



Professional manufacturer of mud solid control equipment

TangShan Dachuan Machinery Co., Ltd.

Tangshan · Hebei · CHINA



Company profile

Tangshan Dachuan Machinery Co., Ltd. is a professional company specialized in Oil & Gas Drilling solids control equipments and system manufacturing. Our company sets product R&D, design, manufacturing, sales and after-sales service in one. In addition to Oil & Gas Drilling, our products are widely used in Horizontal Directional Drilling, Coalbed Methane Drilling, Geothermal Drilling, Mining, Shield Drivage, River Silt Cleaning, Drilling Waste Management and other fields.

Our main products are: shale shaker, vacuum degasser, desander, desilter, mud cleaner, decanter centrifuge, centrifugal pump, mud agitator, jet mud mixer, shear pump, mud gas separator, flare ignition device, mud hopper, screw pump, mud gun, mud tank, diesel oil tank, water tank, etc.

People from Dachuan all hold a vision of "Based on domestic and global targeting". We pursue to provide top quality products and top services to our customers, thus to fully meet the demands and requirements of global market.





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Solids Control

Mature Quality Management System

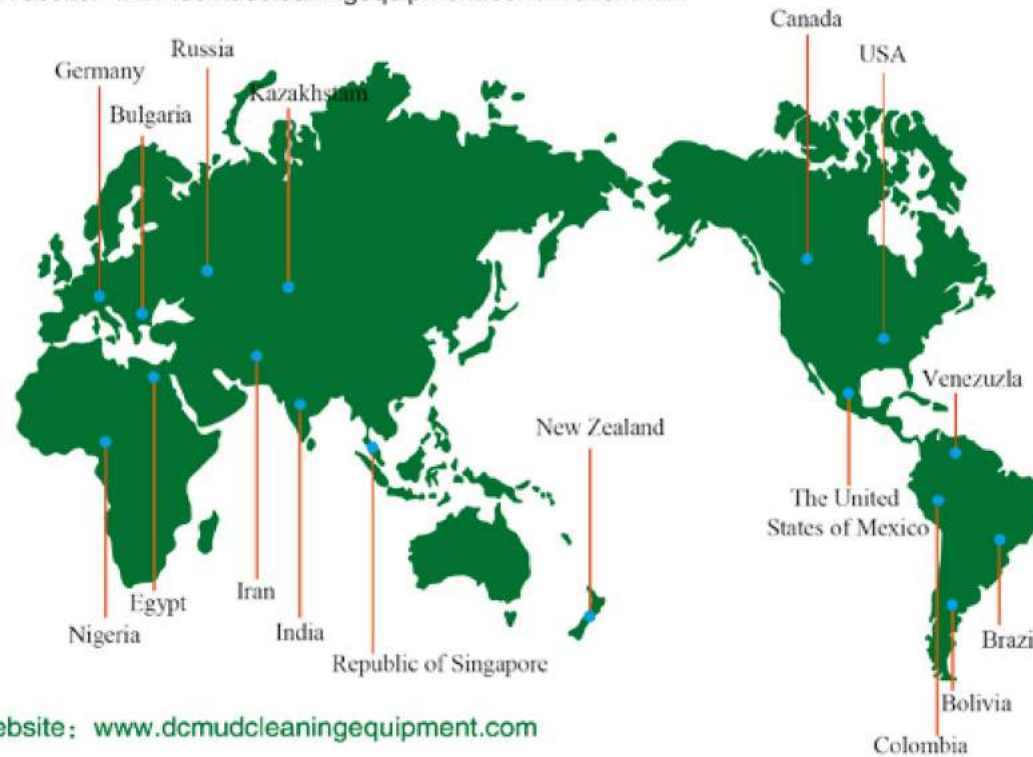
ISO certified solids control equipment manufacturer



Globalization Internet Marketing

Dachuan products have been exported to 37 countries and regions, the proportion of exports accounted for more than 85% of total sales. Formed a E-business gives priority to internationalization marketing system oriented international marketing system. The website detailed as follows:

1. English Website: www.dcmudcleaningequipment.com
2. Russia Website: www.dcsolidscontrol.ru
3. Chinese Website: www.tsdachuan.com
4. French Website: www.dcmudcleaningequipment.com/French.html



Website: www.dcmudcleaningequipment.com



Famous brand matching components:

Raw material: Select superior national standard steel

Accessories: Adopt domestic and international famous brand, such as, Italy OLI vibration motor, Sweden SKF bearing and Yuan Da valves.

Standard components: SS304 stainless steel and Dacromet coating

Electric element: SIEMENS, Schneider or CHINT.

Coating: TianJin Kansai, America SIGMA.

Customized the related components according to the requirements of clients



OLI® Vibrator



SIGMA
COATINGS

Assured Services System

Pre- Sales Service : Free consultancy and design according to clients requirements , provide optimal high quality competitive price proposal for individual clients .

After Sales : Guarantee & Commissioning : DC provide 1 year guarantee and free service for first time commissioning and training .

Emergency Service : For Clients in China : Within 1000Km distance , Engineers will arrive job site with in 48 hours after receiving report .Beyond 1000 Km distance , Engineers will arrive job site within 72 hours .

For Clients Abroad : According to clients demand : DC Engineers will leave for the job site ASAP or provide long-distance service , and finish trouble shooting .

Spare Parts Supply : DC has set up some stocks and services offices . DC will keep enlarging branches , and keep spare parts available in stock for soonest supply to customers and best service .

Website: www.dcmudcleaningequipment.com





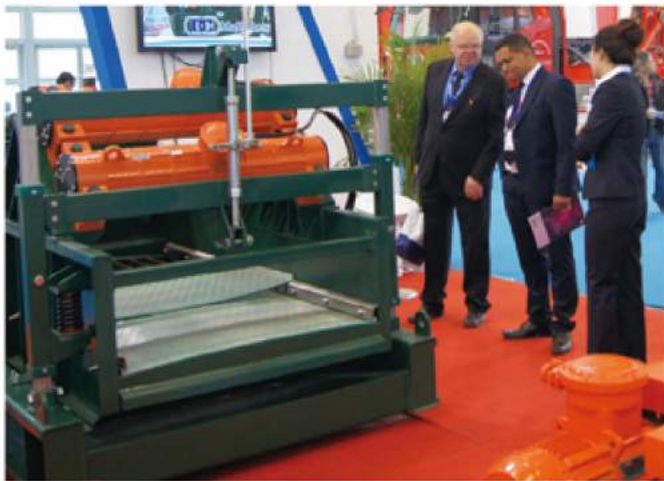
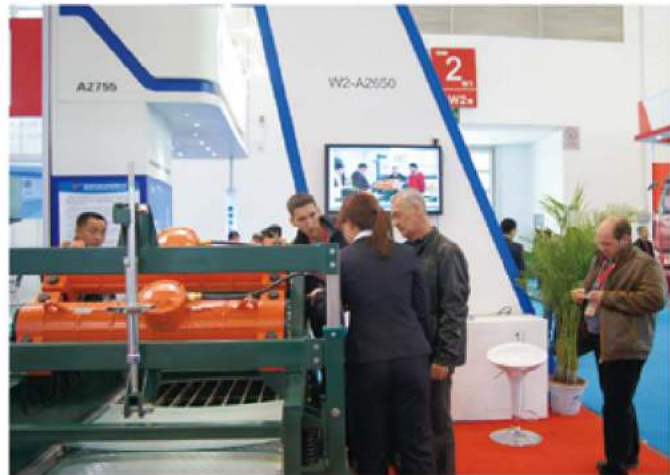
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1. Linear Motion Shale Shaker

Linear motion shale shaker is the primary processing equipment of solid control system, it is used for separating the large drilling cuttings from drilling fluid, and it plays an important role in protecting drilling fluid performance.

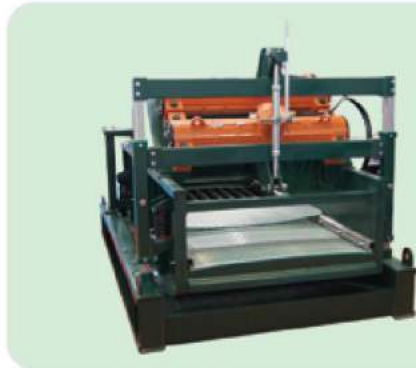
(1) Adopt Italy OLI brand motors which have the advantages of high strength vibration, large screening area, adjustable screen box angle, little noise and high efficiency.

(2) Heat treatment of the complete shaker deck. Surface painting with heavy anticorrosion to extend the service life of shale shaker.

(3) Use the full adhesive hookstrip rigidity screen or steel frame screen, the fixed tensioning plate can make to replace screen more convenient and easier and also can be replaced into many kinds of screens.

(4) Reasonable designing the cofferdam height of shale shaker logging tank can make mud buffer is uniformity flow, reduce direct impact on screen and effectively extend the screen service life.

(5) We can manufacture dual or thrivable shale shaker according to clients' requirements.



Linear Motion Shale Shaker Parameters

Model	DCZS850-2K	DCZS700-3G	DCZS630-3K	DCZS830-3G	DCZS585-4K
Vibrating Mode	Linear Motion				
Motor Power	2×1.5kW	2×1.5kW	2×1.5kW	2×1.72kW	2×1.72kW
Vibrating Strength	≤7.0G				
Amplitude	5~6mm				
Treating Capacity	80 m ³ /h 352GPM	110 m ³ /h 484GPM	120 m ³ /h 528GPM	130 m ³ /h 572GPM	130 m ³ /h 572GPM
Deck Adjustment	-1° ~5°				
Electric Specs	380V/50HZ or 460V/60HZ or Customized				
EX Standards	Ex dII BT4				
Screen Qty	2 panel	3 panel	3 panel	3 panel	4 panel
Screen Specification	850×1250mm 40~200 mesh	700×1050mm 40~200 mesh	630×1250mm 40~200 mesh	830×1080mm 40~200 mesh	585×1165mm 40~200 mesh
Screen Area	2.12 m ²	2.2m ²	2.36m ²	2.7m ²	2.73 m ²
Screen Type	Steel Frame	Hookstrip	Steel Frame	Hookstrip	Steel Frame
Dimension	2260×1860× 1380mm	2700×1620× 1500mm	2510×1720× 1500mm	3310×1650× 1580mm	2900×1700× 1500mm
Weight	1280kg	1580kg	1680kg	1750kg	1800kg
Remark	Specific gravity of mud treated by shale shaker is 1.2g/cm ³ , viscosity:45S, API 40				

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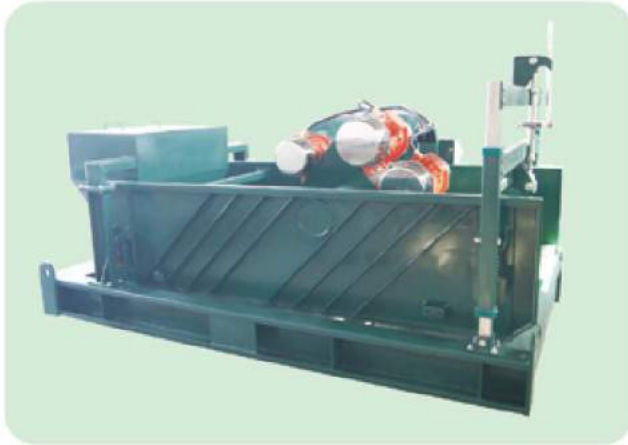
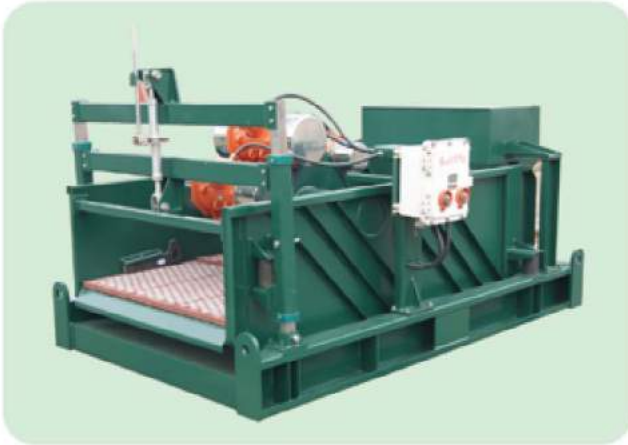




2. Dual Motion Shale Shaker

DCPTS Dual motion shale shaker is the latest developed product manufactured by our company which can realize both linear motion and balanced elliptical motion, converting movement trajectory according to the site conditions to get the optimum efficiency of mud processing, it is the most advanced and cost-effective shale shaker at present.

To the poor formation lithology DCPTS shale shaker has a good adaptability and outstanding advantages to fragile and clay stratum, it has the characteristics of treating capacity 20% larger than linear motion shale shaker, high drilling cuttings discharge speed, long service life of screens and small splash of drilling fluid.



Dual Motion Shale Shaker Parameters

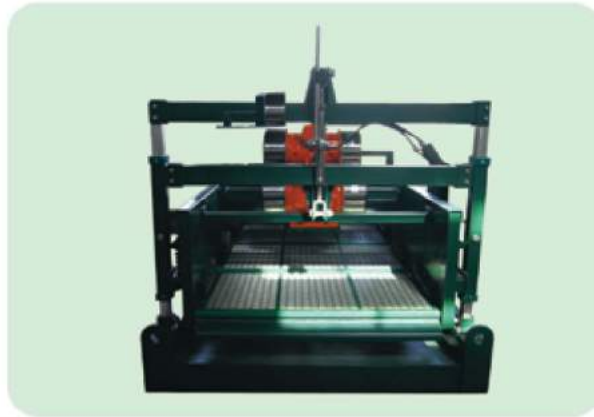
Model	DCPTS750-3K	DCPTS650-4K
Vibrating Model	Linear+Balanced Elliptical Motion	
Motor Power	1.72kW×2+0.4kW	1.94kW×2+0.45kW
Vibrating Strength	≤6.0G	
Amplitude	5~6mm	
Treating Capacity	140 m ³ /h (616GPM)	
Deck Adjustment	-1°~5°	
Electric Specs	380V/50HZ or 460V/60HZ or Customized	
EX Standard	Ex d II BT4	
Screen Qty	3 panel	4 panel
Screen Specification	750×1195mm 40~200mesh	650×1195mm 40~200mesh
Screen Area	2.68 m ²	3.11 m ²
Screen Type	Steel Frame	Steel Frame
Dimension	2800×1764×1720mm	3100×1764×1720mm
Weight	1800kg	1900kg
Remark	Specific gravity of mud treated by shale shaker is 1.2g/cm ³ , viscosity:45S, API 40	



3. Hi-G Dry Shaker

DC Hi-G Dry Shaker is a linear motion shale shaker, on the one hand, it is used to recover the mud from drilling cuttings of the main shale shaker and hydrocyclone, so as to reduce the mud waste and drilling cost; on the other hand, it makes the liquid/oil content in the drilling cuttings to as low as about 10%(w/w), for the purpose of reducing environmental pollution.

- (1) High G-force vibration intensity (adjustable as per working conditions);
- (2) Make drilling cuttings more dryer;
- (3) Weir type feed box is more applicable to on-site process;
- (4) Fast drilling cuttings conveying speed and high handling capacity;
- (5) Screen frame tilt angle can be adjusted from $-1^{\circ} \sim +5^{\circ}$;
- (6) Wedge tensioning system ensures easy screen replacement;



Hi-G Dry Shaker Technical Parameters

Model	DCGZ585-4K
Vibrating Mode	Linear Motion
Motor Power	2×1.94kW
Vibrating Strength	7.5G (adjustable)
Capacity	150 m ³ /h (660GPM)
Deck Adjustment	$-1^{\circ} \sim 5^{\circ}$
Electric Specs	380V/50HZ Or 460V/60HZ Or Customized
Certificate	Exd II BT4
Screen Quantity	4 panel
Screen Specification	585×1165mm , 200 ~ 300mesh
Screen Area	2.73 m ²
Screen Type	Frame
Dimension	2900×1700×1500mm
Weight	1800kg

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4. Mud Cleaner

Mud Cleaner is the mud cleaning equipment combination of desander, desilter hydrocyclone and an underflow shale shaker.

- (1) Compact structure, powerful function and small footprint area.
- (2) The material of hydrocyclone use the wear-resistant special polyurethane.
- (3) Underflow shaker equips the DC different model shale shakers.
- (4) We can design and manufacture the different numbers of desander and desilter hydrocyclone for clients' requirements.



Mud Cleaner Parameters

Model	DCQJ250×1/100×6	DCQJ250×1/100×8	DCQJ250×2/100×12	DCQJ300×2/100×16
Treating Capacity	90m ³ /h 396GPM	120m ³ /h 528GPM	240m ³ /h 1056GPM	300m ³ /h 1320GPM
Separation Size	15-75μm			
Desander Cones	10" (250) ×1	10" (250) ×1	10" (250) ×2	12" (300) ×2
Desilter Cones	4" (100) ×6	4" (100) ×8	4" (100) ×12	4" (100) ×16
Inlet Diameter	DN150			
Outlet Diameter	DN200			
Pressure	0.25~0.40MPa			
Matching Pump	DCSB5×4-12 -22kW	DCSB6×5-12 -30kW	DCSB8×6-13 -55kW	DCSB8×6-13 -55kW
Matching Shaker	Model	DCZS850-2K	DCZS700-3G	DCZS630-3K
	Vibrating Model	Linear Motion		
	Motor Power	2×1.5kW	2×1.5kW	2×1.5kW
	Screen Qty	2 panel	3 panel	3 panel
	Screen Specification	850×1250mm×2 panel, 120~300mesh	700×1050mm×3 panel, 120~300mesh	630×1250mm×3 panel, 120~300mesh
	Screen Area	2.12	2.2 m ²	2.36 m ²
	Screen Type	Steel Frame	Hookstrip	Steel Frame
	Electric Specs	380V/50HZ or 460V/60HZ or Customized		
EX Standard	Ex d II BT4			
Dimension	2530×1750×2210 mm	2530×1750×2210 mm	2530×1750×2210 mm	2530×1750×2210 mm
Weight	1780kg	2080kg	2200kg	2350kg
Remark	1、 4" Cones =10~20m ³ /h, 10" Cones =90~120m ³ /h , 12" Cones > 120m ³ /h 2、 The motor power of centrifugal pump choosed is according to drilling mud specific gravity 1.2g/cm ³			

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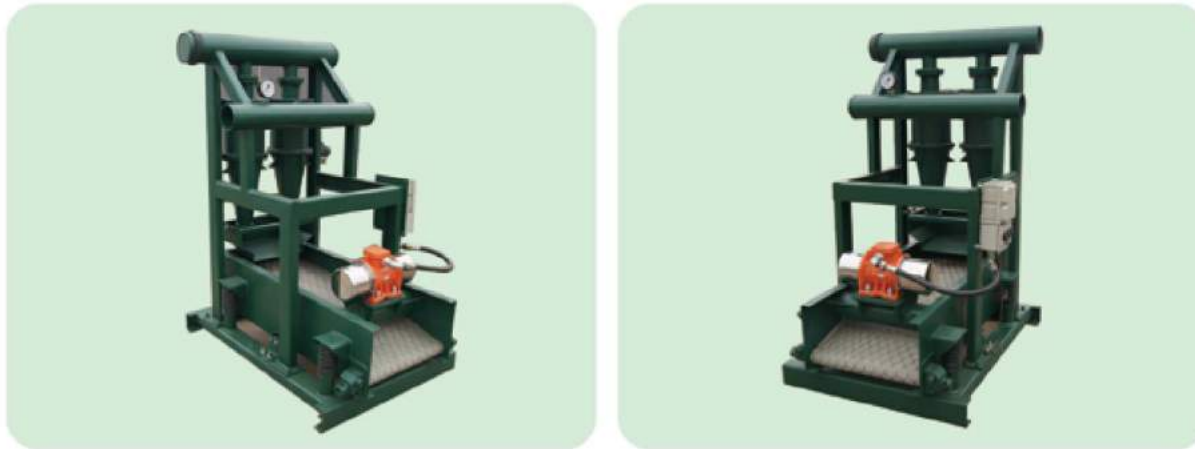




5. Desander

Desander is the second equipment in solids control system , it is used to separate solid phase particles whose diameter is 40~75 μ m.

- (1) Select Special wear-resistant polyurethane material hydrocyclones.
- (2) Inlet tangential feeding,smooth transition ,which help to improve separation efficiency and have a wide range of separation sizes.
- (3) Symmetrical feeding design can make the liquid distribution to be more reasonable and stable.
- (4) Size of the underflow hole of the hydrocyclone can be adjusted in order to control the handling capacity of the equipment.
- (5) Different specifications and quantities of hydrocyclones can be matched according to the handling capacity that customer required.



Desander Parameters

Model	DCCSQ250×1	DCCSQ250×1	DCCSQ250×2	DCCSQ300×2
Treating Capacity	90m ³ /h 396GPM	120m ³ /h 528GPM	240m ³ /h 1056GPM	300m ³ /h 1320GPM
Separation Size	40~75 μ m			
Cone Size	10" (250)	10" (250)	10" (250)	12" (300)
Cone Number	1	1	2	2
Pressure	0.25~0.40Mpa			
Matching Pump	DCSB5×4-12-22kW	DCSB6×5-12-30kW	DCSB8×6-13-55kW	DCSB8×6-13-55kW
Electric Specs	380V/50HZ or 460V/60HZ or Customized			
EX standard	Ex d II BT4			
Inlet Diameter	DN150			
Outlet Diameter	DN200			
Matching Shaker	Screen Specification	600×1600mm,120-300 mesh		
	Screen Type	Soft Hookstrip		
	Motor Power	0.4kW		
Dimension	1200×1200×2000mm		1470×1400×2000mm	1500×1750×2020mm
Weight	585kg		615kg	610kg
Remark	1.10"Cones=90~120m ³ /h , 12" Cones > 120m ³ /h 2.The motor power of centrifugal pump choosed is according to drilling mud specific gravity 1.2g/cm ³			

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6. Desilter

Desilter is the third class solid control equipment in solid control system, it is used to separate the solid phase particles whose diameter is 15~44 μ m.

- (1) Select Special wear-resistant polyurethane material hydrocyclones.
- (2) Symmetrical feeding design can make the liquid distribution to be more reasonable and stable.
- (3) Underflow shaker equips DC mud shale shaker.
- (4) Different specifications and quantities of hydrocyclones can be matched according to the handling capacity that customer required.



Desilter Parameters

Model	DCCNQ100×6	DCCNQ100×8	DCCNQ100×10	DCCNQ100×12	DCCNQ100×16
Treating Capacity	90m ³ /h 396GPM	120m ³ /h 528GPM	180m ³ /h 792GPM	240m ³ /h 1056GPM	300m ³ /h 1320GPM
Separation Size	15~44 μ m				
Cone Size	4" (100)				
Cone Number	6	8	10	12	16
Pressure	0.25~0.40Mpa				
Matching Pump	DCSB5×4-12 -22kW	DCSB6×5-12 -30kW	DCSB6×5-13 -45kW	DCSB8×5-13 -55kW	DCSB8×6-13 -55kW
Electric Specs	380V/50HZ or 460V/60HZ or Customized				
EX standard	Exd II Bt4				
Inlet Diameter	DN100	DN150			
Outlet Diameter	DN125	DN200			
Matching Shaker	Screen Specification	600×1600mm, 120-300mesh			
	Screen Type	Soft Hookstrip			
	Motor Power	0.4kW			
Dimension	1480×1200×1740mm	1480×1750×1780mm			
Weight	743	755kg	768kg	780kg	810kg
Remark	1. 4" Cones = 10~20m ³ /h 2. The motor power of centrifugal pump choosed is according to drilling mud specific gravity 1.2g/cm ³				

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7. Vacuum Degasser

Vacuum degasser can quickly eliminate the invaded gas from the drilling mud, restore drilling mud proportion, keep mud viscosity performance and improve the quality of drilling mud.

- (1) Negative pressure degasser can efficiently separate gas and liquid, filter out impurities and ensure smooth exhaust.
- (2) During the working process of water ring vacuum pump, it always stays in isothermal condition, which is suitable for the suction of flammable and explosive gas and the performance is safe and reliable.
- (3) Drilling mud hit the wall through the window of a rotor at a high speed, bubbles in the mud broken thoroughly, the degassing efficiency is high and more than 95%.
- (4) The application of gas water separator will not make the water and gas discharged simultaneously and the discharge pipe is always clear.



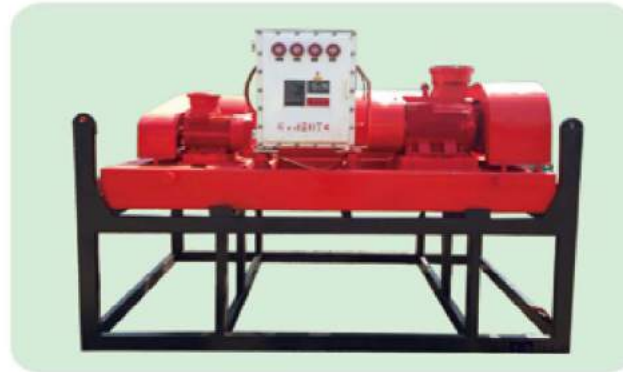
Vacuum Degasser Parameters

Model	DCZCQ240	DCZCQ270	DCZCQ300	DCZCQ360
Main Diameter	700mm	800mm	900mm	1000mm
Treating Capacity	≤240 m ³ /h	≤270 m ³ /h	≤300 m ³ /h	≤360 m ³ /h
Vacuum	-0.02~-0.04MPa	-0.02~-0.04MPa	-0.030~-0.055MPa	-0.040~-0.065MPa
Speed	860rpm	870rpm	876rpm	880rpm
Efficiency	≥95%			
Electric Specs	380V/50HZ Or 460V/60HZ Or customized			
EX Standard	Exd II BT4			
Inlet Diameter	114mm	133mm	159mm	159mm
Outlet Diameter	140mm	159mm	219mm	219mm
Motor Power	15kW	22kW	30kW	37kW
Vacuum Power	2.2kW	3kW	4kW	7.5kW
Dimension	1750×860×1500mm	2000×1000×1670mm	2250×1330×1650mm	2400×1500×1850mm
Weight	1150kg	1450 kg	1800 kg	2100 kg

8. Centrifuge

Drilling fluid centrifuge is used for recovering barites, removing small solid particles, reducing solids content in mud, thus ensure drilling fluid performance.

- (1) Shanghai centrifuge research institute particles in the development of our products.
- (2) Bowl, screw propeller and collecting box all adopt stainless steel 304 material.
- (3) Impeller of screw propeller welding hard alloy.
- (4) Solids discharging port adopts replaceable hard alloy and inlay ceramic protecting materials.
- (5) Bearing all adopt imported Sweden SKF.
- (6) Electrical components select Siemens or Schneider brands.
- (7) Adopt planetary differential.
- (8) Feeding pumps adopt DC Screw pumps.



LW Centrifuge Parameters

Model	DCLW 250-1100N	DCLW 350-1000N	DCLW 450-842N	DCLW 450-1000N	DCLW 600-1019N	DCLW 700-1200N
Max capacity	10 m ³ /h	30 m ³ /h	40m ³ /h	50m ³ /h	60m ³ /h	90m ³ /h
Main motor	7.5kW	22kW	30kW	37kW	45kW	55kW
Back motor	4kW	5.5kW	5.5kW	7.5kW	11kW	22kW
Feeding pump	3kW	5.5kW	5.5kW	5.5kW	7.5kW	11kW
Separation Point	5~7μm					
Electric Specs	380V/50HZ or 460V/60HZ or customized					
Bowl Dia	250mm	350mm	450mm	450mm	600mm	700mm
Bowl length	1100mm	1000mm	842mm	1000mm	1019mm	1200mm
Bowl speed	4000rpm	3200rpm	2200rpm	2200rpm	1800rpm	1480rpm
Separation factor	2240G	2007G	1220G	1220G	1088G	859G
Dimension	1900×1050×800mm	2350×1620 ×1950mm	2350×1620 ×1950mm	2350×1620 ×1950mm	2950×1620 ×1950mm	3300×1820 ×2180mm
Weight	1000kg	3000 kg	3000kg	3000kg	3800 kg	4500 kg

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9. High speed variable frequency centrifuge

High-speed variable frequency centrifuge with its unique advantages, is increasingly favored by more and more users. After concentrated study of our engineers, centrifuges produced by Dachuan have the following characteristics:

- (1) Different working speed can be set according to actual need, thus achieving the purpose of energy saving.
- (2) Fast dynamic responses and accurate speed difference adjustment can greatly improving the content of dry material in the wastes.
- (3) Switch between speed and torque is quite convenient , which can improve working efficiency.
- (4) The device can be used to separate solid particles whose diameter is above 2 microns.
- (5) Explosion-proof electronic control cabinet adopts explosion-proof fan to cooling and heating tape to deice and defrost.



DCLW (VFD) Centrifuge Parameters

Model	DCLW355-1250N (VFD)	DCLW450-1258N (VFD)	DCLW450X1350N (VFD)	DCLW600X1500N (VFD)
Max capacity	40 m ³ /h	60 m ³ /h	60m ³ /h	80m ³ /h
Main motor	30kW	37kW	45kw	55kW
Back motor	11kW	11kW	11kW	22kW
Feeding pump	7.5kW	7.5kW	7.5kW	11kW
Separation Point	2~5μm			
Electric Specs	380V/50HZ or 460V/60 or customized			
EX standard	Exd II BT4			
Bowl diameter	355	450	450mm	600mm
Bowl length	1250mm	1258mm	1350mm	1500mm
Bowl speed(VFD)	0~3400rpm	0~2950rpm	0~3200rpm	0~2600rpm
Separation factor	0~2298G	0~2193G	0~2580G	0~2271G
Dimension	2900×1500×1650mm	2900×1600×1700mm	3200×1650×1700mm	3200×1810×1900mm
Weight	2950kg	3650kg	3650 kg	3550 kg

10. Vertical drilling cutting dryer

DCTLL-A vertical drilling cutting dryer is a kind of separation equipment which utilizes mechanical rotary produce centrifugal force to realizesolid and liquid separation. The advantages of the equipment are adaptable, better treating efficiency, stable working, long service life and can effective recycling the drilling fluid in drilling cuttings. It is the preferred equipment to dry drilling cuttings, recycle drilling fluid and especially recycle oil base drilling fluid.



Vertical drilling cutting dryer Parameters

Model	DCTLL-A915
Treating capacity	30~50 t/h
Screen opening	0.25-0.5mm
Screen basket ID	915mm
Rotary speed	910rpm
Motor power	55kW
Lubrication motor power	0.55kW
Vltage	380V/50HZ or 460V/60HZ or Customized
EX standard	Exd II BT4
Screen taper angle	30°
Separation factor	424G
Spiral differential	13rpm
Drilling cutting fluid content	3%~8%
Dimension	3041×2150×2426mm
Weight	6000kg

11. Screw Conveyor

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Screw Conveyor is commonly known as Auger, it is a widely used conveyor equipment. Compared with other conveyor equipments, it has the advantages of small size, good sealing, stable and reliable operation, many discharge loads and unloads, safe operation and easy maintenance.

DCLS Screw Conveyor is designed for transporting mud cuttings, providing an effective and low-cost drilling cuttings transport system for offshore and onshore drilling rigs. The flights of screw conveyor adopt wear-resistant material, screw diameter from 250mm to 500mm, the length from 4 meters to tens of meters, 0.5 meters every gear, according to transport the material characteristics to choose a shaft or a shaftless screw conveyor.



Screw Conveyor Parameters

Model	Screw Diameter (mm)	Screw Length (m)	Capacity (t/h)	Speed (rpm)	Motor (kW)	Dimension (m)	Weight (kg)
DCLS250-8	250	8	15	60	3.0	9850×400×550	950
DCLS300-8	300		20		4.0	9850×450×600	1370
DCLS350-8	350		30		7.5	9900×500×650	1450
DCLS400-8	400		50		11	9900×550×680	1900
DCLS500-8	500		85		15	9900×650×750	2400
Remarks	Conveying capacity and the motor power is the proportion of materials 1:1, conveying angle 0°, the data under the condition of 60rpm.						

12. Drilling cutting box

Drilling cutting box mainly used in offshore to transport abandon drilling fluid and cuttings to onshore. But cutting box has already generalized to onshore at present.

Drilling cutting box produced by Dachuan has the following characteristics:

- (1) Structure of cutting box is indurative and with watertight seal.
- (2) The bottom of cutting box is planar and no bulge.
- (3) Weld surface molding is uniformity, densification, closely integrated with the steel plate, seamless, and no oversize surplus height of seam, weld beading, arc crater, undercut and other defects.
- (4) Antiseptic sand blasting of Q235A steel, twice of epoxy zinc rich primer, penguard midcoat MIO and chlorinated rubber top-coat. the thickness of dry editpaint film is larger than 100um
- (5) CCS Certificate of offshore drilling cutting box.



Drilling cutting box Parameters:

Model	DCZX-2.0
Volume (m ³)	2.2
Dead load (t)	0.75
Working load (t)	Customized
Dimension (mm)	2120×1550×1220

13. Jet Mud Mixer

Jet mud mixer is a specialized solids control equipment used for configuring and aggravating drilling fluid, thus change the density, viscosity and pH of drilling fluid.

DC uses venturi tube combined with original jet nozzle created a new design of jet mud devices, not only simple in structure, but also have strong feasibility, which can meet the aggravation and configuration of drilling fluid in drilling solid control system from 1500m to 9000m. We can also produce double jet mud mixers according to customers' requirements.

Jet mud mixers produced by DC have the advantages of high mixing speed, safe and reliable performance, long service life and ect.



Jet Mud Mixer Parameters

Model	DCSLH150-50	DCSLH150-45	DCSLH150-35	DCSLH100-25	DCSLH100-25
Treating Capacity	230-375m ³ /h 1012-1650GPM	140-230m ³ /h 616-1012GPM	120-210 m ³ /h 528-924GPM	70-110 m ³ /h 308-484GPM	30-60m ³ /h 132-264GPM
Matching Pump	SB8 x6-13-55kW	SB6 x5-13-45kW	SB6 x5-12-30kW	SB5 x4-12-22kW	SB4 x3-12-15kW
Pressure	0.25~0.40Mpa				
Feed Inlet	6" (150)	6" (150)	6" (150)	4" (100)	4" (100)
Inlet Diameter	8"	6"	6"	5"	4"
Outlet Diameter	5"	5"	5"	4"	4"
Hopper Size	600x600mm	600x600mm	600x600mm	500x500mm	500x500mm
Mixing Speed	100kg/min	80kg/min	≤80kg/min	≤60kg/min	≤40kg/min
Mud Density	≤2.8g/cm ³	≤2.4g/cm ³	≤2.0g/cm ³	≤2.0g/cm ³	≤1.5g/cm ³
Mud Viscosity	≤120s	≤120s	≤120s	≤80s	≤60s
Dimension	2200 x1760 x1250mm	2200 x1760 x1100mm	2200 x1760 x1100mm	1800 x1720 x890mm	1800 x1720 x890mm
Weight	1600kg	1350kg	1280kg	950kg	900kg
Remark	The motor power of centrifugal pump choosed is according to drilling mud specific gravity 1.2g/cm ³				

14. Shear Pump

Shear pumps developed by DC have perfect shear and hydration system , which can quickly cut and dilute hydrated polymer.

- (1) Unique mechanical composite seal technology , ensuring no leakage.
- (2) High wear-resistant metallic material impellers and casing will prolong service life.
- (3) Impeller structure which accords with the principle of fluid mechanics will increase liquidity .
- (4) Efficient and low shear force will reduce costs.



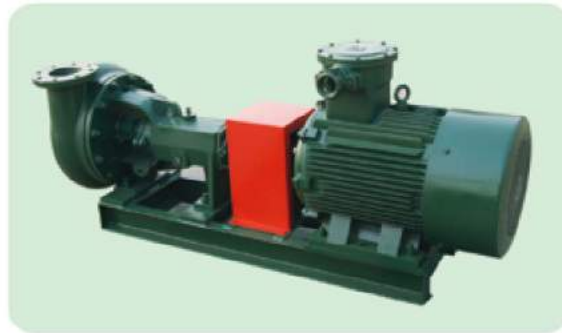
Shear Pump Parameters

Model	JQB6545	JQB6535
Flow	120m ³ /h 528GPM	100m ³ /h 440GPM
Lift	45m	35m
Power	55kw	45kw
Electric Specs	380V/50HZ or 460V/60HZ or Customized	
EX Standard	Ex d II BT4	
Dimension	1050×1000×1280mm	1050×1000×1250mm
Weight	980kg	800kg

15. Centrifugal Pump

Centrifugal pumps are used to supply slurry to desanders and desilters, and at the same time can be kinetic pumps for jet mud mixers.

- (1) Adopt high wear resistant hard alloy mechanical seal .
- (2) Adopt imported bearings .
- (3) Adopt thicker pump cases , whose flow passages are more reasonable , which can reduce turbulence to the minimum.
- (4) Pump body adopts open structure , which makes the installation, repair and maintenance to be more convenient.
- (5) Impellers and over-current components all adopt high wear resistant cast iron.



Centrifugal Pump Parameters

Model	Flow		Lift (m)	Efficiency (%)	NPSH (m)	Power (kW)	Speed (rpm)	Dimension (mm)	Weight (kg)
	m ³ /h	GPM							
DCSB8x6-14	320	1408	40	65	4.0	75	1480	1980×660×1030	1105
DCSB8x6-13	290	1276	33	64	4.5	55	1480	1910×660×930	945
DCSB6x5-14	200	880	40	62	3	55	1480	1870×570×930	900
DCSB6x5-13	180	792	34	60	3	45	1475	1820×570×830	765
DCSB6x5-12	160	704	30	60	3	30	1470	1740×570×830	700
DCSB5x4-14	120	528	40	56	4.6	37	1475	1770×480×830	710
DCSB5x4-13	90	396	40	56	4.5	30	1470	1710×480×830	650
DCSB5x4-12	90	396	30	56	4.5	22	1470	1650×480×830	600
DCSB4x3-13	50	220	40	48	4.5	18.5	1470	1610×500×750	560
DCSB4x3-12	45	198	30	47	4	15	1460	1570×500×700	510
DCSB3x2-13	25	110	35	40	3	11	1460	1370×480×700	450
DCSB3x2-12	23	101	29	39	3m	7.5	1440	1360×480×700	400
DCSB3x2-11	20	88	23	39	3m	5.5	1440	1320×480×700	390
DCSB8x6-12	335	1474	43	66	4.8	75	1780	1980×660×1030	1105
DCSB6x5-12	196	862	48	61	3	55	1780	1870×570×930	900
DCSB5x4-14	149	656	61	58	4.6	45	1760	1800×480×830	715
DCSB5x4-12	120	528	40	58	4.6	37	1760	1770×480×830	710
DCSB5x4-11	112	493	45	57	4.2	30	1760	1710×480×830	650
DCSB5x4-10	105	462	30	57	4	22	1750	1650×480×830	600
DCSB4x3-12	55	242	46	48	4	18.5	1750	1610×500×750	560
DCSB4x3-11	54	238	35	47	4	15	1750	1570×500×700	510
DCSB3x2-12	28	123	45	40	3.1	11	1750	1370×480×700	450
DCSB3x2-11	25	110	35	41	3.1	7.5	1750	1360×480×700	400

Remark: 1.The motor power of centrifugal pump choosed is according to drilling mud specific gravity 1.2g/cm³.2.Certificate: Ex d II BT4.

16. Submersible Slurry Pump

Submersible slurry pump is used in oil drilling solids control system, pumping concentrated liquid, heavy oil, oil impurities, dirty fluid, mud and silt containing slag material and corrosive liquids. Submersible slurry pumps produced by DC have the advantages of high efficiency, maintenance free, heat-resistant, long service life, etc.

- (1) Geometry of flow components conform to the flow regime of medium, reducing hydraulic losses caused by eddy and impact of local and on-way.
- (2) Adopt power step-down to ensure no leakage of the slurry.
- (3) Pump flow components adopt high hard alloy casting, the material have the advantages of high wear resistance, corrosion resistance, impact resistance and long service life.



Submersible Slurry Pump Parameters

Model	Flow		Lift (m)	Speed (rpm)	Efficiency (%)	Power (kW)	Dimension (mm)	Weight (Kg)
	m ³ /h	L/S						
DC50YZ20-18A	10	2.8	10	1430	42	2.2	2710×500×720	364
DC50YZ20-18	20	5.6	18	1430	42	3	2710×500×720	366
DC50YZ20-18	30	8.4	10	1430	47	4	2730×500×720	388
DC50YZ40-10	40	11.2	10	1440	56	5.5	2750×500×720	400
DC50YZ50-20	50	13.8	20	1440	56	7.5	2810×500×720	583
DC80YZ80-20A	80	22.2	21	1460	55	11	2650×500×720	610
DC80YZ80-20	90	25	15.6	1460	51	11	2750×500×720	720
DC100YZ100-30A	110	30.6	24	1470	54	18.5	2790×600×900	840
DC100YZ100-30	120	33.3	28	1470	56	22	2810×600×900	880
DC100YZ160-38	160	44.4	39	1480	52	45	2920×600×900	1300
DC150YZ250-40B	200	55.6	25	1480	49	37	3160×700×1130	1400
DC150YZ250-40A	240	66.7	31	1480	50	45	3190×700×1130	1500
Remark	1. Submersible length of the pump is 1500mm or customized 2. The motor power of centrifugal pump choosed is according to drilling mud specific gravity 1.2g/cm ³ . 3. Certificate: Ex d II BT4.							

17. Screw Pump

Screw pump is an ideal equipment used for feeding slurry for decanter centrifuge in solids control system.

- (1) This pump has a strong adaptability to medium,smooth flow,small pressure fluctuation and high suction capacity.
- (2) With unique design of rotor and stator, low rate of pump internal flow and more stable pressure.
- (3) Screw and machine body are made of stainless steel material which is corrosion resistant and has a long service life .
- (4) With few spareparts ,simple maintenance,easy to be replaced and maintained , compact structure and small footprint.



Screw Pump Parameters

Model	Flow m ³ /h	Pressure (Mpa)	Speed (rpm)	Power (kW)	Motor pole logarithmic	Inlet flange (DN)	Outlet flange (DN)	Dimension (mm)	weight (kg)
DCG40-1	12	0.6	960	4	6	80	65	1500×320×550	250
DCG50-1	20	0.6	960	5.5	6	100	80	1550×340×562	280
DCG60-1	30	0.6	960	11	6	125	100	1810×370×600	360
DCG70-1	40	0.6	720	11	8	150	125	2210×420×700	420
DCG85-1	50	0.6	585	15	4	150	125	2100×420×700	590
DCG105-1	60	0.6	360	18.5	4	200	150	2530×420×700	650
DCG105-1	70	0.6	420	18.5	4	200	150	2530×420×700	650
Remark	1.The motor power of centrifugal pump choosed is according to drilling mud specific gravity 1.2g/cm ³ . 2.Certificate: Ex dII BT4.								

18. Mud Agitator

DC mud agitator is used for the mixing and agitation of drilling fluid, preventing the settlement of solid phase particles in the tank recycling system.

(1) Speed reducer combined with explosion-proof motor, which is easy maintenance and suitable for using in wild harsh working conditions.

(2) Customers can choose single layer or double layers impellers according to site conditions. Agitator shaft centering guide can be added according to the increase of tank depth.

(3) The motor is placed horizontally, convenient for installing, adjusting and replacing.

(4) Adopt worm wheel and worm gear reducer drive, which have the advantages of large transmitted torque, smooth operation, reliable performance, etc.

(5) Optional ATEX, IEC and marine explosion-proof certified motors according to customers' requirements.

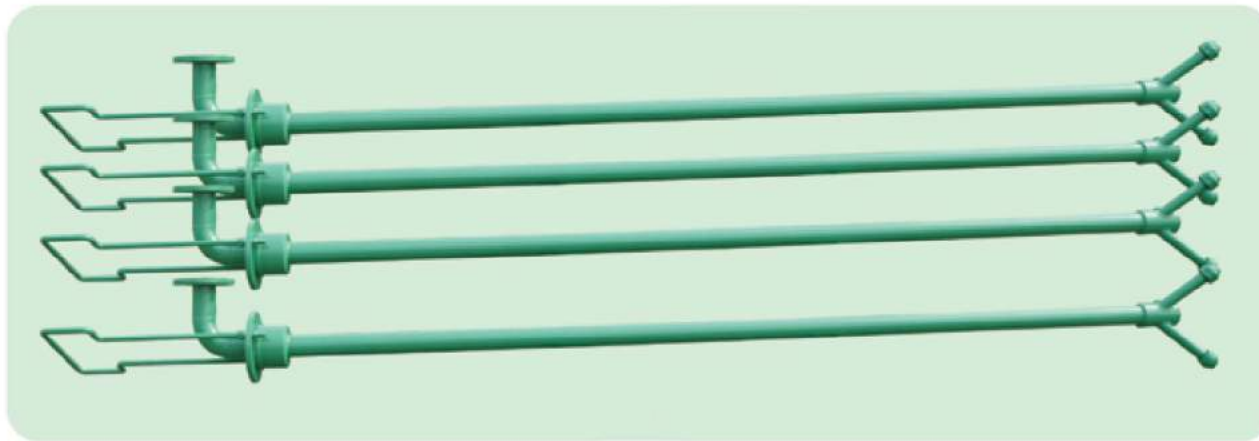


Mud Agitator Parameters

Model	DCJBQ5.5	DCJBQ7.5	DCJBQ11	DCJBQ15
Motor Power	5.5kW	7.5kW	11kW	15kW
Impeller Speed	60rpm (50HZ) /72rpm (60HZ)			
Shaft Length	1500mm or According to tank internal height			
Single Impeller Dia.	850mm	950mm	1050mm	1100mm
Double Impeller Dia.	N/A	Up: 800mm Down: 800mm	Up: 850mm Down: 850mm	Up: 900mm Down: 900mm
Electric Specs	380V/50HZ or 460V/60 or Customized			
EX Standard	Ex d II BT4			
Motor and reducer	Dimension	910×600×560mm		1080×650×630mm
	Weight	252kg	255 kg	340 kg
Single Impeller	Dimension	850×850×1500mm	950×950×1500mm	1050×1050×1500mm
	Weight	45 kg	50 kg	55 kg
Double Impeller	Dimension	N/A	800×800×1500	850×850×1500
	Weight		65 kg	75 kg
Remark	1、Righting set provided if impeller shaft length is above 1800mm.			

19. Mud Gun

Mud gun is also called drilling fluid gun which is solid control equipment produced by DC Solid control. Mud gun is divided into low pressure, medium pressure and high pressure. It is located in the top of the drilling fluid circulating tank and mainly used in the tank corner to prevent solid precipitation or and wash the bottom of the tank, it also can transport the mud between tank and tank. Besides, mud guns can be supplied by centrifugal pump or mud pump. Mud guns produced by our company have the advantages of good spray effect ,large clean area, simple structure, flexible operation and easy to use.



Mud Gun Parameters

Model	DCNJQ50	DCNJQ80
Diameter	50mm (2")	80mm (3")
Work Pressure	1.0Mpa~3.2Mpa	
Nozzle Number	3	
Rotation Angle	120°	
Length	1500mm or customized	
Dimension	1900×460×360mm	1900×460×360mm
Weight	45kg	50kg





22. Oil Tank

Oil tank is the major corollary equipment in oilfield drilling rig, it is mainly used to store and provide fuel to generator set. The oil tank designed and produced by our company is easy and convenient to use and maintain.



Oil Tank Parameters

Design Pressure	Ordinary pressure
Temperature	$\leq 50^{\circ}\text{C}$
Common Volume	20m ³ 、30m ³ 、40m ³ 、50m ³ 、60m ³ etc.
Tank body is sandblasted, anti-rust rating to Sa 2.5, using strengthened epoxy coal asphalt anticorrosive paint. Coating structure: Primer finish paint-glass cloth-double finish Paint, total thickness of coat no less than 0.6mm.	
Service Life	20 years
Carried Standard	The anti-corrosion of oil tank is according to CNCIA-HG/T0001-2006 standard

23. Water Tank

DCSG water tank is one of the system equipments at the oil drilling site. There is a lot of water stored in the tank to meet the requirements of water supply of the circulation tanks and fire protection.

DC water tank benefits

- (1)V-shaped corrugated board wall with good rigidity and nice appearance.
- (2)The bottom of water tank used in oil field adopts skid mounting and three aisles.
- (3)Water tank equiped walkway, ladder and manhole for convenience to operate.
- (4) All accessories and fittings between tank and tank adopts domestic ISO and API certified manufacturers to make safe quality.
- (5)Raw materials paint the primer undercoat immediately after sandblasting to get the good antiseptic effect
- (6)Heavy-duty coating paint to prolong service life.



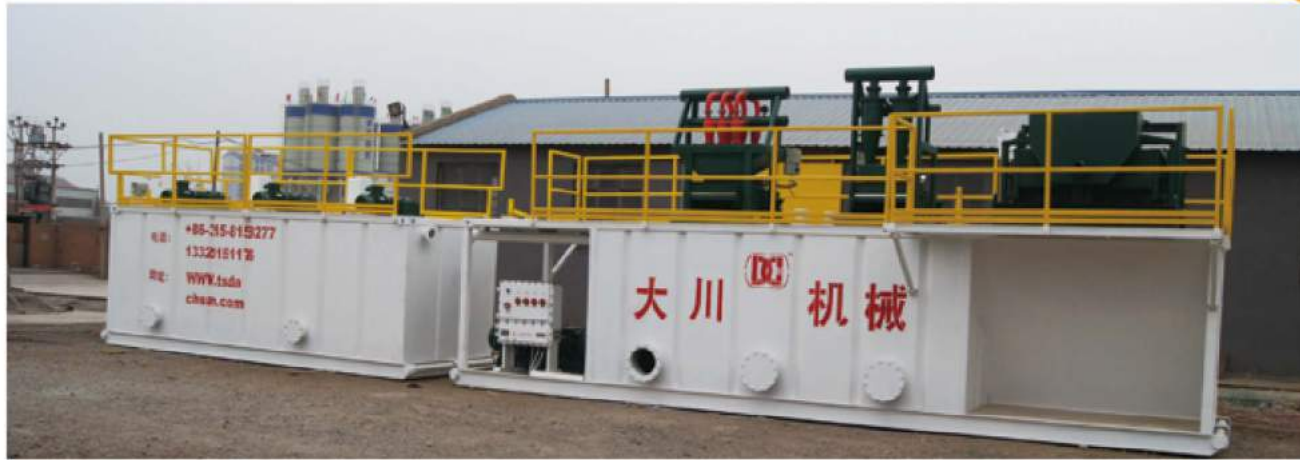
Water Tank Parameters

Tank body type	Single tank & Suit tank
Pressure	Normal pressure
Volume	30~100m ³ or customized
Anti-corrosion processing	Internal: preservative special water based anti-corrosion. Tank-outside: Spraying epoxy zinc rich primer+intermediate paint+polyurethane paint.
Water leakage test before they leave the factory, to ensure that tank body no leakage.	
According to customer requirements can do thermal insulation processing.	

Website: www.dcmudcleaningequipment.com



24. Mud Cleaning System



Mud cleaning system is an important and obligato constiuent part in the modern drilling equipment, it can keep the mud normal circle and stable performance in drilling process, ensure drilling works on the premise of safety, environmental protection and high efficiency. On the basic of DC mud cleaning system combines the solid control advantages at home and abroad, the mud cleaning system produced by DC Machinery is a new type product which is designed by the pratical demand of drilling technology. It constituted by shale shaker, vacuum degasser, desander, desilter, centrifuge. It can realize the storage and mixture of drilling fluid, remove harmful solid phase, maintain drilling fluid performance, meet the requirements of circulation, aggravation, shearing of drilling fluid and trouble removal, efficiently improve drilling efficiency and safety. It is convenient to transport by highway and railway, and the mud cleaning system can be moved in the drilling field at a short distance.

Quality Control system: SY/T6276 , ISO/CD14690 << Oil and gas industry health safety environmental protection and environment management system>> process flow, the equipments conform to API13C and related standard and norm.

- (1) The system has humanized whole layout, beautiful appearance, strong adaptability, modern design, rational layout, perfect performance and the advanced process.
- (2) The system has many good performance of cold-resistant, high temperature, anti-explosion, anti-leakage, anti-corrosion, raining proof, adapt to wicked condition of well drilling.
- (3) There are medium pressure mud pipelines and rinsing pipelines on the tank surface.
- (4) There is a pressure bar type clear sand door behind the tank, it is convenient and flexible to opened.
- (5) To use the hard union type connection between the tank, it is convenient to install and teardown.
- (6) Accurate positioning between the tank, and rapidly connect.
- (7) The level mud solid control is high, better effect and the measurement of mud is accurate.
- (8) The tanks are made of the corrugated boards of V type, the holistic rigidity is good and beautiful appearance.
- (9) The tanks surface is processed by sandblasting, inner tank painted with heavy anti-corrosion bituminous paint, and outside of the tank painted by the oil-proof and acid and alkali corrosion resistant paint.
- (10) Meet the requirements of removing and installation of drilling team frequently.
- (11) The system can be designed according to customers' requirements.



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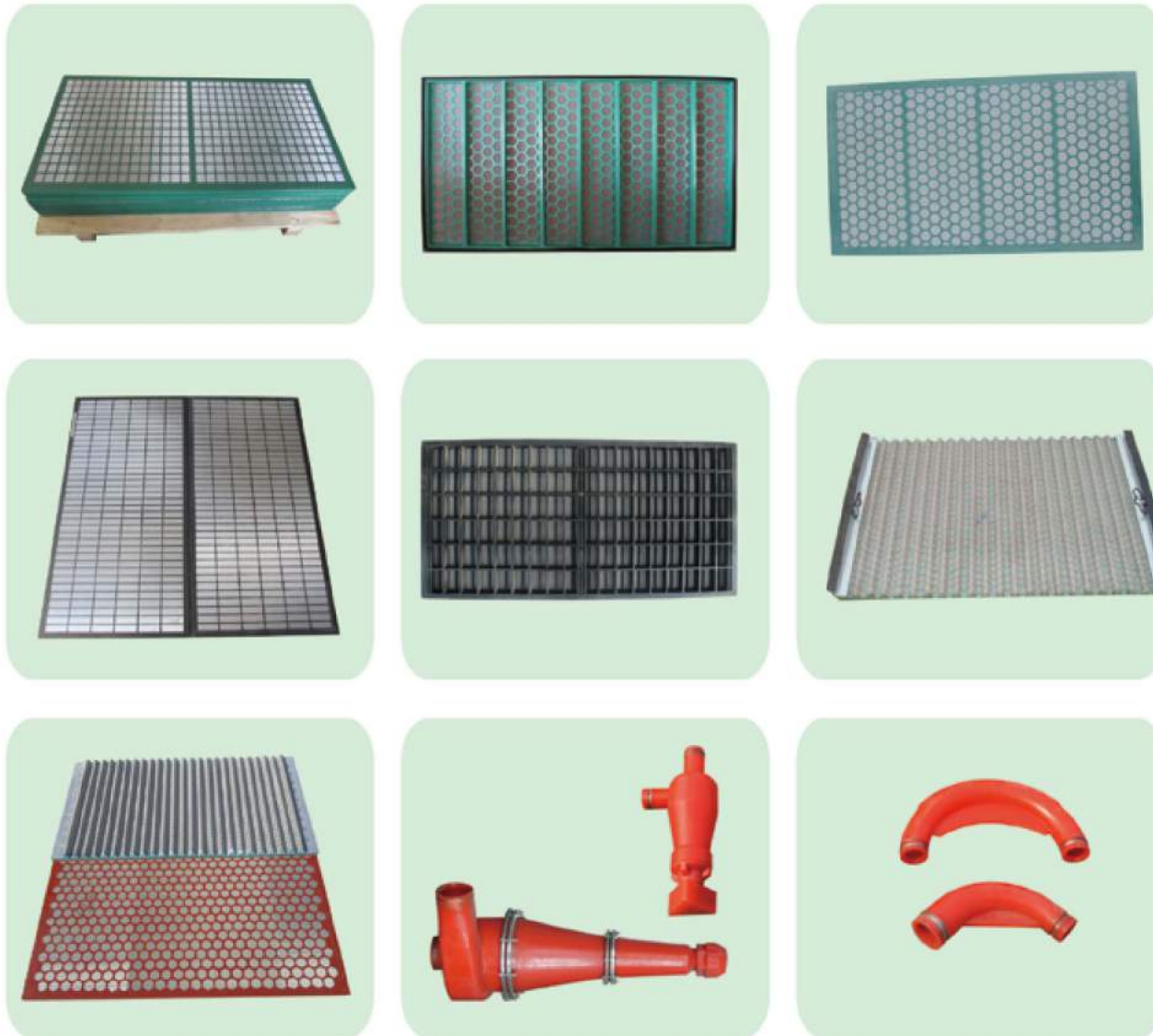
25. Shaker Screen and Hydrocyclone

Shaker screen is the key and quick-wear part of drilling fluid shale shaker, the quality of screen is directly influence the follow-up mud cleaning equipment operating and accesories cost control.

DC Shaker screen mainly has hookstrip flat, steel frame and pyramid screen.

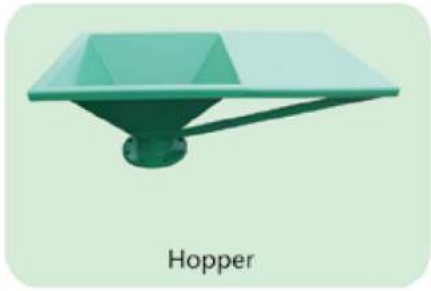
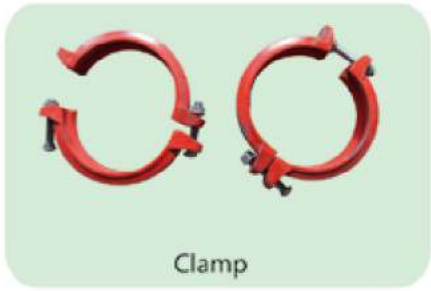
DC Shaker screen is constructed with two or three layers of stainless steel wire cloths bonded to a steel support plank, the screen has many characteristics:

- (1) Every wire cloth in the sieving screen has different meshes can make the screen has better screening effect.
- (2) Each different mesh screen is tight can improve the screen service life.
- (3) Wire cloth is divided into many independent small cloths to prevent excessive expansion of local damage.
- (4) DC hookstrip flat screens are widely used in different conditions of drilling field.
- (5) DC steel frame screen is rapidly tensioned by wedge make screen installation more convenient.
- (6) DC Pyramid screen can make the effective filtration area improve 25%-50%.



Be Great at the Quality and be Excellent in the Value

26. Accessories





***Be Great at the Quality
and be Excellent in the Value***

To guarantee the quality under the international standard and QC system, to supply distinguished equipments to the clients.

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