

**GLOBAL OILFIELD & SOLID-LIQUID
SEPARATION EQUIPMENT MANUFACTURER
AND INTEGRATED SOLUTIONS PROVIDER**



40+

REGIONS & COUNTRIES



800+

INTEGRATED SYSTEMS



5,000+

EQUIPMENT UNITS

Who We Are

Henyo Petro Group

Global Oilfield & Solid-Liquid Separation Equipment Manufacturer and Integrated Solutions Provider



Group Overview

HENYO PETRO GROUP is headquartered in Hong Kong, which serves as the global strategic and operational center, overseeing international market development, brand strategy, global resource integration, and cross-border business coordination. Focused on oilfield and separation equipment, we specialize in oil & gas drilling, solids control and separation, oilfield environmental management, and industrial fluid processing. Combining engineering expertise, equipment manufacturing, and customized system integration, we deliver reliable, application-specific solutions to customers worldwide.



Operating Framework

Leveraging Hong Kong's position as a leading international finance, trade, and shipping hub, we integrate China's advanced manufacturing capabilities with global supply chain resources through an international operating framework: "Hong Kong Headquarters · China Manufacturing Base · Global Service."



Manufacturing Base

Hebei Beizuan Petroleum Drilling and Production Equipment Co., Ltd. serves as HENYO PETRO's core R&D and manufacturing hub in China. Located in Sanhe City, Hebei Province, the facility spans more than 35,000 m² and is approximately 50 km from Beijing Capital International Airport and 150 km from Tianjin Port. Featuring standardized workshops, intelligent machining centers, automated production lines, and dedicated testing facilities, the manufacturing hub combines advanced production capabilities with continuous process optimization and technological innovation to ensure efficient manufacturing, consistent quality, and reliable delivery for global projects.



40+

Regions & Countries



800+

Integrated Systems



5,000+

Equipment Units



Mission

To engineer reliable equipment and integrated solutions that improve efficiency, recover valuable resources, and advance sustainable development.



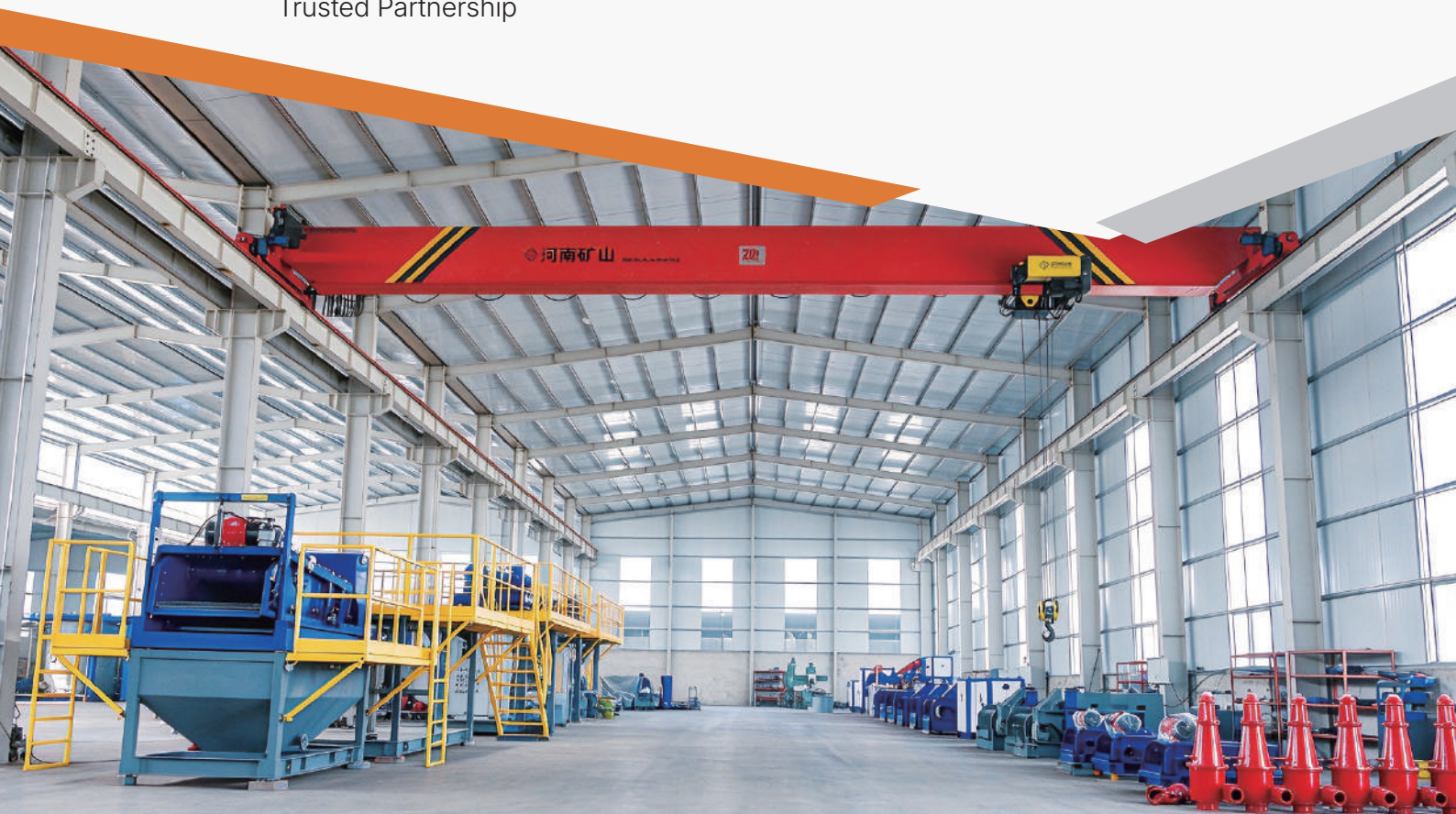
Vision

To be a globally trusted provider of oilfield equipment and separation solutions, recognized for engineering excellence, reliable performance, and sustainable value.



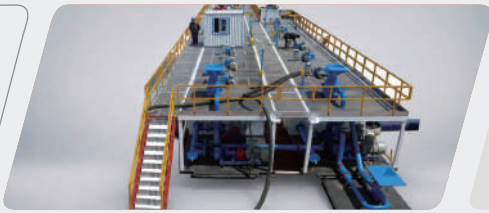
Values

Engineering Excellence Operational Efficiency Continuous innovation.
Trusted Partnership



What We Do

Core Products & Services



Solids Control and Separation Equipment

High-performance shale shakers, mud cleaners, decanter centrifuges, and auxiliary solids control equipment engineered for efficient drilling fluid management and operational reliability.



Mud Recovery Systems

Advanced mud recovery and recycling systems designed to minimize waste, reduce operating costs, and enhance drilling efficiency.



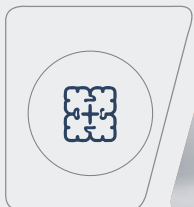
Drilling Waste Management Systems

Reliable solutions for drilling waste treatment, cuttings management, and environmental compliance.



Solid-Liquid Separation Systems

Precision separation technologies for industrial processing, fluid recovery, and solids dewatering applications.



Integrated Process Solutions

Integrated process solutions covering engineering design, equipment manufacturing, system integration, commissioning, and start-up support.



Technical Services & Field Support

Responsive worldwide support including equipment commissioning, operational training, spare parts supply, and on-site field services.

APPLICATIONS



Oil & Gas Drilling



HDD/Trenchless
Engineering



Mining
Operations



Environmental
Treatment



Industrial
Separation

GLOBAL FOOTPRINT

HENYO PETRO provides solids control, separation, and integrated equipment solutions to global oil & gas, HDD / trenchless, mining, and environmental operations across more than 40 countries and regions. Supported by robust manufacturing capabilities and responsive global technical services, we deliver reliable, efficient, and field-proven solutions to customers worldwide.



How We Do

From Engineering To Global Delivery

Pre-sales

01

Requirement Analysis

Understanding project conditions and customer requirements.



02

Solution Design

Providing customized solutions.



Project Execution

03

Standardized Manufacturing

Standardized production with strict quality control and testing procedures.



04

System Integration

Integrated equipment assembly, commissioning and operational optimization.



After-sales

05

Global Delivery

Efficient logistics coordination and worldwide project execution support.



06

After-Sales Service

Responsive technical support, spare parts supply and field maintenance services.



Why Choose Us

Precision, Efficiency,
And Innovative Solutions With Global Impact.



Precision Manufacturing
Capability



Operational
Efficiency



Innovation &
Sustainability



Customized Engineering
Solutions



Trusted
Partnership



One-Stop
Service



Rapid Global
Response



Proven in 40+
Countries

Corporate Honors & Certifications



CATALOGUE



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FEATURED EQUIPMENT

Our Flagship Solids Control Equipment for Global Drilling Operations

1

HIGH-G DRYING SHAKE

Maximum Fluid Recovery & Drier Cuttings for Waste Management



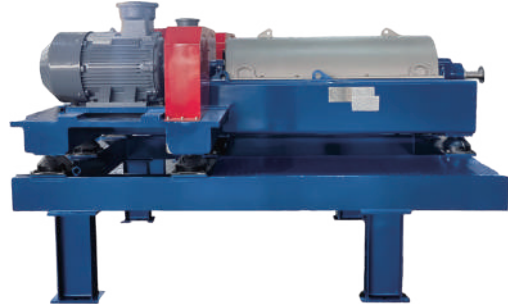
Designed for efficient solids separation and maximum drilling fluid recovery, the vacuum-assisted system improves separation performance while reducing drilling waste and maintaining stable mud properties.

- ✓ Improved Cuttings Separation
- ✓ Reduced Drilling Fluid Loss
- ✓ Stable Mud Performance

2

DECANTER CENTRIFUGE

Advanced Solid Control Equipment



High-performance decanter centrifuge designed for fine solids removal, viscosity control, and drilling fluid recovery in demanding drilling operations.

- ✓ High-Speed Separation
- ✓ Adjustable Operation Parameters
- ✓ Reduced Waste Disposal Cost

3

VERTICAL CUTTING DRYER

Advanced Drilling Waste Management Solution



Designed to recover valuable drilling fluids from oil-based and synthetic-based cuttings while minimizing waste volume and environmental impact.

- ✓ Up to 420G Separation Force
- ✓ High Oil Recovery Efficiency
- ✓ Environment-friendly Waste Management

4

VACUUM SOLIDS CONVEY PUMP

Efficient Suction. Reliable Transport.



Reliable vacuum conveying technology designed for safe and efficient transportation of drilling solids and waste materials.

- ✓ Continuous Solids Handling
- ✓ Compact Modular Design
- ✓ Reduced Manual Handling

SHALE SHAKER

Advanced Solids Control for Modern Drilling Operations



In today's demanding drilling environments, effective solids control is critical to maintaining drilling fluid quality, maximizing ROP (rate of penetration), protecting downstream equipment, and reducing non-productive time (NPT). The Intelligent Shale Shaker delivers next-generation performance with intelligent automation, high G-force capabilities, and superior separation efficiency.

FEATURES:

Intelligent Control System

Automated vibration adjustment and real-time monitoring optimize performance across varying drilling conditions.

Large Screen Area

Maximizes processing capacity for high-flow rates.

Compact & Robust Design

Space-efficient skid-mounted configurations — single, double, or triple shakers — with durable construction for land and offshore rigs.

High & Adjustable G-force

Delivers powerful, tunable vibration for superior cuttings conveyance and fluid recovery.

Adjustable Deck Angle

Quick, on-the-fly adjustments to handle different mud properties and solids loads.

High Processing Capacity

Excellent performance on a wide range of materials — from top-hole sections to deep, high-pressure wells.



BENEFITS:

Increased Drilling Speed

Better solids removal maintains optimal mud weight and rheology.

Environmental Compliance

Drier cuttings and better fluid recovery support greener operations.

Ease of Maintenance

Quick screen changes, accessible components, and intelligent diagnostics.

Cost Savings

Reduced mud dilution, lower disposal volumes, and extended life of downstream equipment, including centrifuges, pumps, and more.

Reliability

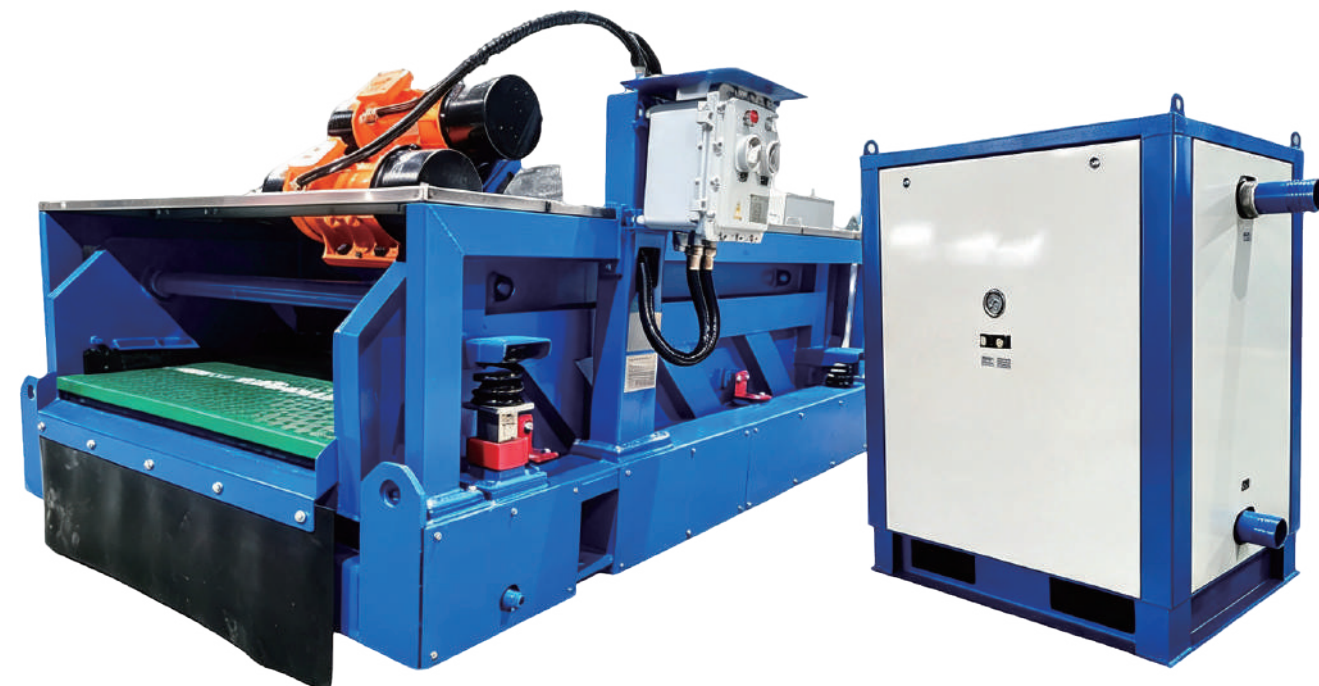
Proven in oil & gas, CBM, HDD, and geothermal drilling.

SHALE SHAKER SPECIFICATIONS

Model	HYBZS752	HYBZS583	HYBZS584	HYBZS585/HYBZS585S	HYBZS586D
Vibration mode	Linear Motion / Double Track				
Capacity	60m³/h	120m³/h	140m³/h	165m³/h	140m³/h
Motor	2×0.8kW	2×2.2kW	2×2.2kW	2×2.2+1×1.3kW	2×2.2kW
Screen Qty(pcs)	2	3	4	5	6
Screen Size	750×900mm	585×1165mm	585×1165mm	585×1165mm	Up: 750×900mm Down: 585×1165mm
Adjustable G Force	≥7.5G(Adjustable)				
Vibration Amplitude	4.5～6.0mm	4.5～6.0mm	4.5～6.0mm	4.5-6.3mm	4.5-6.3mm
Deck Angle	0～+2°	-1°～+5°			
Noise	<85db				
EX Standard	ExdII Bt4/IECEX/A-TEX				
Weight	900kg	1380kg	1530kg	1950kg	1630kg
Overall Dimensions	1659×1321×1040mm	2415×1978×1415mm	3004×1978×1415mm	3597×1978×1415mm	3004×1978×1415mm
Remark	Above capacity amount is just for reference, will be different depending on mesh number and mud conditions.				

VACUUM SUCTION SHALE SHAKER

Superior Solids Separation & Maximum Fluid Recovery



Traditional shale shakers often lose valuable drilling fluid with the cuttings, especially when drilling with oil-based or high-performance water-based muds. Our Vacuum Suction Shale Shaker (Vacuum Shale Shaker) revolutionizes solids control by applying controlled vacuum pressure beneath the screen. This technology dramatically improves liquid recovery, produces drier cuttings, and reduces overall waste volume.

Designed for demanding drilling operations, it delivers higher efficiency, lower mud costs, and better environmental compliance.

FEATURES:

Advanced Vacuum Technology

Powerful vacuum system applied under the shaker screen for enhanced fluid separation.

Drier Cuttings

Reduces Oil-on-Cuttings (OOC) content significantly — often achieving 5-8% or lower with OBM.

Anti-plugging Screen Performance

Vacuum helps pull fluid through the screen, reducing blinding and improving capacity.

Adjustable Vacuum & Deck Angle

Real-time optimization for varying drilling conditions.

High g-force Linear Motion

Combined with vacuum for superior cuttings conveyance and drying.

Increased Fluid Recovery

Recovers 20-40% more drilling fluid compared to conventional shakers.

Robust Construction

Heavy-duty frame, durable vibration motors, and corrosion-resistant materials.

Modular & Easy Integration

Seamlessly works with existing solids control systems, including downstream centrifuges and dryers.

BENEFITS:

Major Cost Savings

Recover more drilling fluid, reduce mud dilution and replacement costs.

Environmental Compliance

Lower oil retention on cuttings helps meet strict offshore and onshore discharge regulations.

Extended Equipment Life

Cleaner recycled mud reduces wear on downstream equipment.

Waste Minimization

Significantly drier cuttings mean lower disposal volumes and reduced transportation expenses.

Improved Drilling Efficiency

Better solids removal maintains optimal mud properties, leading to higher ROP (Rate of Penetration) and reduced NPT.

VACUUM SUCTION SHALE SHAKER SPECIFICATIONS

Model	FHYBZS583	FHYBZS584
Vibration mode	Linear Motion	
Capacity	≤120m³/h	≤140m³/h
Motor	2×2.2kW	
Screen Qty(pcs)	3	4
Screen Size	585×1165mm	585×1165mm
Adjustable G Force	≥7.5G	
Vibration Amplitude	4.5~6.0mm	
Deck Angle	-1°~5°	
Supply Air Pressure	0.55MPa-0.69MPa(5.6~7.0kgf/cm²)	
Air Capacity Required	7.9m³/min	
Recovery Efficiency	30%-50%	
EX Standard	ExdIIBt4/IECEx /A-TEX	
Weight	1420kg	1570kg
Overall Dimensions	2140×1978×1415mm	3004×1978×1415mm
Remark	No electrical, air operated, adjustable suction time	

VACUUM DEGASSER

Specialized Gas-Cut Drilling Fluid Processing Equipment



Vacuum Degasser is a specialized unit for gas-cut drilling fluid, also known as a negative pressure degasser. It rapidly eliminates invasive gases to restore mud weight and stabilize properties, and can function as a high-power agitator. Operating on a negative pressure principle, its scientific design ensures effective gas-liquid separation and impurity filtration, keeping the exhaust line unobstructed. Units with varying processing capacities are available to match different well depths.

BENEFITS:

Ultra-high Degassing Efficiency

Removes 95%-99% gas to ensure safe and stable drilling.

Multi-functional Utility

Works as both degasser and high-power agitator to save equipment cost.

Reliable & Safe Operation

World-class electrical components for stable performance in harsh environments.

Cost & Space Savings

No feeding pump required, simpler system, lower investment.

Superior Corrosion Resistance

Heavy-duty anti-corrosion coating ensures long service life.

Easy Installation & Mobility

Compact structure fits all rig space conditions.

FEATURES:

High Gas Removal Efficiency

High gas removal efficiency up to 95%-99%.

The vacuum feeding design eliminates the need for an additional feeding pump, ensuring stable, continuous operation with minimal auxiliary equipment.

Multi-Functional Operation

Designed with dual functionality: it not only removes gas but also acts as a high-power agitator. This helps prevent solids from settling in the mud tank and keeps the drilling fluid well mixed and homogeneous.

Premium Electrical Components

Key electrical components are sourced from world-renowned brands such as ABB, Siemens, and Schneider. This ensures reliable, safe, and low-maintenance operation in harsh oilfield environments.

Strong Vacuum Suction & Discharge Capacity

Built with high-performance vacuum system, delivering powerful suction and discharge capabilities. It can quickly and effectively remove large volumes of entrained gas from drilling fluids, maintaining optimal mud density and stability.

Enhanced Corrosion Protection

The entire unit, especially the internal wetted parts, is treated with high-quality anti-corrosion coatings. This significantly extends the service life of the equipment, even when operating under highly corrosive mud conditions.

Compact & Space-saving Design

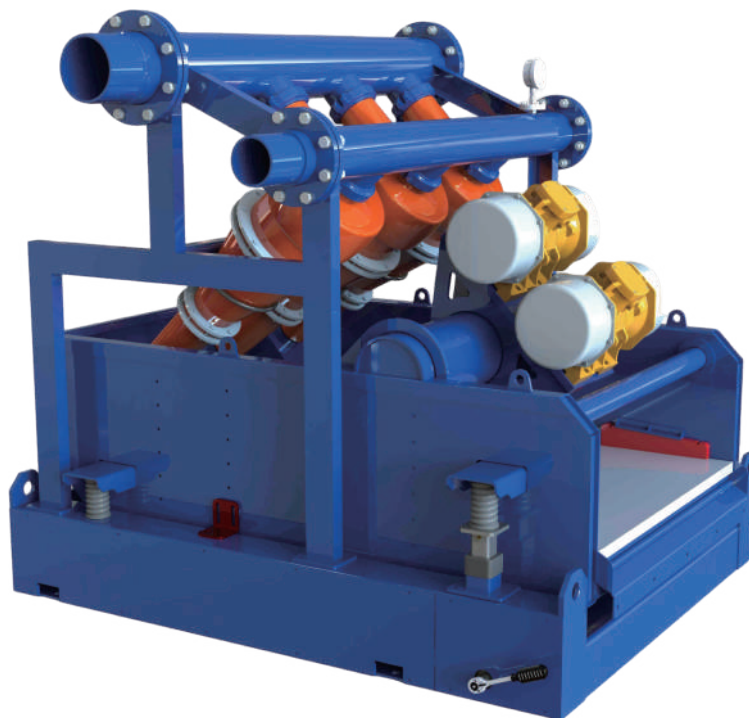
Features a compact, fully integrated structure with a small footprint. It is easy to install, position, and transport, making it ideal for use in limited space conditions on drilling rigs.

VACUUM DEGASSER SPECIFICATIONS

Model	HYBZCQ240	HYBZCQ270	HYBZCQ300	HYBZCQ360
Tank Diameter	700mm	800mm	900mm	1000mm
Capacity	240m³/h	270m³/h	300m³/h	360m³/h
Vacuum Degree	-0.03~-0.045MPa			
Drive Ratio	1.68			1.72
Handling Efficiency	≥95%			
Main Motor Power	15kW	22kW	30kW	37kW
Pump Motor Power	2.2kW	3kW	4kW	7.5kW
Rotation Speed	860RPM	870RPM	876RPM	880RPM
EX Standard	ExdIIBt4/IECEX /A-TEX			
Weight	1150kg	1450kg	1860kg	2500kg
Overall Dimensions	1750×860×1500mm	2000×1000×1670mm	2250×1330×1650mm	2400×1500×1850mm

DESANDER

Premium Solid Control Equipment



Desander is the secondary solids control equipment for drilling fluid processing. It typically utilizes 10" and 12" hydrocyclones to separate solid particles ranging from 45 μm to 75 μm . Multiple hydrocyclone units can be combined into a single assembly based on the client's required processing capacity. Henyo Petro offers two types of desanders: the Desander without a Bottom Shale Shaker and the Desander with a Bottom Shale Shaker.

BENEFITS:

Longer Service Life

100% PU cones deliver superior wear and corrosion resistance.

Flexible & Adaptable

Adjustable hydrocyclones and shaker sizes fit any capacity need.

Stable & Safe

Certified motors and top brand electrics ensure reliable 24/7 operation.

Higher Separation Efficiency

Effectively removes 45–75 μm particles for cleaner drilling fluid.

Lower Operating Cost

Less maintenance, reduced dilution, and fewer replacements.

Anti Clogging Performance

Special nozzle design ensures smooth discharge with no blockage.

FEATURES:

100% Polyurethane (PU) Desander Cones

Made of 100% high strength polyurethane material for outstanding wear and corrosion resistance, effectively prolonging service life and reducing maintenance costs.

Flexible Hydrocyclone Configuration

The number of hydrocyclones can be flexibly adjusted to meet different on site treatment capacity requirements, with strong adaptability.

Optional Shale Shaker Sizes

Supports a full range of shale shaker size configurations to match various working conditions and capacity demands.

Anti-Clogging Cone Outlet

Equipped with specially designed spraying nozzles at the cone outlet, ensuring smooth discharge and effectively eliminating clogging risks.



High-Efficiency Separation

Delivers excellent solid liquid separation performance, capable of effectively separating drilling cuttings sized 45–75 μm to ensure cleaner drilling fluid.

Compact & High-Efficiency

Compact integrated structure with small footprint, easy for installation, layout and transportation, ideal for limited working space.

Certified Drand Vibration Motors

Adopts internationally renowned brand vibration motors with IECEx, ATEX and UL certifications, ensuring stable and safe operation.

Reliable Electrical Components

Equipped with high quality electrical parts from SIEMENS and Schneider, delivering stable performance, low failure rate and long service life.

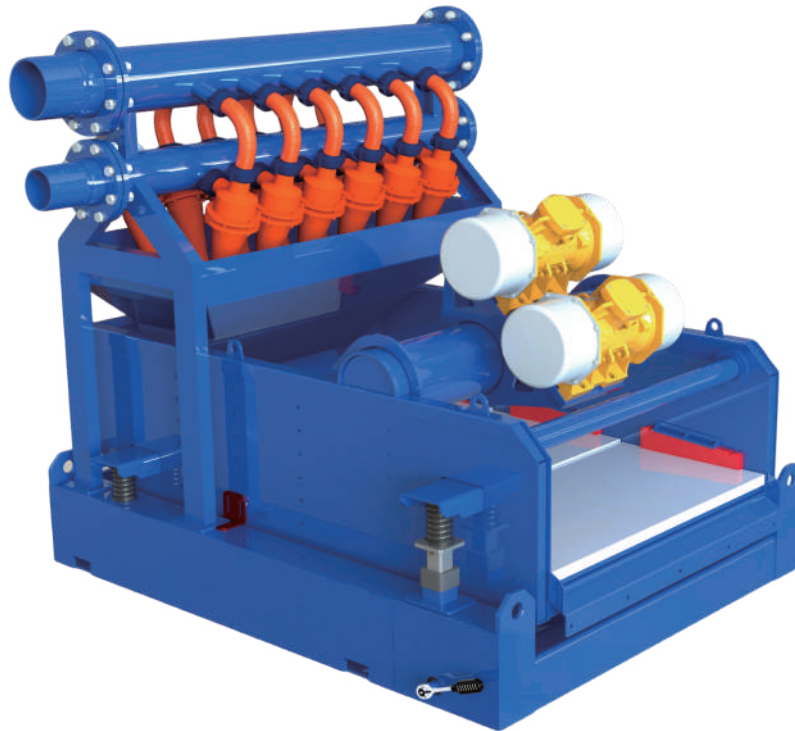


DESANDER SPECIFICATIONS

Model	HYBZCS200-1S/2S	HYBZCS250-1S/2S	HYBZCS300-2S/3S
Capacity	60 / 120m ³ /h	120 / 240m ³ /h	240 / 360m ³ /h
Desander Size	8inch	10inch	12inch
Desander Qty(pcs)	1 / 2		
Working Pressure	0.25-0.4MPa		
Particle Size	45 μm -75 μm		
Shaker	HYBZS60		HYBZS752
EX standard	ExdIIIBt4/IECEx /A-TEX		
Overall Dimensions	1510x1160x2000mm	1510x1360x2250mm	1820x1660x1810mm

DESILTER

Premium Solid Control Equipment



Desilter is tertiary solids control equipment used in the processing of drilling fluid. It is primarily designed to separate solid particles ranging from 15 to 45 μm from the drilling mud. Within the solids control system, the desilter is typically positioned downstream of the desander and upstream of the decanter centrifuge to isolate finer solid particles.

The number of hydrocyclones configured in the assembly is determined based on the client's specific processing capacity requirements. Henyo Petro offers two types of desilters: the standard desilter without an underflow screen and the desilter equipped with an underflow shale shaker.

DESILTER SPECIFICATIONS

Model	HYBZCN100-6N	HYBZCN100-8N	HYBZCN100-12N	HYBZCN100-16N
Capacity	90m ³ /h	120m ³ /h	240m ³ /h	360m ³ /h
Desilter Size	4inch			
Desilter Qty(pcs)	6	8	12	16
Working Pressure	0.25-0.4MPa			
Particle Size	15 μm -45 μm			
Shaker	HYBZS60			HYBZS752
EX Standard	ExdIIBt4/IECEx /A-TEX			
Overall Dimensions	1510x1360x1810mm	1510x1360x1810mm	1835x1430x2085mm	1835x1430x2085mm

FEATURES:

Premium 100% Polyurethane (PU) Hydrocyclone Cones

Constructed entirely from high-strength polyurethane material, the Desilter cones offer exceptional wear and corrosion resistance. This significantly extends their service life, even under highly abrasive mud conditions, while reducing maintenance and replacement costs.

Flexible Hydrocyclone Configuration

The number of hydrocyclones can be flexibly adjusted to meet different on-site treatment capacity requirements. This modular design ensures strong adaptability to varying flow rates and well conditions.

Multiple Shale Shaker Size Options

Supports a full range of shale shaker size configurations to match various working conditions and capacity demands, ensuring optimal performance in every application.

Certified Premium Vibration Motors

Equipped with world-famous brand vibration motors, certified to IECEx, ATEX, and UL standards. These motors ensure reliable, stable, and safe operation in hazardous and explosive environments.

High-efficiency Fine Particle Separation

Delivers excellent solid-liquid separation performance, capable of effectively removing drilling cuttings in the 15–45 μm range. This ensures cleaner drilling fluid, improves the efficiency of downstream equipment, and protects pumps and other critical components from premature wear.

BENEFITS:

Longer Service Life

100% PU cones provide outstanding wear and corrosion resistance.

Flexible & Adaptable

Adjustable hydrocyclone quantity matches any on-site capacity needs.

Anti-clogging & Stable

Special spray nozzle ensures continuous operation without blockage.

Safe & Reliable

IECEx, ATEX, UL certified motors and top-brand electrics ensure safe running.

Compact & Space-saving Design

Features a compact, integrated structure with a small footprint. It is easy to install, position, and transport, making it ideal for use in limited space conditions on drilling rigs.

Anti-Clogging Spray Nozzle Design

The cone outlet is equipped with a specialized spray nozzle design, which effectively prevents blockages caused by high-concentration or high-viscosity mud, ensuring continuous and trouble-free operation.

Top-tier Electrical Components

Key electrical components are sourced from reputable brands such as SIEMENS and Schneider, ensuring reliable, safe, and low-maintenance operation in harsh oilfield environments.



Higher Separation Precision

Efficiently removes 15–45 μm fine particles to protect downstream equipment.

Space & Cost Saving

Compact structure saves rig space and lowers installation & transport cost.

Low Maintenance Cost

Durable structure reduces frequent replacements and downtime.

MUD CLEANER

Premium Integrated Solid Control Equipment



Mud Cleaner is a combo unit that serves as the secondary and tertiary solids control equipment for drilling mud. It integrates a desander hydrocyclone, a desilter hydrocyclone, and an underflow shale shaker into a single, three-in-one assembly.

With its compact structure, minimal footprint, and powerful processing capabilities, this integrated unit is the ideal solution for performing both secondary and tertiary solid phase control of drilling mud.

BENEFITS:

Longer Service Life

100% PU cones provide outstanding wear and corrosion resistance.

Flexible & Adaptable

Adjustable hydrocyclones and shaker sizes fit various capacity requirements.

3-In-1 Integrated Advantage

The liquid discharge weir height is easily adjustable, allowing operators to fine-tune the separation point and adapt to different mud properties and processing requirements.

High-efficiency Separation

Removes 15–75 μm particles to meet comprehensive solids control demands.

Low Operating Cost

Durable structure, easy maintenance and high integration lower total cost.

Safe & Reliable

Certified motors and top-brand electrical parts guarantee safe running in hazardous areas.

FEATURES:

100% Polyurethane (PU) Hydrocyclone Cones

The Desander and Desilter cones are made entirely of high-strength polyurethane material, offering outstanding wear and corrosion resistance. This effectively extends service life and reduces long-term maintenance costs.

High-efficiency Multi-Range Separation

Delivers excellent solid-liquid separation performance, capable of removing drilling cuttings in the 15–75 μm range, ensuring cleaner drilling fluid for improved downstream process efficiency.

3-In-1 Compact Design

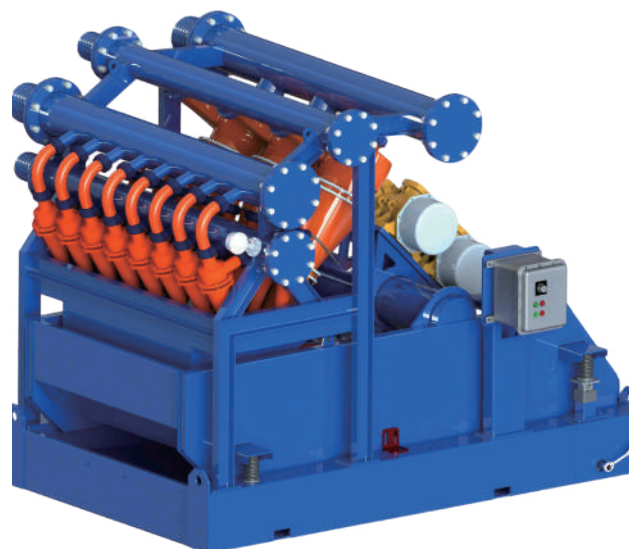
Integrates desander, desilter, and shale shaker functions into one unit. The compact, all-in-one structure has a small footprint, making it ideal for limited rig space while reducing installation and transportation costs.

Flexible Hydrocyclone Configuration

The number of hydrocyclones can be flexibly adjusted to suit different on-site treatment capacities and well conditions, ensuring strong adaptability across various applications.

Multiple Underflow Shaker Size Options

A full range of underflow shale shaker sizes is available, allowing you to select the most suitable configuration for your specific flow rate and solids control requirements.



Anti-clogging Spray Nozzle Design

The cone outlet features a specialized spray nozzle design, effectively preventing blockages caused by high-viscosity or high-solids mud, ensuring continuous and trouble-free operation.

Certified Premium Vibration Motors

Equipped with famous brand vibration motors certified to IECEx, ATEX, and UL standards, ensuring reliable, safe, and explosion-proof performance in hazardous oilfield environments.

Top-tier Electrical Components

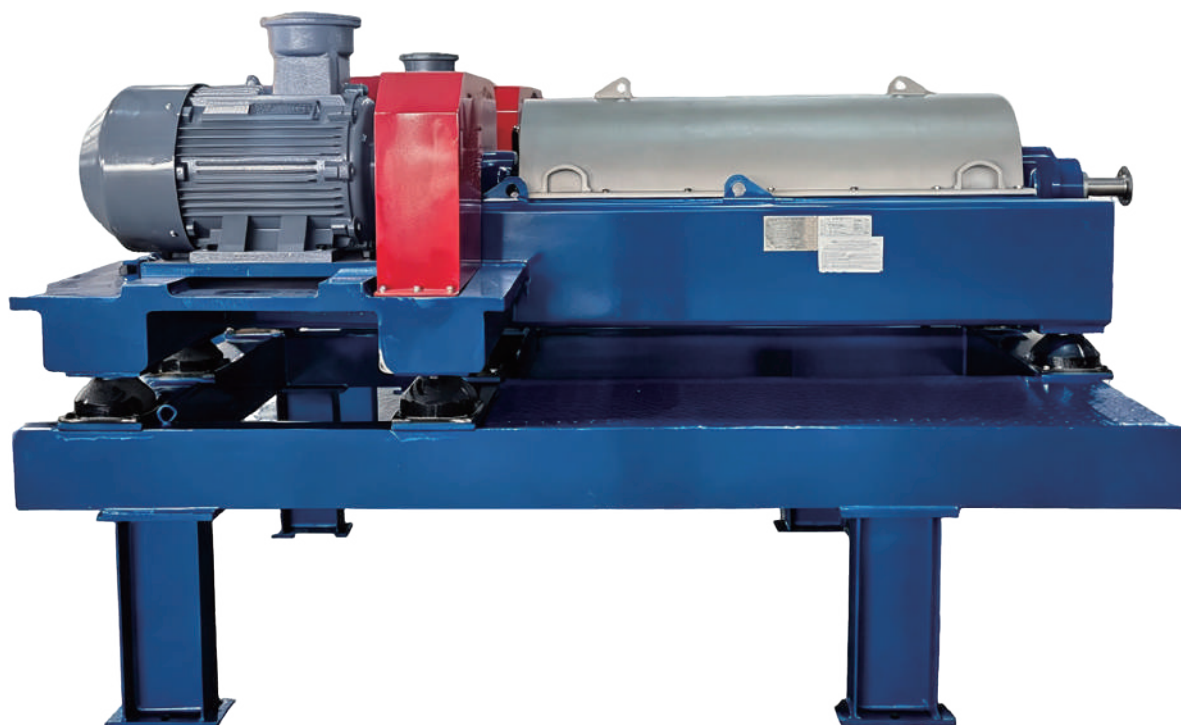
Key electrical components are sourced from leading brands such as SIEMENS and Schneider, ensuring stable, low-maintenance operation even under harsh working conditions.

MUD CLEANER SPECIFICATIONS

Parameter	HYBZQJ583-1S8N	HYBZQJ583-2S12N	HYBZQJ583-3S16N	HYBZQJ584-2S12N	HYBZQJ584-3S16N
Capacity	120m ³ /h	240m ³ /h	360m ³ /h	240m ³ /h	360m ³ /h
Desander Size	10inch	10inch	10inch	10inch	10inch
Desander Qty (pcs)	1	2	3	2	3
Desilter Size	4inch	4inch	4inch	4inch	4inch
Desilter Qty (pcs)	8	12	16	12	16
Working Pressure	0.25 ~ 0.4MPa	0.25 ~ 0.4MPa	0.25 ~ 0.4MPa	0.25 ~ 0.4MPa	0.25 ~ 0.4MPa
Particle Size	15 ~ 45 μm	15 ~ 45 μm	15 ~ 45 μm	15 ~ 45 μm	15 ~ 45 μm
Shaker Model	HYBZS583	HYBZS583	HYBZS583	HYBZS584	HYBZS584
EX Standard	ExdII Bt4/IECEx /A-TEX	ExdII Bt4/IECEx /A-TEX	ExdII Bt4/IECEx /A-TEX	ExdII Bt4/IECEx /A-TEX	ExdII Bt4/IECEx /A-TEX
Weight	2010kg	2285kg	2380kg	2260kg	2392kg
Overall Dimensions	2410×1978×2147mm	2410×1978×2147mm	2410×1978×2147mm	3004×1978×2147mm	3004×1978×2147mm

DECANTER CENTRIFUGE

Advanced Solid Control Equipment



Also known as a drilling fluid centrifuge, Decanter Centrifuge is independently developed to achieve variable frequency and constant speed automatic control within the solids control system. As the fourth-stage solids control equipment in the drilling mud system, it handles the finest particle separation. Utilizing the principle of centrifugal sedimentation, it separates suspensions within the drilling fluid and is crucial for balancing drilling fluid viscosity and restoring mud weight, primarily targeting the removal of solid particles ranging from 2 to 5 μm .

BENEFITS:

High Efficiency & Capacity

High G-force and ideal L/D ratio deliver stable, high-volume processing.

Ultrafine Separation Performance

Effectively removes particles as small as 2–7 μm for highest-level mud cleanliness.

Safe & Reliable Electrics

World-class components guarantee stable operation in harsh oilfield environments.

Low Operation & Maintenance Cost

Wear-resistant design, premium bearings and easy maintenance reduce downtime.

Strong & Durable Structure

Duplex stainless steel bowl and tungsten carbide wear protection ensure long service life.

Flexible & Adaptive

Adjustable weir, variable speed control and multiple bowl sizes fit all mud conditions.

Stable & Quiet Running

High-strength damping system and enhanced bearing protection ensure smooth, reliable performance.

FEATURES:

Versatile Bowl Diameter Range

Offers a wide selection of bowl diameters to perfectly match diverse mud cleaning applications, from general solids control to fine particle separation.

High G-force & Large Processing capacity

With large bowl diameters and high rotation speeds, the centrifuge generates powerful G-forces, enabling it to handle large volumes of drilling mud efficiently without compromising separation performance.

Superior Separation Efficiency

The bowl's length-to-diameter ratio reaches up to 3, delivering exceptional separation efficiency for fine solid particles as small as 2–7 μm , ensuring cleaner drilling fluid.

Flexible Liquid Level Adjustment

The liquid discharge weir height is easily adjustable, allowing operators to fine-tune the separation point and adapt to different mud properties and processing requirements.

Protected Screw Conveyor

The screw conveyor is lined with replaceable tungsten carbide tiles or hard alloy protection. This significantly extends its service life and simplifies maintenance, reducing downtime and operating costs.

Flexible Speed Control Options

Both fixed-frequency and variable-frequency control systems are available, allowing the centrifuge to adapt to different mud conditions, flow rates, and separation objectives.

Premium Bearings For Reliability

Equipped with high-quality FAG or SKF bearings, ensuring long service life and consistent, trouble-free performance in demanding oilfield environments.

High-strength Bowl Construction

The bowl's cylindrical and conical sections are precision-cast from duplex stainless steel (SS316L or SS2205), providing excellent wear and corrosion resistance for long-term, reliable operation.

Enhanced Bearing Protection

The bowl assembly is driven by a tighter belt system, which helps absorb shock loads and protect the bearings during operation, improving reliability.

High-strength Vibration Damping

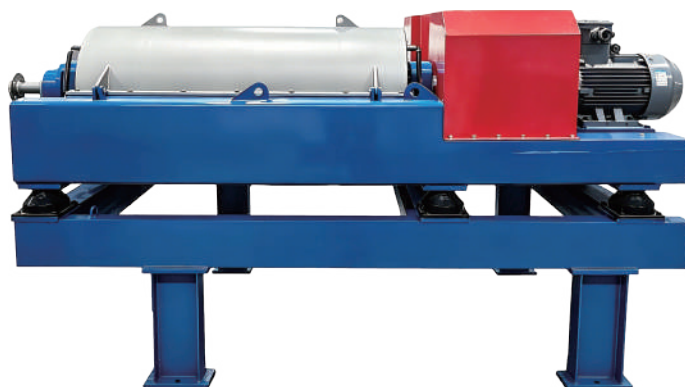
Shock absorbers are made of high-strength composite materials, effectively isolating vibration and ensuring stable, quiet operation even under high loads.

Wear-resistant Critical Ports

The screw conveyor's flow distribution ports and the bowl's solids discharge ports are protected with tungsten carbide alloy or ceramics, minimizing wear in high-velocity, abrasive flow areas.

Top-tier Electrical Components

Key electrical components are sourced from SIEMENS and Schneider, ensuring safe, reliable, and low-maintenance operation under harsh working conditions.

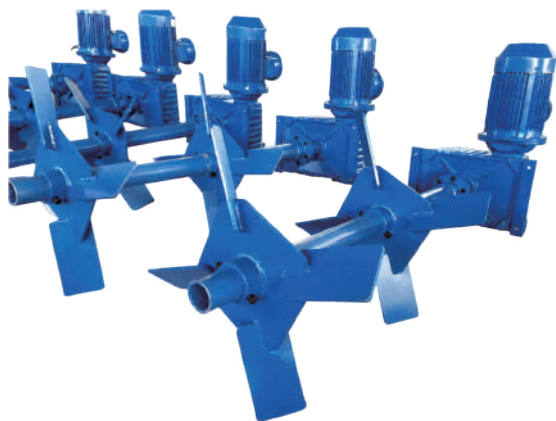


DECANTER CENTRIFUGE SPECIFICATIONS

Model	HYBZLW250-1075	HYBZLW355-1250	HYBZLW450-1000	HYBZLW530-2279	HYBZLW650-2795
Bowl Diameter	250mm	355mm	450mm	530mm	650mm
Bowl Length	1075mm	1250mm	1000mm	2279mm	2795mm
Max Capacity	$\leq 5\text{m}^3/\text{h}$	$\leq 40\text{m}^3/\text{h}$	$\leq 60\text{m}^3/\text{h}$	$\leq 70\text{m}^3/\text{h}$	$\leq 80\text{m}^3/\text{h}$
Max Bowl Speed	3800RPM	3200RPM	2200RPM	3500RPM	3200RPM
Max G Force	2835	2435	1215	3635	3720
Particle Size	2–5 μm		5–7 μm	2–5 μm	
Main Motor Power	7.5kW	37kW	37kW	55kW	90kW
Helper Motor Power	3kW	11kW	7.5kW	15kW	22kW
EX Standard	ExdII BT4/IECEx/ATEX				
Weight	1000kg	2750kg	2800kg	6400kg	8000kg
Overall Dimensions	2200x1010x720mm	2960x1550x1730mm	2750x1550x1750mm	4875x1260x1465mm	5595x1350x1548mm
Remark	Max capacity is for clean water, Fixed speed and frequency conversion centrifuges are available.				

MUD AGITATOR

Key Solids Control Equipment for Drilling Fluid Tank Systems



Mud Agitator utilizes a worm-gear reduction drive, offering advantages such as high transmission torque and smooth operation. As a key piece of solids control equipment within the drilling fluid tank system, it is primarily used for mixing and agitating drilling fluid. It effectively prevents the sedimentation of solid particles within the tank circulation system, thereby ensuring stable performance and uniform consistency of the circulating drilling fluid.

BENEFITS:

Strong & Stable Mixing

Large torque turbo & worm gear ensures efficient agitation under heavy loads.

Safe & Explosion-Proof

Explosion-proof motor with good heat dissipation for hazardous oilfield areas.

Long Service Life

Galvanized anti-corrosion shafts and impellers extend working life sharply.

FEATURES:

High-performance Turbo & Worm Gear Reducer

Equipped with turbo and worm gear speed reducers, delivering large torque transmission with smooth, stable performance under heavy loads.

Explosion-proof & Efficient Heat Dissipation

The system pairs an explosion-proof motor with a matched reducer, offering excellent heat exchange performance to maintain safe, continuous operation in hazardous environments.

Corrosion-resistant Galvanized Components

The shaft and impeller undergo galvanizing treatment, providing superior anti-rust and corrosion resistance for long service life in harsh, corrosive mud conditions.

High-strength Construction

Built with robust, high-strength shafts and impellers, designed to withstand continuous high-load mixing and agitation in demanding drilling applications.

Compact & Space-saving Design

Features a compact, streamlined structure with a small footprint, making it easy to install and integrate into limited-space mud tank layouts.

Customizable Design Options

Both the shaft length and impeller diameter can be customized to match specific tank dimensions, flow rates, and mixing requirements for different drilling projects.

High Strength & Durability

Rugged structure withstands long-term high-load operation.

Easy Installation & Space Saving

Compact design fits all mud tank layouts.

Fully Customizable

Flexible shaft length and impeller diameter to fit any tank or project.

MUD AGITATOR SPECIFICATIONS

Model	Motor	Speed	Impeller	Impeller Qty(pcs)	Ratio	EX Standard	Weight	Overall Dimension
HYBZJBQ030D	3kW	60/72RPM (50HZ/60HZ)	650mm	1	25:1	ExdIIBt4/IECEX/A-TEX	150kg	715x560x470mm
HYBZJBQ055D	5.5kW		850mm	1			280kg	890x700x600mm
HYBZJBQ075D	7.5kW		950mm	1			285kg	980x750x605mm
HYBZJBQ075S			800mm	2			295kg	
HYBZJBQ110D	11kW		1050mm	1			400kg	1130x840x650mm
HYBZJBQ110S			850mm	2			420kg	
HYBZJBQ150D	15kW		1100mm	1			425kg	1160x840x650mm
HYBZJBQ150S			950mm	2			440kg	
HYBZJBQ185S	18.5kW		1050mm	2			750kg	1270x1000x730mm
HYBZJBQ220S	22kW		1100mm	2			820kg	1270x1000x730mm

MUD GUN

Efficient Tank Cleaning for Reliable Drilling Fluid Performance

In drilling mud solids control systems, maintaining homogeneous drilling fluids and preventing solids settlement are essential for stable system performance. Accumulated solids in mud tanks can reduce fluid quality, increase maintenance requirements, and negatively affect downstream equipment efficiency.

Mud Gun is engineered to provide powerful and efficient tank cleaning by preventing solids accumulation in tank corners and maintaining proper mud circulation. Working together with mud agitators, it ensures consistent drilling fluid performance and optimized solids suspension throughout the tank system.

FEATURES:

Powerful Jetting Performance

Designed with high jet power to deliver strong spraying capability for effective tank cleaning and improved solids suspension.

Fixed Or Rotary Design

Optional fixed and rotary structures allow operators to select the most suitable cleaning solution for various tank layouts.

Multiple Pump Compatibility

Can be easily matched with centrifugal pumps, mud pumps, or shear pumps, providing flexible system integration.

Flexible Configuration Options

Available in low-pressure, medium-pressure, and high-pressure configurations to match different operational requirements.

Wear-Resistant Nozzle Materials

Discharge nozzles are available in polyurethane or tungsten carbide alloy, ensuring durability under demanding drilling conditions.

Durable Anti-Corrosion Construction

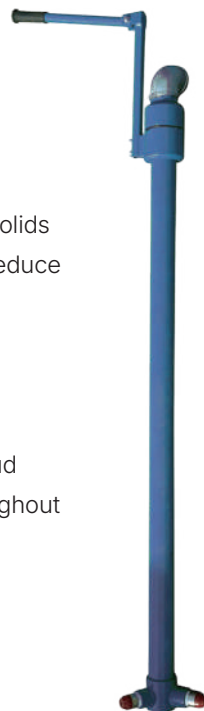
Manufactured with high-quality steel, treated through acid cleaning and galvanizing for excellent corrosion resistance and long service life.

Simple And Reliable Operation

Compact structure and user-friendly design make installation, operation, and maintenance easy and efficient.

Wide Cleaning Coverage

Large spraying area effectively cleans tank corners and difficult-to-reach sections, minimizing solids settling.



BENEFITS:

Improved Mud Performance

Prevents solids deposition and helps maintain uniform drilling fluid properties.

Reduced Maintenance Costs

Minimizes tank cleaning frequency and lowers operational downtime.

Enhanced Equipment Protection

Cleaner mud circulation helps reduce wear on downstream solids control equipment.

Flexible System Integration

Compatible with multiple pump types and adaptable to various tank configurations.

Reliable Long-term Operation

Corrosion-resistant construction and wear-resistant nozzles ensure dependable performance in harsh drilling environments.

MUD GUN SPECIFICATIONS

Model	HYBZNJQ-50G	HYBZNJQ-50X	HYBZNJQ-80G	HYBZNJQ-80X
Gun Diameter	50mm		80mm	
Connection Size	2inch		3inch	
Rotation Angle	0°	0-360°	0°	0-360°
Nozzle Qty(pcs)	3			
Working Pressure	1.0-6.4MPa			

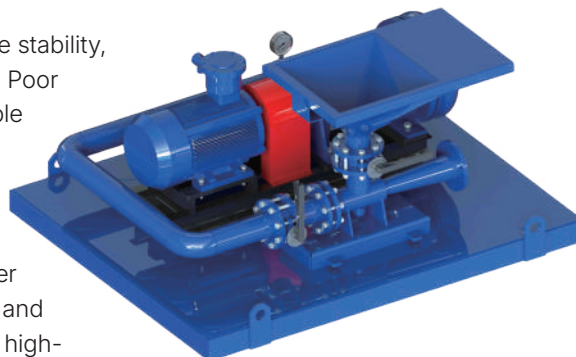
JET MUD MIXER

Efficient Mud Mixing for Superior Drilling Fluid Performance

Effective drilling fluid preparation is essential for maintaining wellbore stability, improving drilling performance, and ensuring efficient solids control. Poor additive mixing or incomplete bentonite hydration can lead to unstable mud properties, excessive material consumption, and increased operational costs.

Jet Mud Mixer is specially designed to efficiently prepare and weight drilling fluids by rapidly adding and mixing bentonite and other drilling additives. It effectively adjusts drilling fluid density, viscosity, and dehydration performance, helping operators achieve consistent and high-quality mud properties for demanding drilling operations.

Installed with a sand pump and jet mixing system on an integrated base with piping and valves, the HY Jet Mud Mixer provides a compact, reliable, and highly efficient mud mixing solution. For enhanced performance, it can be paired with a shear pump to further improve additive hydration efficiency.



FEATURES:

High-Efficiency Mud Mixing

Designed for rapid mixing and weighting of drilling fluids, ensuring faster preparation and improved drilling fluid consistency.

Large Hopper Capacity

Features a large hopper inlet diameter, enabling high mixing capacity and smooth material feeding for improved efficiency.

Compact & Mobile Structure

Integrated compact design requires minimal installation space and allows for easier transportation and site movement.

Flexible System Configuration

Available in single-hopper or twin-hopper configurations, with optional dual-pump systems to meet different operational requirements.

Wide Material Compatibility

Suitable for mixing bentonite, polymers, and other drilling fluid additives, meeting diverse drilling fluid requirements.

Optimized Spray Design

Specially engineered spraying structure ensures sufficient mixing time and excellent blending performance for better additive dispersion.

Reliable & Durable Construction

Equipped with explosion-proof motors and electrical components, combined with mechanical seal pumps for enhanced safety, durability, and long service life.

Enhanced Performance With Shear Pump Integration

When combined with a HY Shear Pump, hydration efficiency of bentonite and polymers is significantly improved, delivering superior drilling fluid quality.

BENEFITS:

Improved Mud Quality

Ensures consistent drilling fluid density, viscosity, and rheological properties.

Reduced Material Consumption

Efficient mixing minimizes additive waste and improves bentonite utilization.

Higher Operational Efficiency

Accelerates mud preparation and reduces waiting time during drilling operations.

Flexible Application Capability

Adaptable to various drilling fluid systems and operational environments.

Long-term Reliable Performance

Durable construction and high-quality components ensure dependable operation in demanding field conditions.

JET MUD MIXER SPECIFICATIONS

Model	HYBZSL150-50	HYBZSL150-40	HYBZSL150-30	HYBZSL100-25
Capacity	240m³/h	180m³/h	120m³/h	60m³/h
Pump Model	HYBZSB8X6-13	HYBZSB6X5-13	HYBZSB5X4-13	HYBZSB4X3-12
Pump Power	55kW	45kW	37kW	11kW
Working Pressure	0.25~0.4Mpa			
Inlet	DN150			DN100
Nozzle	50mm	40mm	30mm	25mm
Outlet	600X600mm			
Mixing Speed	≤100kg /min	≤80kg /min	≤60kg /min	≤40kg /min
Mud Weight	≤2.8g/cm³	≤2.4g/cm³	≤2.0g/cm³	≤2.0g/cm³
Mud Viscosity	≤100s	≤80s	≤60s	≤40s
EX Standard	ExdIIBt4/IECEX/A-TEX			
Overall Dimensions	2200×1700×1200mm	2200×1700×1200mm	2000×1650×1100mm	2000×1650×1100mm

CENTRIFUGAL PUMP

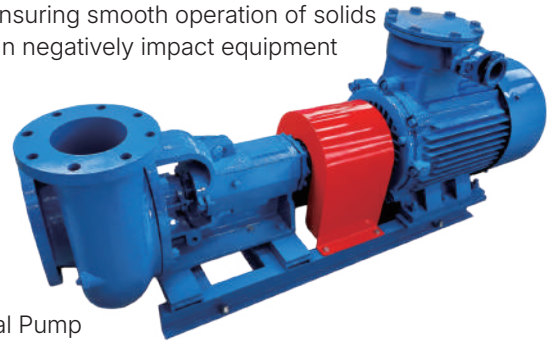
Reliable Fluid Transfer for Efficient Solids Control Systems



Reliable fluid transfer is essential for maintaining drilling efficiency and ensuring smooth operation of solids control systems. Inefficient mud circulation or unstable slurry transfer can negatively impact equipment performance, drilling fluid quality, and overall operational productivity.

Centrifugal Pump is engineered for efficient transfer of slurry, drilling mud, and wastewater in demanding drilling environments. Designed for durability, high performance, and long service life, it plays a critical role across multiple solids control applications, including desander, desilter, jet mud mixer, and rig mud pump system.

With robust construction and wear-resistant materials, the HY Centrifugal Pump delivers dependable performance even under abrasive operating conditions.



FEATURES:

Versatile Fluid Transfer Performance

Efficiently handles slurry, drilling mud, and wastewater, supporting stable fluid circulation throughout the drilling process.

Multi-functional System Integration

Widely used as a feeding pump for desander and desilter, a mixing pump for jet mud mixer, as well as a trip pump and supercharging pump for rig mud pump.

Durable Mechanical Seal Technology

Equipped with a tungsten carbide mechanical seal, ensuring reliable sealing performance, reduced leakage risk, and extended operational life.

Heavy-duty Wear-resistant Construction

The pump casing and impeller are manufactured from hard ductile iron alloy, providing superior wear resistance and durability under harsh drilling conditions.

Robust Supporting Structure

Mounted on a cast support skid for enhanced stability, durability, and long-term field reliability.

Compact & Low-maintenance Design

Compact footprint minimizes installation space requirements while maintaining low noise levels and reduced maintenance costs.

Premium Bearing System

Uses high-quality branded bearings to ensure smooth operation, improved reliability, and longer equipment lifespan.

BENEFITS:

Lower Operating Costs

Wear-resistant materials and durable sealing technology reduce maintenance and replacement frequency.

Improved System Efficiency

Ensures consistent fluid transfer for optimized solids control performance.

Enhanced Equipment Reliability

Stable fluid circulation helps maintain reliable operation of downstream equipment.

Flexible Application Capability

Suitable for multiple functions across drilling fluid circulation and solids control systems.

Long Service Life

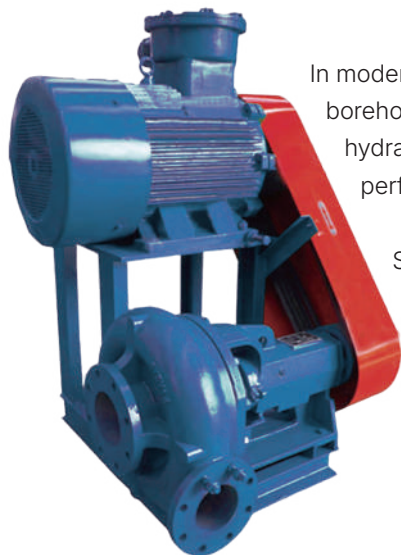
Premium materials and robust engineering deliver dependable long-term performance in demanding drilling environments.

CENTRIFUGAL PUMP SPECIFICATIONS

Model	Flow	Lift	Motor	Speed	Impeller
HYBZSB8X6-14	320m³/h	40m	75kW	1450RPM(50HZ)	14in
HYBZSB8X6-12	350m³/h	42m		1750RPM(60HZ)	12in
HYBZSB8X6-13	280m³/h	35m	55kW	1450RPM(50HZ)	13in
HYBZSB6X5-12	200m³/h	45m		1750RPM(60HZ)	12in
HYBZSB6X5-13	180m³/h	35m	45kW	1450RPM(50HZ)	13in
HYBZSB5X4-14	150m³/h	60m		1750RPM(60HZ)	14in
HYBZSB6X5-12	160m³/h	30m	37kW	1450RPM(50HZ)	12in
HYBZSB5X4-12	110m³/h	45m		1750RPM(60HZ)	12in
HYBZSB6X5-11	200m³/h	21m	30kW	1450RPM(50HZ)	11in
HYBZSB5X4-11	110m³/h	35m		1750RPM(60HZ)	11in
HYBZSB5X4-12	90m³/h	30m	22kW	1450RPM(50HZ)	12in
HYBZSB5X4-10	100m³/h	30m		1750RPM(60HZ)	10in
HYBZSB5X4-11	90m³/h	24m	18.5kW	1450RPM(50HZ)	11in
HYBZSB4X3-12	55m³/h	45m		1750RPM(60HZ)	12in
HYBZSB4X3-13	50m³/h	40m	15kW	1450RPM(50HZ)	13in
HYBZSB4X3-11	55m³/h	35m		1750RPM(60HZ)	11in
HYBZSB4X3-12	45m³/h	30m	11kW	1450RPM(50HZ)	12in
HYBZSB3X2-12	28m³/h	45m		1750RPM(60HZ)	12in
HYBZSB3X2-12	45m³/h	24m	7.5kW	1450RPM(50HZ)	12in
HYBZSB3X2-11	25m³/h	35m		1750RPM(60HZ)	11in
HYBZSB3X2-11	20m³/h	23m	5.5kW	1450RPM(50HZ)	11in

SHEAR PUMP

Advanced Polymer Hydration for High-Performance Drilling Fluids



In modern drilling operations, achieving high-quality drilling fluid is critical for maintaining borehole stability, reducing fluid loss, and improving drilling efficiency. However, incomplete hydration of additives such as polymers and bentonite clay can lead to poor mud performance, excessive material consumption, and increased operating costs.

Shear Pump is specifically engineered to deliver rapid mixing, efficient hydration, and high shearing performance for drilling fluid additives. By accelerating the dilution and hydration process, it helps operators produce premium drilling mud while reducing additive consumption and improving overall solids control performance.

BENEFITS:

Higher Drilling Efficiency

Rapid hydration accelerates drilling fluid preparation and improves operational productivity.

Lower Mud Treatment Costs

Reduced polymer and bentonite consumption minimizes overall drilling fluid expenses.

Better Mud Performance

Improved rheology, gel strength, and fluid loss control help maintain drilling stability.

Reduced Non-productive Time (NPT)

Reliable operation and faster mud conditioning reduce delays during drilling operations.

Long-term Reliability

Premium materials and sealing technology ensure dependable performance and extended equipment lifespan.

FEATURES:

High-efficiency Shearing Performance

Equipped with a unique impeller and shear plate design, delivering over 95% shearing efficiency for fast and effective polymer and clay hydration.

Rapid Polymer & Bentonite Hydration

Provides strong shearing force to significantly improve hydration efficiency, enabling faster preparation of high-performance drilling fluids.

Reduced Additive Consumption

Optimized hydration performance can reduce bentonite and polymer consumption by up to 15%, lowering mud treatment costs.

Improved Drilling Fluid Properties

Enhances mud quality by reducing mud cake thickness, minimizing fluid loss, improving gel strength, and optimizing rheological performance.

Large Capacity & High Lift

Designed with high flow capacity and lifting performance, ensuring stable and efficient operation under demanding drilling conditions.

Reliable Mechanical Seal Technology

Adopts advanced mechanical sealing systems for dependable performance, reduced leakage risk, and extended service life.

Durable Wear-Resistant Construction

The stainless-steel shear plate ensures superior durability and long-term operation in abrasive drilling environments.

Premium Oil Seal Design

Features imported fluororubber oil seals with excellent cooling performance, improving equipment reliability and operational stability.

SHEAR PUMP SPECIFICATIONS

Model	HYBZJB6X5-37	HYBZJB6X5-55
Flow	100m³/h	155m³/h
Lift	28m	32m
Motor	37kW	55kW
Speed	1900RPM	2280RPM
EX Standard	ExdIIIBT4/IECEx/A-TEX	

SUBMERSIBLE SLURRY PUMP

Move Tough Slurries with Power, Reliability & Efficiency



Handling abrasive, high-solids slurries in mining, dredging, drilling waste management, tunneling, construction, and wastewater applications is one of the toughest jobs on site. Traditional pumps often fail due to clogging, excessive wear, or priming issues. Our Submersible Slurry Pump is engineered for extreme conditions — delivering reliable performance while fully submerged, even with solids concentrations up to 70%.

FEATURES:

High-chrome Alloy Wear Parts

Impeller, volute, and liner made from premium abrasion-resistant materials for extended service life in harsh slurries.

Heavy-duty Agitator

Powerful bottom agitator keeps solids in suspension, preventing clogging and ensuring consistent flow.

Robust Motor Design

Class H insulation, thermal protection, and double mechanical seals to prevent slurry ingress and allow run-dry capability in many models.

Large Passage Impeller

Handles large particles (up to 60mm+ depending on model) without clogging.

Compact & Portable

Easy to lower into sumps, pits, tanks, or ponds — no complex priming or infrastructure required.

Wide Range

Available in power ratings from 4 kW to 45 kW, flow rates up to 270 m³/h, and high-head configurations.

BENEFITS:

Exceptional Durability

Resists abrasion and corrosion, significantly reducing maintenance frequency and downtime.

High Efficiency

Lower energy consumption compared to surface pumps, with no priming or cavitation issues.

Cost Savings

Extended wear life, reduced spare parts usage, and lower overall operating costs.

Versatility

Handles sand, gravel, coal, tailings, drilling mud, bentonite slurry, and other challenging mixtures.

Safety & Convenience

Quiet operation (submerged), minimal vibration, and easy installation in confined or deep spaces.

Reliability

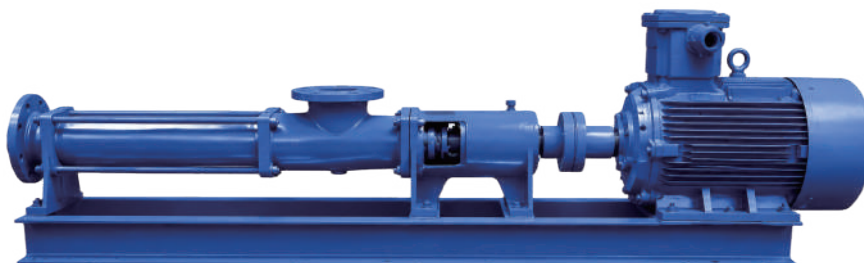
Designed for continuous duty in the harshest environments — mining, geothermal, CBM, dredging, and industrial sumps.

SUBMERSIBLE SLURRY PUMP SPECIFICATIONS

Model	Capacity m ³ /h	Lift	Motor	Speed	Outlet	EX Standard	Weight	Overall Dimensions
HYBZY230-040	30m ³ /h	10m	4kW	1450RPM (50HZ) / 1750RPM (60HZ)	DN50	ExdIIIBt4/IECE X/A-TEX	370kg	2620x500x720mm
HYBZY240-055	40m ³ /h	10m	5.5kW		DN50		600kg	2700x500x700mm
HYBZY260-075	60m ³ /h	18m	7.5kW		DN80		610kg	2650x500x700mm
HYBZY280-110	80m ³ /h	20m	11kW		DN80		715kg	2750x580x730mm
HYBZY2110-185	110m ³ /h	24m	18.5kW		DN100		840kg	2900x600x900mm
HYBZY2120-220	120m ³ /h	28m	22kW		DN100		880kg	2950x600x900mm
HYBZY2165-300	165m ³ /h	26m	30kW		DN100		1300kg	3100x750x900mm
HYBZY2240-370	240m ³ /h	24m	37kW		DN150		1420kg	3160x700x1130mm
HYBZY2270-450	270m ³ /h	30m	45kW		DN150		1510kg	3190x700x1130mm

SCREW PUMP

Reliable, Efficient & Versatile Screw Pump for Demanding Applications



When you need to move high-viscosity, abrasive, or solids-laden fluids reliably, our Screw Pump (Progressive Cavity Pump / Eccentric Screw Pump) delivers unmatched performance. Designed for continuous duty in tough industrial environments, it excels in oil & gas, drilling waste management, sludge treatment, wastewater, and chemical processing.

FEATURES:

PROGRESSIVE CAVITY DESIGN

Smooth, pulsation-free flow with excellent self-priming

capability.High Viscosity Handling

Efficiently pumps fluids up to 1,000,000 cP (centipoise).

Solids Handling:

Capable of transferring fluids with up to 40-60% solids content (depending on model).

Low Shear & Gentle Pumping

Protects shear-sensitive products and emulsions.

Robust Construction

Available in cast iron, stainless steel, duplex steel, and other corrosion-resistant materials with hardened rotors and high-quality stators (NBR, EPDM, Viton, etc.).

Wide Capacity Range

Flow rates from 10 m³/h to 100 m³/h and pressures up to 0.3 MPa (single stage) or higher in multi-stage designs.

Compact & Modular

Horizontal, vertical, and hopper-fed configurations with various sealing options (mechanical seals, packing).

Easy Maintenance

Quick rotor/stator replacement design minimizes downtime.

BENEFITS:

Outstanding Reliability

Long service life even with abrasive and corrosive fluids.

Energy Efficient

Lower power consumption compared to many centrifugal pumps when handling viscous fluids.

Consistent Flow

Accurate metering and stable pressure regardless of viscosity changes.

Reduced Maintenance Costs

Fewer wear parts and simple servicing.

Versatile Operation

Dry-running protection options and variable speed drives for precise control.

Cost Savings

Lower total cost of ownership through durability and high efficiency in heavy-duty applications.

SCREW PUMP SPECIFICATIONS

Model	Capacity m ³ /h	Lift	Motor	Speed	Inlet	Outlet	EX Standard	Weight	Overall Dimensions
HYBZG10-040	10m ³ /h	0.3MPa	4kW	244RPM	DN80	DN80	ExdIIbT4/IECEX/A-TEX	245kg	2245x320x550mm
HYBZG20-055	20m ³ /h		5.5kW	210RPM	DN80	DN80		320kg	2450x340x562mm
HYBZG30-075	30m ³ /h		7.5kW	258RPM	DN100	DN100		385kg	2761x370x600mm
HYBZG40-110	40m ³ /h		11kW	252RPM	DN100	DN100		450kg	3270x370x665mm
HYBZG50-110	50m ³ /h		11kW	273RPM	DN125	DN125		608kg	3790x400x782mm
HYBZG60-150	60m ³ /h		15kW	225RPM	DN125	DN125		649kg	3320x550x740mm
HYBZG70-220	70m ³ /h		22kW	230RPM	DN150	DN150		875kg	3740x420x785mm
HYBZG80-220	80m ³ /h		22kW	283RPM	DN150	DN150		875kg	3740x420x785mm
HYBZG100-300	100m ³ /h		22kW	205RPM	DN150	DN150		875kg	3740x420x785mm

MUD GAS SEPARATOR

Ensure Safety & Control with a Reliable Mud Gas Separator



In drilling operations, dangerous formation gas can become entrained in the drilling mud, creating serious well control risks, fire hazards, and potential blowouts. Our Mud Gas Separator (also known as Poor Boy Degasser or Gas Buster) is a critical safety device that efficiently removes free gas from the mud stream before it reaches the shale shakers and mud pits.

Engineered for both onshore and offshore drilling, our Mud Gas Separator delivers robust performance under high-pressure gas kicks and high-flow conditions.



FEATURES:

Large Separation Chamber

Vertical or horizontal design with high-efficiency internal baffles for maximum gas breakout.

High Processing Capacity

Handles mud flow rates up to 200–360 m³/h and large gas volumes.

Pressure Relief & Safety System

Equipped with pressure relief valves, sight glasses, and level control for safe operation.

Heavy-duty Construction

Skid-mounted with corrosion-resistant materials, including carbon steel with internal coating or stainless steel options.

Flare Boom & Vent Line Connection

Safe routing of separated gas to flare or vent stack.

Optional Features

Digital gas detection sensors, automatic level control, and explosion-proof instrumentation.

Compact & Mobile Design

Easy rig integration and transportation between locations.

BENEFITS:

Enhanced Well Control Safety

Rapidly separates hazardous gas, significantly reducing the risk of gas entering the active mud system.

Prevents Equipment Damage

Protects shale shakers, mud pumps, and downstream equipment from gas cutting and cavitation.

Operational Efficiency

Maintains stable mud properties and weight, allowing faster and safer drilling.

Regulatory Compliance

Helps meet strict well control and safety standards required by drilling operators and authorities.

Durable & Low Maintenance

Robust build quality ensures long service life even in harsh drilling environments.

MUD GAS SEPARATOR SPECIFICATIONS

Model	HYBZYQ800	HYBZYQ1000	HYBZYQ1200
Capacity	200–260m ³ /h	240–300m ³ /h	280–360m ³ /h
Tank Diameter	800mm	1000mm	1200mm
Inlet	5inch		
Outlet	10inch		
Ventline	8inch	8inch	10inch
Weight	1650kg	2135kg	2750kg
Overall Dimensions	1900×1900×5700mm	2000×2000×5860mm	2200×2200×6634mm

FLARE IGNITION DEVICE

Safe & Efficient Gas Flaring with Advanced Flare Ignition Device

In drilling operations, safely disposing of separated gas from the Mud Gas Separator is critical for well control and crew safety. Our Flare Ignition Device (Flare Igniter) provides a dependable, high-energy ignition source to instantly and safely burn off flammable gases, preventing dangerous gas buildup around the rig site.

Designed for continuous operation in harsh drilling environments, our Flare Ignition Device ensures reliable ignition even in high winds, rain, and extreme temperatures.



FEATURES:

High-energy Ignition System

Electronic spark or pilot flame technology with reliable auto-ignition.

Remote & Automatic Operation

Can be operated from the driller's cabin or set to automatic mode when gas is detected.

Windproof & Weatherproof Design

Protected against harsh offshore and onshore conditions.

Continuous Pilot Burner Option

Maintains a constant small flame for instant main gas ignition.

Stainless Steel Construction

Corrosion-resistant materials for long service life.

Easy Integration

Compatible with Mud Gas Separators, flare booms, and vent lines.

Manual Backup

Handheld or local ignition capability as redundancy.

BENEFITS:

Maximum Safety

Eliminates the risk of unburned gas accumulation, reducing explosion and fire hazards.

Reliable Performance

Ensures immediate ignition during gas kicks or continuous venting.

Regulatory Compliance

Meets international safety standards and well control requirements.

Reduced Environmental Impact

Efficient combustion minimizes harmful gas release.

Low Maintenance

Robust design with long intervals between servicing.

Operational Confidence

Crews can focus on drilling knowing the flare system is fully operational.

FLARE IGNITION DEVICE TECHNICAL SPECIFICATIONS

Model	HYBZYD-200	HYBZYD-200T
Main Body Diameter	DN200	
Charging Power	220V	
Ignition Media	LPG/LNG	
Ignition Voltage	16KV	
Ignition Method	Alternating Current	Alternating Current and Solar Energy
Weight	520kg	590kg
Overall Dimensions	1250x650x3200mm	

SHAKER SCREENS

Premium Solids Separation Technology for Maximum Performance
Optimize Your Solids Control with High-Performance Shaker Screens

Shaker screens are the heart of any effective solids control system. They are the first line of defense in separating drilled solids from drilling fluid, directly impacting mud quality, drilling efficiency, screen life, and overall project costs.

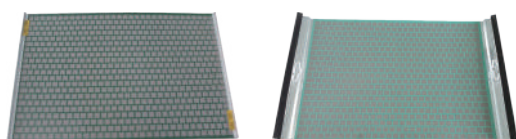
Composite Frame Replacement Shaker Screen

for BZS752, BZS583, BZS684, BZS585, Mi-Swaco Mongoose, NOV Brandt Cobra, SMD3, D380.



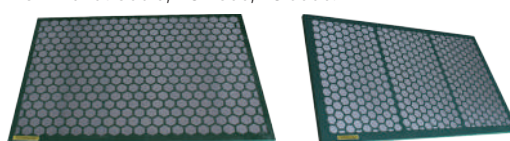
Flat Replacement Shaker Screen

for Derrick FLC500, FLC2000, FLC313M, ALS.



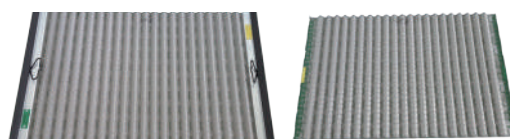
Steel Frame Replacement Shaker Screen

for BZS752, BZS583, BZSS84, BZS585, Mi-Swaco Mongoose, NOV Brandt Cobra, VSM300, FSI5000.



Corrugated Replacement Shaker Screen

for Derrick FLC500, FLC2000, D600, D-HYP.



FEATURES & BENEFITS

Premium Mesh Materials

Multi-layer stainless steel 304/316 wire mesh for exceptional durability, corrosion resistance, and cutting efficiency.

Fast & Secure Installation

Wedge or hook-strip designs for quick screen changes and minimal downtime.

Anti-blinding Technology

Reduces plugging and blinding for sustained high-flow performance.

Advanced Screen Designs

- Flat PWP screens for standard applications.
- Pyramid / 3D screens for up to 30-50% more effective screening area and higher fluid handling capacity.
- Composite frame screens for lightweight strength and reduced disposal weight.

API RP 13C Compliant

Precisely labeled with D100 cut points for consistent, reliable performance.

Extended Screen Life

Robust construction and superior bonding deliver longer runtime and lower replacement costs.

AVAILABLE SCREEN TYPES

MESH	DIMENSION	ADAPTATION
20-325	585×1165mm	Mongoose
20-325	622×655mm	SMD3
20-325	635×1250mm	KING COBRA
20-325	737×1067mm	FSI 5000
20-325	712×1180mm	D380

API Size Parameters			
API Number	D 100 Separation(Micron)	API Number	D 100 Separation(Micron)
API 20	>780.0 TO 925.0	API 100	>137.5 TO 165.0
API 30	>550.0 TO 655.0	API 120	>116.5 TO 137.5
API 35	>462.0 TO 550.0	API 140	>98.0 TO 116.5
API 40	>390.0 TO 462.0	API 170	>82.5 TO 98.0
API 50	>275.0 TO 390.0	API 200	>69.0 TO 82.5
API 60	>213.0 TO 275.0	API 230	>58.0 TO 69.0
API 70	>196.0 TO 213.0	API 270	>49.0 TO 58.0
API 80	>165.0 TO 196.0	API 325	>41.5 TO 49.0

Remark: Engineered for superior flow capacity, extended durability, and precision separation — our replacement and OEM screens are available for every major shale shaker brand.

MUD TANK

The Heart of Efficient Drilling Fluid Management

In modern drilling operations, the mud tank system serves as the central hub for storing, mixing, conditioning, and circulating drilling fluid. A well-designed system is essential for maintaining optimal mud properties, effective solids control, and uninterrupted drilling performance.

The Intelligent Mud Tank System combines robust engineering with intelligent features to deliver superior fluid handling, reduced downtime, and significant cost savings.



FEATURES:

Optimized Tank Design

Cone-bottom or V-bottom tanks with sloped floors for complete drainage and minimal sedimentation.

Powerful Agitation

High-efficiency mud agitators and mud guns ensure uniform mixing and keep weighting materials, such as barite, and solids suspended.

Intelligent Integration

Seamless connection with shale shakers, desanders, desilters, centrifuges, and degassers for a complete 4-or 5-stage solids control system.

Modular & Skid-mounted

Flexible configurations, from single tanks to full systems with 3–7 tanks, tailored to rig size and drilling depth.

Durable Construction

High-grade steel with excellent corrosion resistance, built for harsh onshore and offshore environments.

Safety & Environmental Focus

Explosion-proof electrical systems, overflow protection, and features that support lower waste volumes and better fluid recovery.

BENEFITS:

Superior Mud Quality

Consistent viscosity, density, and rheology through continuous agitation and solids removal.

Increased Efficiency

Better solids control leads to faster drilling rates and fewer problems, such as stuck pipe, lost circulation, and more.

Cost Reduction

Lower mud consumption, reduced dilution, fewer screen replacements, and extended life of pumps and downstream equipment.

Operational Flexibility

Easy to partition or combine compartments; quick setup on skid or trailer-mounted systems.

Environmental Compliance

Drier cuttings discharge and minimized waste volumes support greener operations.

Reliability

Proven performance in oil & gas, geothermal, HDD, and CBM drilling.

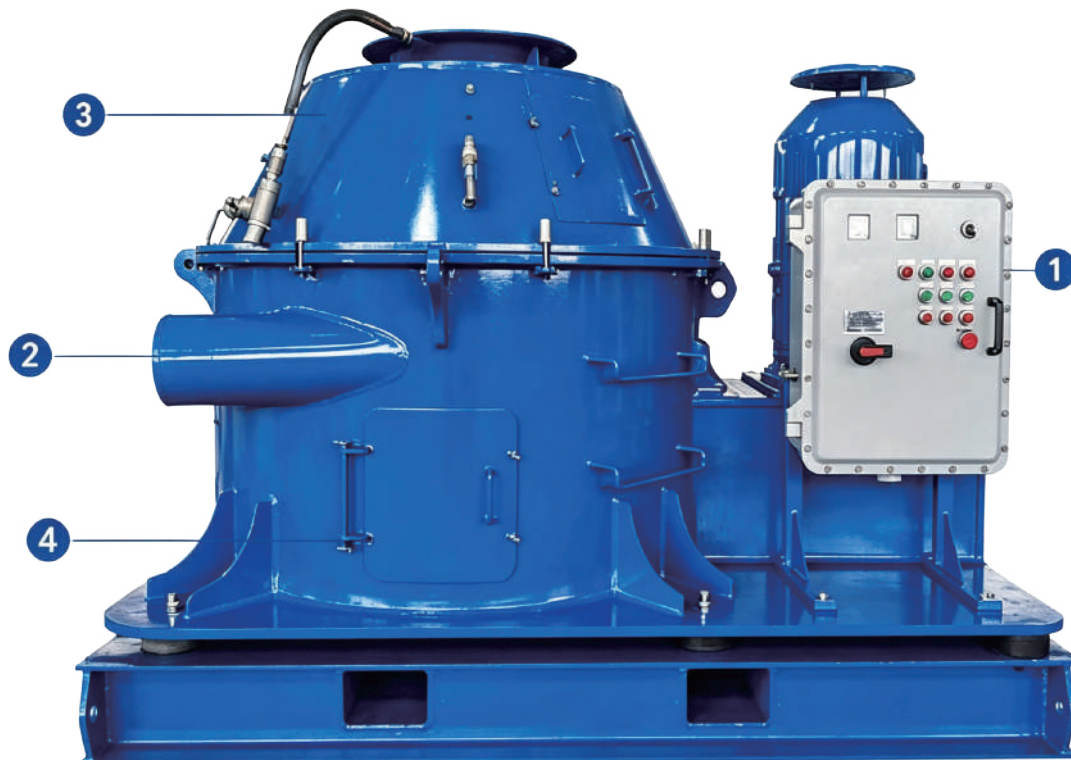


TYPICAL CONFIGURATIONS

Drilling Depth	No. of Tanks	Typical Total Volume	Purification Levels	Common Applications
1000-2000m	3-4	90-150m ³	3-4Level	Shallow to medium wells
3000-4000m	4-5	160-250m ³	4-5Level	Standard oil & gas
5000m+	5-7	300-500m ³	5 Level	Deep & ultra-deep wells
Remark: Custom volumes, compartment layouts (active, reserve, sand trap, slug/pill tanks, etc.), and equipment integration capability.				

VERTICAL CUTTING DRYER

Advanced Drilling Waste Management Solution



In modern drilling operations, managing drill cuttings efficiently is essential for cost control, environmental compliance, and operational performance. The Vertical Cutting Dryer (also known as Cuttings Dryer or VCD) uses high-speed centrifugal force to effectively separate drilling fluids from cuttings, significantly reducing oil-on-cuttings (OOC) content and recovering valuable drilling mud.

1/

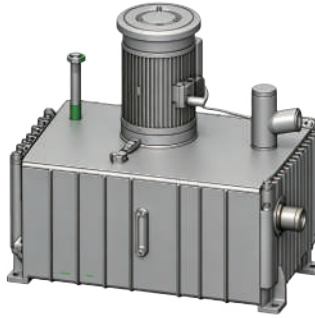
LUBRICATION OIL STATION

Mainly used to lubricate the rotating components inside the drive unit and dissipate heat generated during operation through oil circulation.

Due to the open oil supply system, oil pressure may decrease as oil temperature rises, which is a normal operating condition.

Lubricating Oil Grade

- N220 Extreme Pressure Gear Oil (Winter)
- N320 Extreme Pressure Gear Oil (Summer)



2/

SCREEN BASKET ASSEMBLY

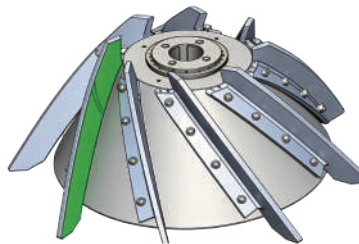
Mainly used to remove large particles attached to the screen basket, preventing slot blockage and ensuring continuous operation.

Material Inlet:

Allows the slurry to enter the screen basket.

Flush Pipe:

Flushes the liquid ring and material inlet.



3/

TOP COVER ASSEMBLY

Equipped with an air knife system for effective screen basket flushing and improved separation efficiency.



Material Inlet

Allows the slurry to enter.

Flush Pipe

Flushes the liquid ring and material inlet.

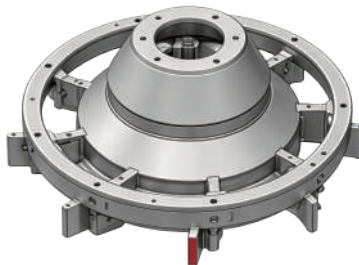
Air Inlet

Air knife for screen basket flushing.

4/

BELL HOUSING & SCRAPER ASSEMBLY

Mainly used to prevent oversized particles from passing through the screen basket and remove accumulated solids from the screen surface.



Bell Housing Material

Cast Steel
(Main Structure)

Scraper Material

High Chrome
Alloy (Wear Parts)

SCREEN BASKET (SS304 STAINLESS STEEL)

Mainly used to prevent oversized particles from passing through the screen basket.

The slot size selection is closely related to the material characteristics.



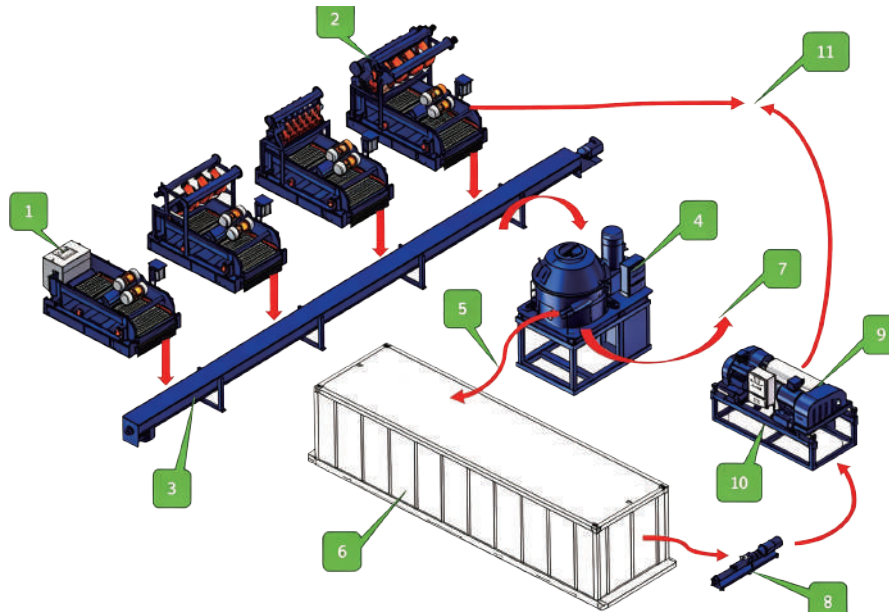
Slot Size:

0.2 – 0.5 mm

Material:

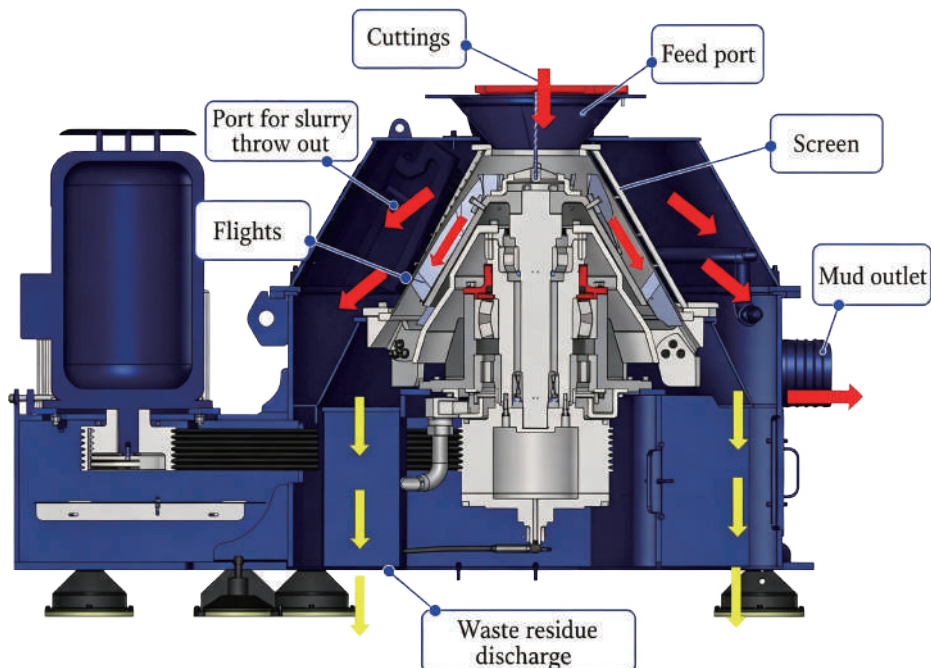
SS304 Stainless Steel

VERTICAL CUTTING DRYER WORKING FLOW



Mud from the drilling rig enters the shale shaker (1) and the mud cleaner (2) through the overhead manifold, the cuttings discharged after treatment in (1) and (2) are conveyed to the vertical cutting dryer (4) through the screw conveyor (3) for treatment. The solids from the treatment by the vertical cutting dryer are discharged through (7), and the recovered drilling mud (5) enters into the drilling fluid mud tank (6). The liquid feed pump or screw pump (8) extracts the recovered mud which containing fine solid particles and supplies it to the centrifuge (9) for treatment. The solid part is discharged through the solid slag discharge port (10), and the treated drilling fluid returns to the mud system (11). Ideal for Oil-Based Mud (OBM), Synthetic-Based Mud (SBM), and even advanced applications with Water-Based Mud (WBM), this equipment delivers drier cuttings and higher fluid recovery rates.

MAXIMIZE FLUID RECOVERY AND MINIMIZE WASTE



FEATURES:

High G-force Performance

Up to 420G, adjustable with VFD models, for superior separation efficiency.

Low Oil-on-cuttings

Reduces OOC to 3-5%, or lower in optimal conditions, for OBM and SBM cuttings.

High Processing Capacity

30-60 tons per hour, suitable for high-volume drilling operations.

Robust Construction

Hard-faced flights (HRC 65), stainless steel screens, and premium bearings for extended service life in abrasive conditions.

Advanced Design

Air knife for screen cleaning, flushing system, individual rotor balancing, and optional VFD for speed optimization.

Versatile Applications

Excellent performance on OBM, SBM, and increasingly effective on WBM.

BENEFITS:

Cost Savings

Recover more mud, requiring less new fluid and lowering dilution costs.

Environmental Compliance

Drier cuttings help meet onshore and offshore discharge limits.

Operational Efficiency

Works seamlessly with shale shakers, decanter centrifuges, and complete waste management systems.

Reliability

Proven in harsh drilling environments worldwide, including land rigs, offshore platforms, and international projects.

Ease Of Maintenance

Quick screen changes, durable components, and smart monitoring features.

VERTICAL CUTTING DRYER SPECIFICATIONS

MODEL	HYBZGZ900	HYBZGZ900-BP
Capacity	30-50t/h	
Drying Capacity	OOC≤5%	
Screen Basket Diameter	930mm	
Screen Opening	0.25~0.5mm	
Rotation Speed	900RPM	0-900RPM
Max G Force	420G	0-420G
Main Motor Power	55kW	
Oil Pump Power	0.55kW	
Flushing Pump Power	3kW	
EX Standard	ExdII Bt4/IECEx/A-TEX	
Electric Cabinet	Exd	Positive Pressurized
Weight	6000kg	
Overall Dimensions	2645x1800x1880mm	

HIGH-G DRYING SHAKER

Maximum Fluid Recovery & Drier Cuttings for Waste Management



With adjustable G-forces up to 8.0G, it effectively separates and recovers drilling fluids from cuttings, resulting in significantly drier solids and lower disposal costs.

In modern drilling operations, reducing waste volume, recovering valuable drilling fluids, and meeting strict environmental regulations are essential. The High-G Drying Shaker is specifically engineered to dry drilling cuttings discharged from primary shale shakers, delivering superior performance in waste treatment systems.

FEATURES:

High G-force Performance

Up to 8.0G, adjustable, for exceptional liquid/solids separation and drier cuttings discharge.

Linear Motion Design

Ensures smooth, efficient cuttings conveyance even with high viscosity or sticky materials.

Large Screen Area

4 or 5-panel pretensioned screens for high processing capacity.

Explosion-proof Motors

IECEx / ATEX certified for safe operation in hazardous areas.

Adjustable Deck Angle

Mechanical adjustment while operating to optimize performance under varying conditions.

Robust Construction

Heat-treated shaker deck to withstand high G-force, stainless steel bottom deck for corrosion resistance, and patented rubber sealing for longer screen life.

Low Profile Feeder Option

Facilitates easy transfer of cuttings from upstream equipment.

BENEFITS:

Higher Fluid Recovery

Significantly reduces the liquid content on discharged cuttings.

Cost Reduction

Lower mud replacement costs, reduced transportation and disposal volumes.

Environmental Compliance

Drier cuttings help meet stricter discharge regulations.

Reliability

Proven heavy-duty design for continuous operation in harsh drilling conditions.

Easy Maintenance

Fast screen replacement and accessible components.



Flexible feeding type including top feed and back feed for different site feeding.



Famous brand motor, high G force and free switching between linear and elliptic motion, better screening effect.



5 pieces of screen mesh, large screening area, large handling capacity, universal screen, interchangeable.



Heat treatment on complete shale shaker deck for high G force operation, and surface flat, can paste advertising logo.



Wedge-type screen for fast screen pressing device for fast screen replacement.



Shale shaker deck buckle, easy to disassemble, protect the shale shaker in transportation.



Flameproof control box, imported components: Schneider, Siemens, etc.



Mechanical deck angle adjuster, don't need shutdown, can be lifted and lowered freely.



G force variable frequency regulation system and deck hydraulic lifting manual/automatic control system.



The deck angle is automatically adjustable, deck angle information displayed here.



Deck hydraulic automatic lifting device.



Deck weight displayed here, including material proportion and material flow.

HIGH-G DRYING SHAKER SPECIFICATIONS

Model	GHYBZS584	GHYBZS585/GHYBZS585S
Vibration mode	Linear Motion/Double Track	
Capacity	140m³/h	165m³/h
Motor	2×2.2kW/2×2.2+1×1.3kW	
Screen Qty(pcs)	4	5
Screen Size	585×1165mm	585×1165mm
Adjustable G Force	≥8.0G	
Vibration Amplitude	5.0~6.5mm	
Deck Angle Range	-1°~5°	-1°~4°
Noise	<85db	
EX Standard	ExdIIbT4/ECEx/A-TEX	
Weight	1530kg	1950kg
Overall Dimensions	3004×1978×1415mm	3597×1978×1415mm
Remark	Above capacity amount is just for reference, will be different depending on mesh number and mud conditions.	

VACUUM SOLIDS CONVEY PUMP

Turn Tough Solid & Slurry Conveying Problems into Efficient Operation



Vacuum solids convey pump is a kind of high load strong suction conveyor, also known as negative pressure solid conveyor or vacuum slurry pump.

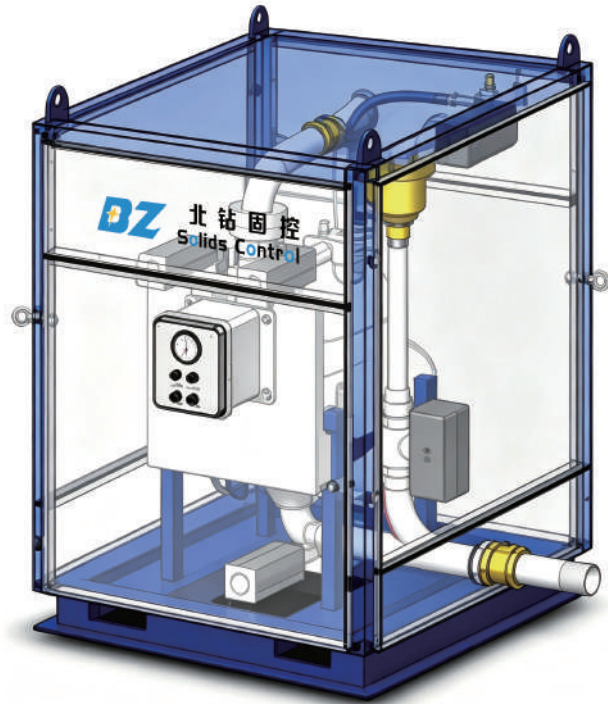
Equipped with efficient venturi device under the action of strong turbulence which can produce high vacuum suction.

It can transport efficiently pure solid materials(sand, gravel, etc.) and other high density, high viscosity materials. Unique design allows it to work in most tough environment, with low maintenance rate.

No wear and tear parts, low maintenance cost. Compact structure, easy to transport and install.

STRUCTURE

Complete appliance adopts vertical structure and occupies less area. It is mainly composed of body base assembly, hanger assembly, air suction pipe assembly, suction pipe assembly, drainage pipe assembly, jet pipe assembly, intake pipe assembly, pressure pipe assembly, pneumatic control box assembly (pneumatic control module import brand).



FEATURES:

Powerful Vacuum Suction

25" Hg vacuum degree, sucks 50mm+/75mm+ solid slurry from 50m away and conveys up to 1000m long distance stably.

Wide Material Adaptability

Freely conveys liquid, solid-liquid mix, powder and full solid materials.

Full Pneumatic Drive

100% air-operated, safe for IECEx explosion-proof hazardous areas.

Strict Standard Conformity

Complies with EU explosion-proof, mechanical and pressure vessel directives.

Wear-resistant Structure

Zero wearing parts, greatly reduce maintenance and replacement costs.

Compact Integrated Design

Easy transportation and quick on-site installation.

BENEFITS:

Super Strong Conveying Capacity

Ultra-high vacuum suction realizes long-distance suction and delivery, adapts to large-particle solid materials and high-viscosity slurry.

Full Material Compatibility

Supports 100% pure solids, liquid-solid mixture, powder and various special materials with wide adaptability.

High Safety Performance

Full pneumatic drive, explosion-proof compliant, suitable for hazardous explosion-proof working zones.

Ultra-low Operation Cost

No wearing parts, greatly reduces later maintenance and replacement costs.

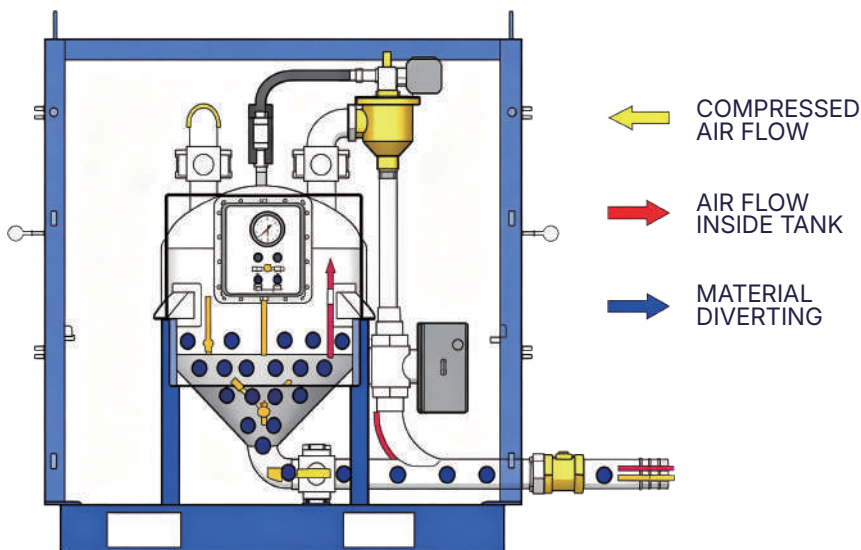
Flexible & Convenient Deployment

Compact overall structure, easy transportation and rapid on-site installation.

WORKING PROCESS (MATERIAL INHALED)

1、 Yellow arrow is compressed air flow direction; Red arrow is air flow direction inner tank; Blue arrow is material entering direction.

2、 Air enters into the distribution pocket via inlet, vacuum produced in the air distribution pocket. (when restricted flow passes the contractible cross section, flow speed will increase. Flow speed is inversely proportional to the cross section, the increasing of speed will go with reducing of fluid pressure. Low pressure will be produced near high speed fluids, then produce suction action).



3、 When low pressure produced at the air pocket, the air in the tank flows towards the air pocket and gets out together with compressed air, and then vacuum produced in the tank.

4、 When pressure inner tank is lower than ambient pressure, material will get into the tank under atmospheric pressure. (6-8 meters for water suction height, delivery distance is different due to material density and viscosity).

VACUUM SOLIDS CONVEY PUMP OPERATING MODE

Our vacuum solids convey pump is alternately suction and discharge. The operation mode of BZVP-20 is automatic mode, and BZVP-40 can switch freely between manual and automatic modes.

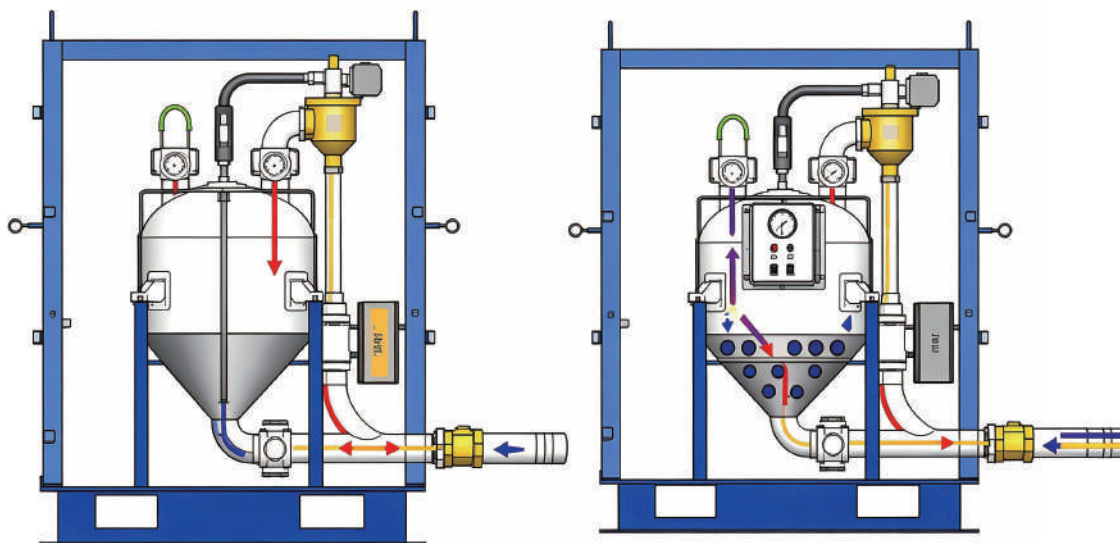
AUTOMATIC (BZVP-20/BZVP-40)

- 1 Before operation, check whether the pipeline is arranged properly and whether the tank is in an empty state.
- 2 Different materials need to set the suction and discharge time through an automatic timer, The norm is 10 seconds, and the adjustable range of the timer is 0-30 seconds.
- 3 Open the air supply valve under the condition that the tank body is emptied and select the automatic mode
- 4 Put the suction port into the material, the pump starts to suck the material, and the sound can be used to judge whether the tank is full of material.
- 5 After the material transportation is completed, before closing the negative pressure solid transportation pump, the pump should be operated several times without suction to empty the tank material.

AUTOMATIC (BZVP-20/BZVP-40)

- 1 Before operation, check whether the pipeline is arranged properly and whether the tank is under control.
- 2 Open the air supply valve, select the manual mode, turn the handle valve to the "discharge" state, and empty the tank material.
- 3 Put the suction port into the material, turn the handle valve to the "suction" state, and judge the feed volume of the tank.
- 4 After the tank is full of materials, turn the handle valve to the "discharge" state to start discharging materials, and repeat the above operations after the materials are emptied.
- 5 After the material is conveyed and the tank is empty, close the handle valve.

WORKING PROCESS(MATERIAL DISCHARGE)



After suction process, compressed air flow direction changes and gets into the material storage tank, as above picture showing. Pressure inside tank will be higher and higher, finally the material is discharged out under high pressure and flows to distance with compressed air. (Max. horizontal distance 500-1000 meters, delivery distance is different due to material density and viscosity)

VACUUM SOLIDS CONVEY PUMP SPECIFICATIONS

Model	HYBZVP-40	HYBZVP-20
Max Capacity	40m³/h	20m³/h
Inlet/Outlet Size	4 "(114mm)	3 "(89mm)
Vacuum Degree	0.085MPa/0.87kgf/cm²	
Max Suction Distance	50m	
Max Discharge Distance	1000m	500m
Max Solids Content	100%	
Max Solids Size	75mm	50mm
Pressure Request	0.55MPa-0.78MPa(5.6-8.0kgf/cm²)	0.55MPa-0.69MPa(5.6-7.0kgf/cm²)
Air Demand	17m³/min	8m³/min
Overall Dimensions	1578×1440×2030mm	1200×800×1470mm
Weight	1200kg	480kg

SCREW CONVEYOR

Stable & Flexible Material Conveying Solution for Drilling & Industrial Operations



Screw conveyor is usually used to transfer drilling cuttings to feed to vertical cuttings dryer and cuttings collection box. Also, it can transfer other small particle materials with low cost and reliable operation.

It supports reversible transport direction and can simultaneously transport materials in opposite directions. Besides, the screw conveyor can be matched with other transportation equipment to complete combined or independent operations including material mixing, blending, dehydration, compounding, unloading and stacking.

The length and diameter of HY screw conveyor can be fully customized to adapt to diverse working conditions and application demands.

BENEFITS:

Flexible Operational Adaptability

Supports unidirectional, reversible and bidirectional synchronous transportation, compatible with multiple combined process operations.

High Standard Operation Safety

Fully sealed structure prevents material leakage and pollution, ensuring on-site clean and safe production.

High Operational Efficiency

Stable transmission performance and large handling capacity improve overall production efficiency for drilling and industrial lines.

Low Operating & Maintenance Cost

Durable wear-resistant structure and replaceable modular parts minimize downtime and maintenance expenses.

Strong Scene Adaptability

Reinforced frame and customizable size fit diverse installation environments and different material conveying demands.

FEATURES:

Customizable Specification

Adjustable screw length and diameter design, flexible configuration and large material handling capacity to meet different project requirements.

Wear-resistant Screw Design

Adopts high-quality wear-resistant screw materials, effectively extending equipment service life and reducing replacement frequency.

Leak-proof & Anti-Pollution

Comes with protective cover to avoid material leakage and external contamination, ensuring clean operation.

Superior Overall Performance

Compact structure, lightweight body, excellent sealing performance and high transmission efficiency; easy to install, uninstall and move with safe and stable operation.

Wide Material Adaptability

Suitable for conveying powder, granular and small piece materials, including clay powder, coal powder, cement, sand, grain, coal cinder, pebbles and cast iron.

Modular Sectional Structure

Equipped with 12-foot sectional design for easy disassembly and convenient part replacement.

Reinforced Frame Structure

Optimized frame design enhances overall rigidity, adapting to various complex installation scenarios.

Bidirectional Conveying Support

Realizes reversible transportation and simultaneous opposite-direction material conveying with flexible operation mode.

SCREW CONVEYOR SPECIFICATIONS

Model	Screw Diameter	Screw Length	Capacity	Speed	Motor Power
HYBZLS200-073	200mm	7.3m	15t/h	50-60RPM	4kW
HYBZLS200-110	200mm	11m	15t/h	50-60RPM	5.5kW
HYBZLS200-146	200mm	14.6m	15t/h	50-60RPM	7.5kW
HYBZLS250-073	250mm	7.3m	20t/h	50-60RPM	5.5kW
HYBZLS250-110	250mm	11m	20t/h	50-60RPM	7.5kW
HYBZLS250-146	250mm	14.6m	20t/h	50-60RPM	11kW
HYBZLS300-073	300mm	7.3m	30t/h	50-60RPM	5.5kW
HYBZLS300-110	300mm	11m	30t/h	50-60RPM	7.5kW
HYBZLS300-146	300mm	14.6m	30t/h	50-60RPM	11kW
HYBZLS350-073	350mm	7.3m	40t/h	50-60RPM	7.5kW
HYBZLS350-110	350mm	11m	40t/h	50-60RPM	11kW
HYBZLS350-146	350mm	14.6m	40t/h	50-60RPM	15kW
HYBZLS400-073	400mm	7.3m	50t/h	50-60RPM	11kW
HYBZLS400-110	400mm	11m	50t/h	50-60RPM	15kW
HYBZLS400-146	400mm	14.6m	50t/h	50-60RPM	18.5kW
HYBZLS450-073	450mm	7.3m	60t/h	50-60RPM	11kW
HYBZLS450-110	450mm	11m	60t/h	50-60RPM	15kW
HYBZLS450-146	450mm	14.6m	60t/h	50-60RPM	22kW

CHEMICAL DOSING EQUIPMENT

Precise & Stable Chemical Dosing Solution for Sludge & Wastewater Treatment



Chemical dosing equipment is mainly used for mixing of flocculation, coagulation or de-emulsifier. It works together with dewatering centrifuge to separate the ultra-fine solids from the mud or waste water, to get clean water for industry applications; or support the separation of waste sludge. It realizes automated and precise chemical feeding to assist solid-liquid separation, improving overall wastewater and sludge treatment efficiency.

FEATURES:

Full Automatic Protection System

Safeguards whole unit stable running and eliminates potential operation risks.

Compact Integrated Structure

Occupies less floor space and adapts to narrow installation sites easily.

High-grade Matching Components

Adopts premium accessories to prolong overall equipment service cycle.

Automatic Continuous Dosing Technology

Ensures accurate, timely and steady reagent feeding volume all the time.

Intelligent Control System

Realizes unattended continuous and stable long-term equipment operation.

BENEFITS:

High Treatment Efficiency

Accurate automatic dosing optimizes flocculation, coagulation and demulsification effects, greatly improving solid-liquid separation quality.

Stable & Safe Operation

Complete protection mechanism and mature control system avoid equipment failure and ensure 24-hour continuous operation.

Cost Saving

Durable accessories and stable performance lower maintenance cost and reduce chemical waste.

Space & Labor Saving

Compact structure occupies less site space; full-automatic operation minimizes manual intervention.

Excellent Compatibility

Perfectly cooperates with sludge dewatering centrifuges to support sludge reduction and industrial water reuse.

CHEMICAL DOSING EQUIPMENT SPECIFICATIONS

Model	Capacity	Hopper Volume	Mud Agitator	Tank Material	Overall Dimensions	Weight
HYBZJY-1500	1500L/H	55L	0.75kW×3	SS304 Stainless Steel	2300×1100×2000mm	450kg
HYBZJY-2000	2000L/H	110L	0.75kW×3		2650×1250×2250mm	510kg
HYBZJY-2500	2500L/H	110L	0.75kW×3		3000×1250×2250mm	670kg



Our chemical dosing equipment is perfectly matched with centrifugal dewatering systems, widely applicable for oily sludge treatment, wastewater purification, ultra-fine solid separation and industrial water recycling scenarios.

OIL GAS DRILLING SOLIDS CONTROL SYSTEM

Professional Integrated Drilling Fluid & Solids Control Solution



HY Solids Control is a professional oil & gas drilling solids control system manufacturer, covering a full range of supporting equipment including mud gas separator, shale shaker, vacuum degasser, desander, desilter, mud cleaner, decanter centrifuge, series pumps, mud agitator, mud gun and mud tank. The complete solids control system is mainly applied to oil drilling rigs, workover rigs and gas drilling rigs, covering ZJ15-ZJ90 drilling mud solids control systems and XJ250-XJ750 workover vehicular mud recycling systems, providing integrated drilling fluid purification and mud recycling solutions for oilfield operations.

FEATURES:

Full-series Supporting Equipment

Complete solids control equipment portfolio realizes one-stop drilling fluid purification treatment.

Wide Rig Model Coverage

Compatible with ZJ15 to ZJ90 drilling rigs and XJ250 to XJ750 workover rigs for diverse project demands.

Customized System Design

Flexible tank volume and tank quantity configuration tailored to on-site drilling conditions.

Systematic Mud Recycling

Standardized graded purification process ensures effective solids removal and drilling fluid reuse.

Mature Integrated Design

Reasonable structural layout, stable system operation and strong on-site adaptability.

BENEFITS:

Complete Purification Performance

Multi-stage graded solids removal effectively removes large and fine impurities from drilling mud, ensuring stable drilling fluid performance.

High Mud Recycling Rate

Optimized system configuration reduces drilling fluid waste and lowers overall drilling material cost.

Wide Application Flexibility

Covers full-scale drilling and workover rig models, adaptable for onshore conventional drilling and workover operations.

Customized Matching Solution

Flexible tank capacity and quantity design fits different well depth and construction requirements.

Stable & Reliable Operation

Integrated matched equipment ensures coordinated system operation, reducing on-site failure rate and downtime.

OIL GAS DRILLING SOLIDS CONTROL SYSTEM SPECIFICATIONS

Rig class	Capacity(m ³)	Tank Qty(pcs)
ZJ15 Drill rig solids control system	≥60m ³	2-3
ZJ20 Drill rig solids control system	≥160m ³	2-3
ZJ30 Drill rig solids control system	≥160m ³	3-4
ZJ40 Drill rig solids control system	≥200m ³	4-5
ZJ50 Drill rig solids control system	≥280m ³	5-6
ZJ70 Drill rig solids control system	≥380m ³	6-8
ZJ90 Drill rig solids control system	≥500m ³	8-20
Remark:Provide ideal equipment layout for fine-separation systems based on customer's performance requirements and spatial constraints.		

ADVANCED DRILLING WASTE MANAGEMENT SYSTEM

Revolutionize Your Drilling Operations with Sustainable Waste Management



In the high-stakes world of oil and gas drilling, drilling waste — including drill cuttings, spent muds, and associated fluids — poses significant environmental, regulatory, and cost challenges. Our Drilling Waste Management System delivers an integrated, efficient solution that minimizes waste volume, maximizes resource recovery, ensures regulatory compliance, and reduces operational costs.

FEATURES:

Vertical Cuttings Dryers & High-G Dryers

Rapidly reduce oil-on-cuttings (OOC) content to as low as 2-5% for oil-based mud (OBM), enabling safer disposal or reuse.

Decanter Centrifuges & Dewatering Units

High-speed separation of solids from liquids for maximum fluid recovery and recycling.

Thermal Desorption & Zero Liquid Discharge (ZLD) Options

Heat-based contaminant removal and advanced evaporation/crystallization for near-zero discharge.

Cuttings Re-Injection (CRI)

Environmentally secure subsurface disposal with minimal surface impact.

Integrated Solids Control & slurry processing

Modular, skid-mounted systems including conveyors, pumps, and chemical treatment for seamless on-site operation.

Real-time Monitoring & Automation

Digital analytics for optimized performance, reduced human error, and full traceability.

BENEFITS:

Cost Savings

Recover and reuse drilling fluids, reduce disposal volumes by up to 90%+, and lower transportation/hauling expenses.

Environmental Compliance

Meet or exceed strict regulations with reduced environmental footprint, lower risk of spills, and support for circular economy practices, such as converting treated waste into construction materials.

Operational Efficiency

Minimize Non-Productive Time (NPT), maintain optimal mud properties, and enable faster drilling.

Sustainability

Resource recovery, including oil, water and solids, waste minimization at source, and options for beneficial reuse.

Safety & Reliability

Reduced liability, lower safety risks, and proven performance in challenging environments.

VERTICAL CUTTINGS DRYER TECHNICAL SPECIFICATIONS

Model	HYBZLW355x1250-BP
Tumbler Diameter	360mm
Tumbler Length	1271mm
Max Capacity	200GPM(45m ³ /h)
Max Rotation Speed	3900RPM
Normal Rotation Speed	0~3200RPM
Separation Coefficient	3063
Particle Size	2-5μm
Differential speed (RPM/min)	0~40
Differential torque (N. M)	3500N. M
Differential speed ratio	57:1
Main Motor Power	37kW(50HP)
Helper Motor Power	11kW(15HP)
EX Standard	ExdIIBt4/IECEX/A-TEX
Explosion-proof Cabinet Type	Variable Frequency
Weight	3300kg
Overall Dimensions	3305x1638x1277mm

HIGH SPEED CENTRIFUGE TECHNICAL SPECIFICATIONS

Model	HYBZCD930
Capacity	30 ~ 50Ton/h
Drying Capacity	OOO ≤ 5%
Max Screen Basket Diameter	930mm
Screen Opening	0.2 ~ 0.5mm
Rotation Speed	900RPM
Separation Coefficient	420G
Lubricating Oil Tank Capacity	48L
Air Knife Inlet Pressure	0.41Mpa
Air Knife Supply	4.8m ³ /min
Washer Pump QTY	1 pc
Main Motor Power	55kW(75HP)
Oil Pump Power	0.55kW(0.75HP)
EX Standard	ExdIIBt4/IECEX/A-TEX
Explosion-proof Cabinet Type	Standard Explosion-proof Cabinet
Weight	4200kg
Overall Dimensions	2680x1750x1650mm

OIL SLUDGE TREATMENT SYSTEM

Turn Hazardous Oil Sludge into Valuable Resources



Oil sludge — from refinery tank bottoms, storage tanks, drilling operations, and industrial wastewater — is a major environmental and operational challenge. High disposal costs, strict regulations, and contamination risks make traditional methods unsustainable. Our Oil Sludge Treatment System offers an efficient, eco-friendly solution that maximizes oil recovery, minimizes waste volume, and supports zero discharge goals.

FEATURES:

Three-phase Separation(Tricanter Centrifuges)

High-efficiency separation of oil, water, and solids with up to 90% oil recovery.

Hot Washing & Chemical Demulsification

Breaks stable emulsions for better phase separation.

Thermal Desorption / Pyrolysis Units

Low-temperature or high-temperature processing for maximum contaminant removal and oil extraction (oil purity >90%).

Decanter Centrifuges & Dewatering Systems

Reduces sludge volume dramatically while producing dry solids suitable for disposal or reuse.

Solids Vacuum Pumps & Pre-mixing Tanks

Efficient sludge handling and homogenization.

Modular & Skid-mounted Design

Easy transport, quick setup for on-site or fixed-plant operations.

Automation & Real-time Monitoring

Ensures consistent performance and full compliance reporting.

BENEFITS:

High Oil Recovery

Recover up to 90%+ of valuable crude oil that can be sold or reused, turning waste into revenue.

Significant Cost Savings

Reduce sludge volume by 80-97%, slashing transportation, landfill, and disposal costs.

Environmental Compliance

Achieve near-zero liquid discharge (ZLD), lower emissions, and meet stringent international regulations.

Resource Recovery & Sustainability

Recycle water for reuse, produce inert solids for construction or safe disposal, and support circular economy practices.

Operational Efficiency

On-site treatment reduces handling risks, minimizes downtime, and lowers labor requirements through automation.

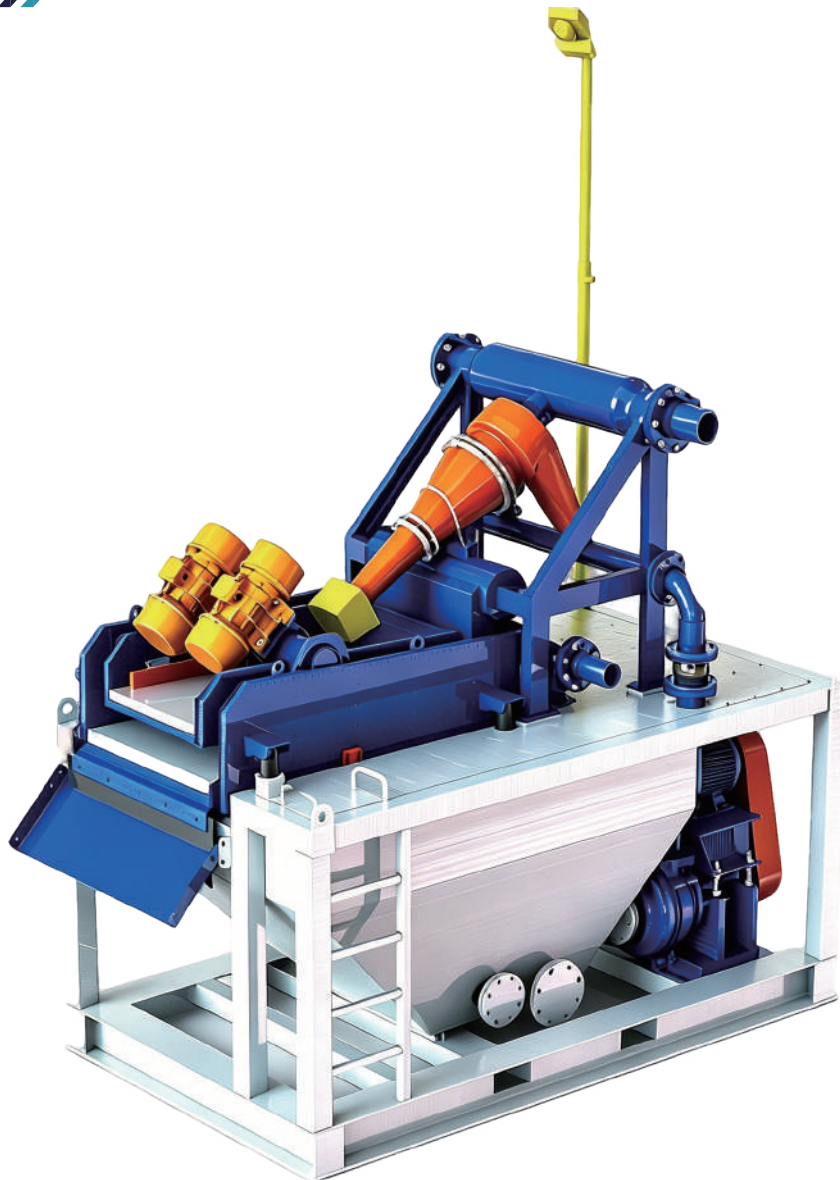


OIL SLUDGE TREATMENT SYSTEM SPECIFICATIONS

MODEL	HYBZOTS-01	HYBZOTS-05	HYBZOTS-15
Capacity	1-2m ³ /h	5-10m ³ /h	15-20m ³ /h

HDD MUD RECYCLING SYSTEM

Maximize Efficiency & Minimize Costs with HDD Mud Recycling



Horizontal Directional Drilling (HDD) projects consume large volumes of drilling fluid (mud). Disposing of spent mud and constantly mixing fresh fluid drives up costs, increases water usage, and creates environmental and regulatory challenges. Our HDD Mud Recycling System (also known as a Mud Reclaimer or Solids Control System) delivers high-efficiency cleaning and reuse of drilling fluids, helping contractors significantly cut costs while boosting productivity and sustainability.

FEATURES:

Multi-stage Solids Control

Coarse shale shakers for large cuttings + hydrocyclone desanders and desilters for finer particles (down to 20-25 microns).

High-performance Centrifuges (Optional)

For ultra-fine solids removal and superior fluid clarity.

Integrated Mixing & Storage Tanks

Partitioned tanks with agitators and mud guns for consistent fluid properties.

Centrifugal Pumps & Hoppers

Reliable circulation and chemical/additive mixing.

Compact & Modular Skid/trailer Design

Easy transport between job sites, ideal for urban and space-constrained projects.

Automation & Monitoring

Real-time flow and pressure monitoring for optimized performance.

BENEFITS:

Major Cost Savings

Reduce fresh water usage, bentonite, polymers, and additives by 50-70%+. Drastically lower disposal and trucking costs.

Increased Productivity

Maintain optimal mud properties for better hole stability, higher penetration rates, and fewer drilling interruptions.

Environmental Compliance

Minimize waste volume, reduce environmental footprint, and meet strict regulations on fluid disposal and water conservation.

Extended Equipment Life

Cleaner fluid reduces wear on mud pumps, drill bits, and downhole tools.

Faster Project Completion

Less time spent mixing new mud and handling waste means more time drilling.



HDD MUD RECYCLING SYSTEM SPECIFICATIONS

Model number	HYBZMS-50	HYBZMS-120	HYBZMS-240
Capacity	≤50 m³/h	≤120 m³/h	≤240 m³/h
Particle Size	15µm	40µm	40µm
Overall Dimensions	2950x1700x2520mm	3200x1700x2710mm	3245x2226x2783mm
Total weight	1969kg	3193kg	3738kg

CBM & GEOTHERMAL DRILLING MUD RECYCLING SYSTEM

Optimize Drilling Fluid Performance in CBM and Geothermal Operations



Coalbed Methane (CBM) and Geothermal drilling present unique challenges — including fine coal particles, high temperatures, hard rock formations, gas influx, and strict environmental requirements. Continuous mud recycling is critical to maintaining fluid properties, ensuring wellbore stability, reducing costs, and minimizing environmental impact. Our CBM & Geothermal Drilling Mud Recycling System provides high-efficiency solids control and fluid recovery tailored for these demanding applications.

FEATURES:

Multi-stage Solids Control

Linear motion shale shakers for initial coarse removal, followed by desanders, desilters, and mud cleaners for particles down to 15-20 microns.

High-speed Decanter Centrifuges

Excellent removal of ultra-fine solids common in coal seams and hard geothermal formations.

Gas Separation & Degassing

Liquid-gas separators and vacuum degassers to safely handle methane and other gases in CBM drilling.

High-temperature Compatible Components

Robust equipment designed for elevated temperatures and aggressive fluids typical in geothermal wells.

Compact Modular Design

Skid-mounted or trailer-mounted systems with partitioned tanks, agitators, and mixing hoppers for easy transport and fast rig-up.

Automation & Real-time Monitoring

Density, viscosity, sand content, and flow monitoring with optional PLC control for consistent performance.

BENEFITS:

Major Cost Savings

Recycle drilling fluid effectively, reducing consumption of bentonite, polymers, and water by 50-70% while lowering disposal and transportation costs.

Enhanced Drilling Efficiency

Maintain optimal mud properties for better hole cleaning, wellbore stability, and higher penetration rates in challenging coal and hard-rock formations.

Improved Safety

Effective gas handling in CBM operations and reduced risk of lost circulation or stuck pipe in geothermal wells.

Environmental Compliance

Minimize waste volume, reduce site footprint, and support closed-loop or near-zero discharge operations.

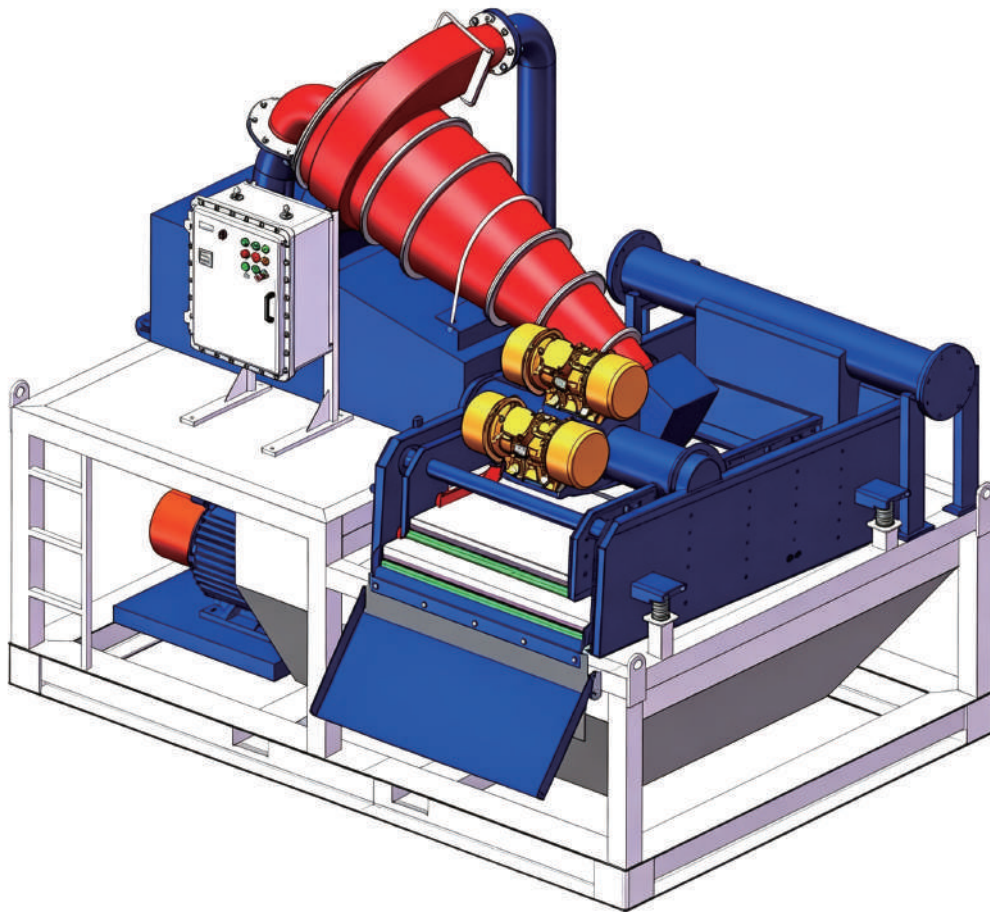
Extended Equipment Life

Cleaner fluid decreases wear on pumps, bits, and downhole tools, especially important in abrasive geothermal conditions.



SHIELD TUNNELING & PILE DRIVING DRILLING MUD TREATMENT SYSTEM

Efficient Mud Treatment for Shield Tunneling and Foundation Piling Projects



50-1500 m³/h treatment capacity is available.

Shield tunneling (slurry TBM) and bored pile driving generate large volumes of bentonite or polymer-based drilling mud mixed with excavated solids. Proper treatment is essential for maintaining mud properties, ensuring face stability, reducing costs, and meeting environmental regulations. Our Shield Tunneling & Pile Driving Drilling Mud Treatment System (Slurry Separation Plant / Mud Recycling System) delivers high-efficiency solids removal, fluid recovery, and recycling for continuous, reliable operations.

FEATURES:

Multi-stage Separation

Coarse vibrating shale shakers for large debris, followed by desanders and desilters (hydrocyclones) for sand and silt removal down to 20-25 microns.

High-speed Decanter Centrifuges

Ultra-fine solids removal for superior mud clarity and extended fluid life.

Slurry Storage & Mixing Tanks

Agitators, mud guns, and automatic dosing systems for consistent bentonite/polymer properties.

Modular & Skid-mounted Design

Compact, mobile units ideal for urban tunneling sites and piling projects with limited space.

Chemical Conditioning (Optional)

Coagulants and flocculants for enhanced dewatering of fine particles.

Automation & Monitoring

Real-time density, viscosity, and flow monitoring with PLC controls for optimized performance.

BENEFITS:

Improved Operational Efficiency

Maintain optimal mud properties for better face stability in shield tunneling and borehole stability in piling, leading to faster advance rates and fewer issues.

Significant Cost Savings

Recycle up to 80-90% of drilling fluid, drastically reducing fresh bentonite, polymers, water consumption, and disposal volumes.

Environmental Compliance

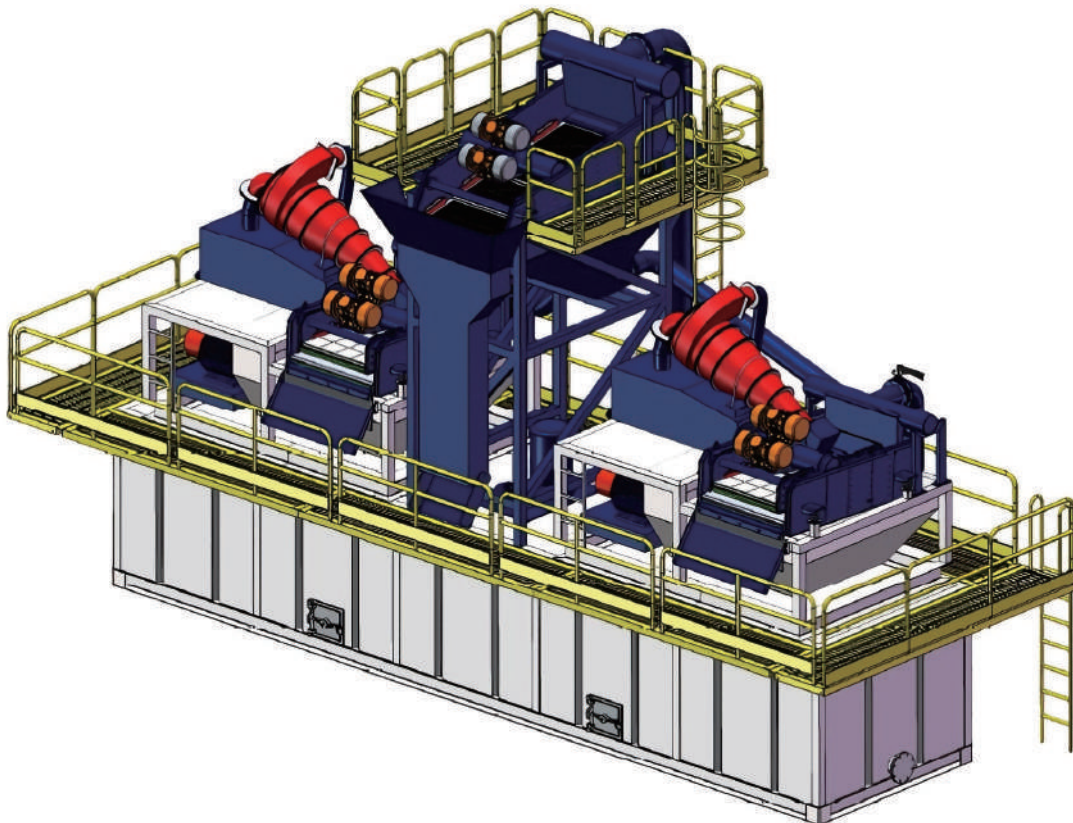
Minimize waste discharge, reduce site mess, and support zero-discharge goals with cleaner effluent.

Reduced Equipment Wear

Cleaner recycled mud extends the life of pumps, TBM components, and piling tools.

Versatility

Handles both slurry shield tunneling muck and bored pile bentonite mud effectively across various soil conditions.



Looking Ahead:

Leverage our innovation, cutting-edge technology and first-tier service quality to deliver efficient, environmental-friendly and cost saving solutions for energy industry.



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