

GNCD930 Vertical Cutting Dryer

Model	GNCD930
Feed Capacity	30~50Tons/h
Max Bowl Diameter	930mm
Screen Opening	250/350/500 Microns
Rotary Speed (Max)	900rpm
G Force (Max)	420
Main Motor	55kw
Oil Pump Motor	0.75kw
Dimension	2780x2080x2450mm
Weight	4500Kg
Voltage	380V/50HZ or 460V/60HZ or Customized
OOC(Oil on Cuttings)	3-5%
Motor & Electrical	Explosion Proof(Exd II B t4)

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GNCD930 Vertical Dryer Features & Benefits

Tech Support	Southwest Petroleum University
Production Standard	API Q1 & ISO/TS29001 & ISO 9001:2008
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
Flites Material	High Chrome Alloy Steel for longer use life
Solids Discharge Chanel	Coated with ceramics or tungsten carbide
Basket Screen	Stainless Steel
Flushing System	Flushing access available, and Flushing system available for option.
Electric Motor	Explosion Proof (IEC Ex or ATEX Certified for Option)
Electrical Components	SIEMENS/Schneider components for the Electrical Control Panel
Balance Testing	Balance testing for all major rotary components to minimize vibration & noisy
Coating & Painting	Japan Kansai Brand (Epoxy zinc rich prime, thickness 75 μ , epoxy medium twice, thickness 250 μ , polyurethane finish paint twice, thickness 70 μ)
Link Bolts	SS304 Material Or Dacromet coatings material
High Quality Steel	International Standard Steel From Top Company(HBIS)
Safty Protection	Over Currency protection for automatically stop

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GNCD930 Vertical Dryer Photoes



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GH Solids Control

GNCD930 Vertical Dryer Features

Up to 2012,GN Solids Control is the only one API & ISO certified manufacturer for the vertical cutting dryer in China. GN manufacture complete equipments for Solids Control and most equipments for waste management like different kinds of decanter centrifuges.

The GN Vertical Cutting Dryer uses centrifugal force to dry drilled solids in oil or synthetic base fluids. A stainless steel screen bowl traps "wet" solids and accelerates them up 900RPM with G force up to 420. 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. GN cutting dryer has been done strict balance testing for all major rotary components to minimize vibration & noisy



GN Vertical Cutting Dryer fixed with 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.

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GNCD930 Vertical Dryer Working Principal

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Solids Control <u>GNCD930 Vertical</u> Dryer Application



BASIC COMPONENTS:

GN Manufacture Cuttings Dryer as part of a total system.

A properly engineered and operated system consists of four main elements:

A) Delivery system to move cuttings to the Cuttings Dryer

B) GN Vertical Dryer

C) "Dry" solids discharge / collection system

D) GN Decanter Centrifuge to polish the GN Cuttings Dryer effluent

Each piece is crucial to proper operation and must be engineered accordingly.

Reduce Waste, Recycle Drilling Fluids

A) Feed System

Size, shape, volume and moisture content of drilled solids can vary greatly. Installing a proper delivery system to deal with the range and volume of material is critical. Normally delivery systems including:

• A variety of screw conveyors and chutes • Vacuum transfer systems • Positive pressure transfer systems and

B) GN Vertical Cuttings Dryer

The GN Vertical Cuttings Dryer processes drilled cuttings to between 3% to 5% wet weight oil. The Dryer has comfortably processed cuttings generated when drilling reached 150 feet per hour in 20-inch hole (46 meters per hour in 508-mm hole).

C) "Dry" Solids Discharge or Collection

A screw conveyor is usually installed beneath the Vortex Dryer and collects the "dry" solids, which are sent overboard if regulations allow, or are collected for final disposal off-site.

D) Effluent Polishing

The Cuttings Dryer effluent is typically collected and pumped to a high-volume decanting centrifuge for further cleaning. The decanting centrifuge separates the slurry into fine solids and "cleaned" fluid, which is often sent back to the active drilling fluid system. A portion may be used as dilution for the Dryer. The solids from the centrifuge can be collected in the same vessel or conveyor as solids from the Dryer.

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GR Solids Control

GN Waste Management



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GN Centrifuge Workshop



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GAP Solids Control GN Beijing Factory



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G Solids Control





(Mud Solids Control Specialist)

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