

VERTICAL CUTTING DRYER



»»» Xi'an, China

energy  Q1
Registered
Manufacturer

THE MACHINE WORKS BY USING

- Vertical Cutting Dryer is a continuous working horizontal scraper discharging centrifuge. Cutting Dryer used in drilling waste management system. TR Solids Control is an vertical cutting dryer supplier.
- Vertical Cutting Dryer is a single level continuous working horizontal scraper discharging centrifuge.
The TR Vertical Cutting Dryer uses centrifugal force to dry drilled solids in oil or synthetic base fluids.

The machine works by using

- TR series It can effectively recover the oil components in the drilling chips, and can effectively meet the requirements of curing transportation and meet the requirements of environmental protection standards. stainless steel screen bowl traps “wet” solids and accelerates them up 900RPM with G force to 420G.
- Vertical Cutting Dryer is very good. Liquid is forced through the screen bowl openings, while “dry” solids are extracted by the angled flights attached to the cone, which rotate slightly slower than the bowl. Tungsten carbide protects the flights from abrasive solids and ensures long operational life. This aids in maintaining a constant gap between the scroll and screen bowl, which is crucial for proper operation.



Vertical Cutting Dryer



Vertical Cutting Dryer



Vertical Cutting Dryer

ADVANTAGES OF THE DRYER

Vertical Cutting Dryer specially designed for drilling cuttings from Oil Based Mud (OBM) and Synthetic-based Mud.

- **1.G force up to 420 G**

TR normal vertical cuttings dryer speed is 900 RPM with G force up to 420 G and VFD drive is optional for adjust the speed.

- **2.Longer life**

The Flights on the rotor is hard facing to HRC 65, longer life than our competitors. The flights and the rotor assembly is individually balanced for future replacement.

- **3.Longer life and easy replacement**

Specially designed highly precise stainless steel screen to ensure your better separation, longer life and easy replacement. The screen itself is individually balanced for future replacement. And the screen is separated from the frame which allows you to change the screen only, not need to change the frame inside.

- **4.Individual oil lubrication system**

Individual oil lubrication system with automatic alarm for pressure limit. The main motor and oil pump motor is interlocked with each other for avoiding the start of the main motor prior to the start of the oil pump motor.

- **5. VFD cuttings dryer control panel**

VFD cuttings dryer control panel is made by stainless steel with Pressurized explosion proof. The PLC smart control allows you to adjust the speed and protect the machine more friendly. The air circulation through the cooling tubes allow you to use the VFD cuttings dryer in high temperature environment. The VFD is ABB or SIEMENS Brand, other main electric components are Schneider or SIENMENS Brand.



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Product features

1. The rotation speed is as high as 900rpm, which can form a separation factor of 420G, effectively separating the liquid in the drill cuttings.
2. The discharge scraper is cast from high chromium cast iron for long service life.
3. The assembly of high-pressure air knife can effectively prevent the blockage of the screen blue.
4. Each replaceable optional part has been tested for dynamic balance to meet the balance of the whole machine of the replacement parts.
5. Independent oil circuit cooling system, equipped with scientific fuel tank cooling system, effectively meets the requirements of use in high temperature environment.



VERTICAL

CUTTING Dryer Specifications

Model	TRCD930	TRCD930-VFD	TRCD730	TRCD730-VFD
Treatment Capacity(Ton/h)	30 ~ 50	30 ~ 50	15 ~ 20	15 ~ 20
Drying Efficiency	≤ 5%	≤ 5%	≤ 5%	≤ 5%
G-force	421	421	357	357
Screen Basket Max Diameter(mm)	930	930	790	790
Screen Basket Gap(mm)	0.25 ~ 0.5	0.25 ~ 0.5	0.25 ~ 0.5	0.25 ~ 0.5
Rotary Speed(rpm)	900	0~900	900	0~900
Oil tank capacity(L)	60	60	60	60
Main Motor Power(kW)	55	55	22	22
DOil Pump Power(kW)	0.55	0.55	0.55	0.55
DWasher Pump Power(kW)	4	4	4	4
Explosive-proof standard	EXdIIBt4/IECEX/A-TEX	EXdIIBt4/IECEX/A-TEX	EXdIIBt4/IECEX/A-TEX	EXdIIBt4/IECEX/A-TEX
Explosive-proof cabinet	STD	EXD	STD	EXD
Weight(kg)	4750	5000	3000	3200
Dimensions(mm)	2500x1650x1800	2500x1650x1800	1950x1370x1550	1950x1370x1550

VERTICAL CUTTING

Dryer specially designed for drilling cuttings from Oil Based Mud (OBM) and Synthetic-based Mud.

Vertical Cutting Dryer and Decanting Centrifuges used in drilling waste management system. Drilling waste management is a common name for drilling cuttings treatment, also known as drilling fluid non-grounding. Drilling Cuttings Waste Management System is used for taking drilling fluids from the drilling cuttings and clean the fluids for reuse.

- It is to maximize the recycling of drilling fluids, and minimize the drilling waste in order to save cost for operators.
- The TR Vertical Cutting Dryer uses centrifugal force to dry drilled solids in oil or synthetic base fluids



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
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