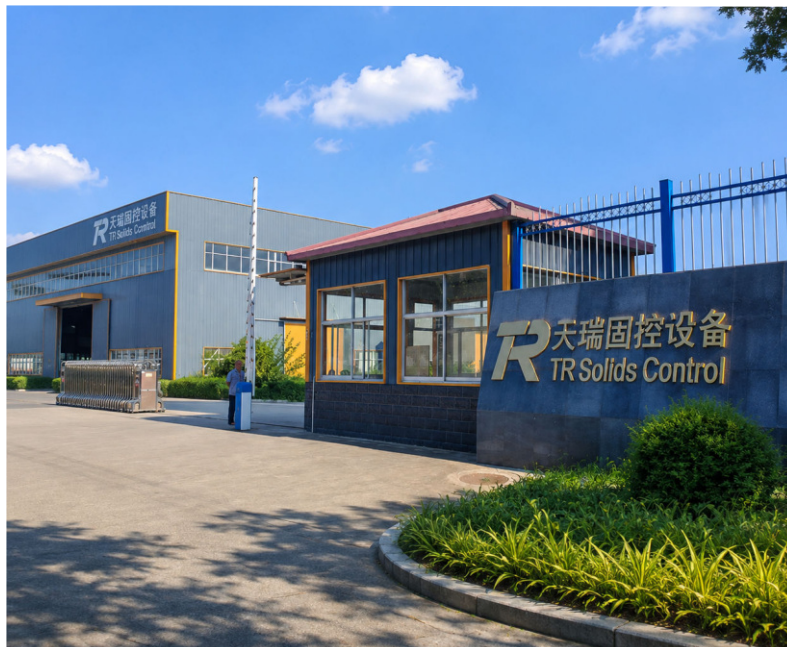


Q1

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



Screw Conveyor

Introduction



- TR Screw Conveyor is an efficient conveying system designed for transporting drilling cuttings, drill solids, and various bulk solid materials. It is widely used in oil and gas, geothermal drilling, and solids control waste management systems. The unit is typically installed beneath shale shakers, desanders, desilters, and centrifuges to continuously transfer separated solids to collection or downstream treatment systems, enabling automated waste handling.
- Featuring a modular and robust design, the TR Screw Conveyor offers high conveying capacity, smooth operation, reliable sealing, and easy maintenance. Wear-resistant components ensure reliable performance under high-wear and heavy-duty operating conditions. The unit can be seamlessly integrated with various solids control equipment, improving waste transfer efficiency, reducing manual cleaning, and enhancing system automation.



Screw Conveyor



• Operating Principle

- The TR Screw Conveyor operates on the principle of continuous screw conveying. A drive unit rotates the screw shaft at a constant speed through a gearbox, generating axial thrust through the rotating screw flights. Solid materials entering the conveying trough are continuously pushed forward and discharged through the outlet.
- In solids control systems, the conveyor is typically installed beneath shale shakers, desanders, desilters, and centrifuges to collect and transfer separated cuttings and solid waste. It can be installed horizontally, inclined, or in combination, and multiple units can be connected in series.
- With a high-torque drive, heavy-duty screw flights, and wear-resistant trough, the TR Screw Conveyor provides high conveying capacity, stable operation, reliable sealing, and efficient continuous solids handling.



Screw Conveyor

TRLS Series Screw Conveyor Features & Benefits

1

High Conveying Capacity

Efficiently handles large volumes of drilling cuttings and solid waste.

2

Heavy-Duty Construction

Wear-resistant components ensure reliable performance under demanding conditions.

3

Stable & Continuous Operation

High-torque drive provides smooth and consistent material conveying.

4

Flexible System Integration

Supports horizontal, inclined, and series configurations for different solids control systems.

Screw Conveyor Technical Specifications

Model	Nominal Screw Diameter	Length (m)	Screw Shaft Speed	Conveying Capacity	Motor Power (kW)
LS 250	250mm	6/9/12/15	88r/min	10m³/h	3/4/5.5/7.5
			65r/min	7.5m³/h	2.2/3/4/5.5
			52r/min	6m³/h	2.2/3/4/5.5
LS 315	315mm	6/9/12/15	65r/min	15m³/h	5.5/7.5/11
			52r/min	12m³/h	3/5.5/7.5
			43r/min	10m³/h	3/5.5/7.5
LS 400	400mm	7.2/10.8/14.4	65r/min	27.5m³/h	7.5/11/15
			52r/min	22m³/h	7.5/11/15
			43r/min	18m³/h	5.5/7.5/11



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

