



Brightway®

**Drilling Rig Solids Control Equipment & System
Manufacturer & Supplier**



Xi'an Brightway Energy Machinery Equipment Co., Ltd

🌐 www.solidscontrolsystem.com

✉ brightway@bwwell.com



■ Xi'an Brightway Energy Machinery Equipment Co., Ltd

Xi'an Brightway Energy Machinery Equipment Co., Ltd (Brightway Solids Control Co., Ltd) is a professional manufacturer engaged in the research, developent, production, sale and service of solids control equipment and solids control system. We manufacture the Shale Shaker, Vacuum Degasser, Mud Cleaner, Desander Desilter, Decanter Centrifuge, Vertical Cutting Dryer, Sludge Vacuum Pump, Centrifugal Pump, Mud Agitator, Mixing Hopper, Mud Gas Separator, Mud Tank and the complete set of mud system in the industries of oil & gas drilling, horizontal directional drilling, micro tunneling, coal bed methane drilling etc.

Brightway equipment are exported to clients in more than 50+ countries and regions beside China, such as USA, Russia, Italy, Germany, France, the UAE, Morocco, Poland, Turkey, Iraq, Iran, Kazakhstan, Pakistan, Australia, New Zealand, India, Indonesia, South Korea, Thailand, Malaysia, Singapore, Taiwan, Egypt, Nigeria, Brazil, Argentina and Venezuela. and In order to provide better service to customers from the world, Brightway Company has set up branches in the USA, Russia, India.





Oil Drilling Rig Mud System

Brightway provides a complete line of solids control and waste management technologies engineered to optimize drilling efficiencies by maintaining fluid integrity, reducing fluid losses, minimizing HSE impact, and lowering drilling costs through NPT management.

As the professional solids control company, Brightway can design and manufacture mud equipment & system for 1000hp (ZJ30), 1500hp (ZJ40), 2000hp (ZJ50), 3000hp (ZJ70) drilling rigs and XJ350 XJ550 XJ750 XJ950 workover rig.

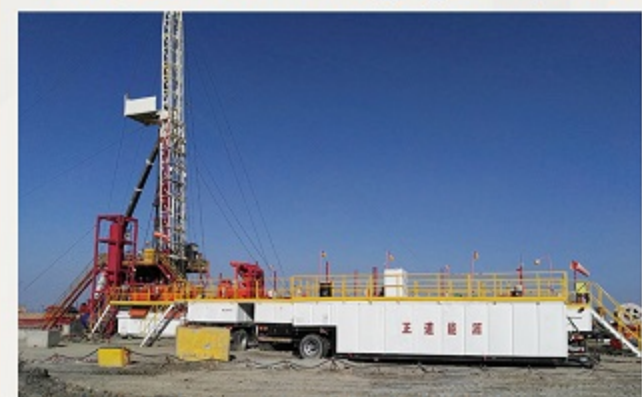
Name	Mud System Specification
Mud System Type	Skid Mounted, Trailer Mounted, Hydraulic Jack Up
Match Drilling Rig	ZJ20 ZJ30 ZJ40 ZJ50 ZJ70 ZJ90 Drilling Rig XJ350 XJ550 XJ750 XJ950 Workover Rig
Application	Oil Drilling, CBM Drilling, Shale/Gas Drilling
Equipment	Shale Shaker, Vacuum Degasser, Desander Desilter, Decanter Centrifuge, Mud Tanks, Mud Agitators, Mud Mixing Hopper, Mud Gun, Mud Gas Separator, Centrifugal Pump
Accessories	Manifold, Level Gauge, Walkways, Floating Platform, Guardrail, Explosion-proof Lamp



▲ ZJ70 3000HP Drilling Rig Mud System



▲ ZJ50 2000HP Drilling Rig Mud System



▲ XJ750 Workover Rig Mud System



■ CBM Drilling Mud System

CBM Drilling Mud System is the good solution of drilling mud control and mud cleaning. According to different geological conditions and customers' requirements, Brightway can design and manufacture different sets of Mud Systems to match with CBM Drilling Rig. We examine well programs to determine the optimum solids control program to meet specific cost, operational and environment requirements.

Advantages of CBM Drilling Mud System

1. Complete mud equipments from Brightway Factory.
2. Integrated design, small overall dimensions, small footprint and easier moving.
3. We can send our experienced engineers for installation and training up customer engineers.
4. Skid Mounted or Trailer Mounted or Hydraulic Jack Up mud recycling Tanks available for your options.





■ Liquid Mud Plant

Brightway offers a complete liquid mud plant package which includes Engineering, Procurement and Construction on site with storage tanks, drilling fluids mixing systems for Mud/Base oil/Brine with required equipment.

Brightway can fabricate & supply storage tanks, vertical tanks, rectangular tank, round tanks, the capacity 250 BBL, 500 BBL, 750 BBL, 1000 BBL, 1200 BBL, 1500 BBL as per customer requirements.

Equipment of Liquid Mud Plant

1. Storage Tanks for Base Oil, Oil Base Mud, Brine, Water, Diesel and other chemicals.
2. Mixing Tanks for Brine/Oil Base Mud of capacity 250 BBL & 500 BBL – Horizontal rectangular with Pumps, Gun Nozzles and Agitators.
3. Pressure Silos, Surge Tank, Dust collector & Cutting Bottle.
4. Radar Transmitters, Generators, Compressors, Load cells, Air Wall, Shear Mixer etc.
5. Barite Injectors, Rock Cather & Big Bag Hopper.





■ Drilling Waste Management

Brightway is the professional Drilling Waste Management Manufacturer and exporter. Brightway can design and manufacture the Drilling Waste Management Equipment and System as requirement of customers.

1. Good Result of OBM: 6%-10% Water Content.
2. Italy Technology: Overwhelmingly overcomes the difficulty in disposing the waste all or disposing them effectively, which combines the technology brought from Italy with advantages of the same products abroad.
3. Stable Performance: Brightway DWM is to control the volume of water containing in the drilling mud and stabilize the liquid performance, which achieves the purpose of managing the drilling waste and recycle the rilling mud without damaging the water performance.
4. Environmental and Economical: This cutting dryer system realizes the social value of environmental protection, maximizing the usage of drilling fluid economically.





Oil Sludge Treatment Plant

Based on the characteristics of oily sludge, the technical advantages of solid-liquid separation integration scheme, and years of experience in researching and applying of solid-liquid separation equipment system in oil field, Brightway developed the economical and efficient solution of Oil Sludge Treatment Plant.

Step 1: Through sorting equipment, the stones, weeds, roots and other debris in the oily sludge can be sorted.

Step 2: Using the heating tank equipment, stirring equipment, and dosing equipment, and making use of the different gravity of oil and water can make water fully stratified: Oil, which account for the smallest proportion, is on the top layer, Water is in the middle layer, and sand is at the bottom.

Step 3: Using three phase separation equipment, oil and water separation equipment and mud & water separation equipment can realize the three phase separation: water oil and mud; and the recovery of crude oil. The muddy water enters the mud and water separation equipment, where it can be recycled to the heating tank or further treated by the water treatment equipment.





■ HDD Mud Recycling System

Brightway designs & manufactures mud recycling system for horizontal directional drilling rig according to different geological conditions and customer's requirements, our mud recycling systems available to different models to match with HDD Rig, such as 200GPM (45m³/h), 350 GPM(80m³/h), 500GPM(120m³/h), 1000GPM(240m³/h).

The main equipments of Mud Recycling System includes: Shale shaker, Desander & Desilter, Mud hopper, Mud Mixing Tank, Centrifugal Pump.



Model	BWMRS-200	BWMRS-350	BWMRS-500	BWMRS-1000
Capacity	45m ³ /h (200GPM)	80m ³ /h (350GPM)	120m ³ /h (500GPM)	240m ³ /h (1000GPM)
HDD Rig	80-160T	160-200T	250-350T	500-800T
Mud Pump Capacity	800L/min	2000-2500L/min	2000-2500L/min	4000L/min
Total Power	45KW	45KW	100KW	150KW
Overall Size	5000×2300×2850mm	7500×2300×2950mm	9500×2000×1600mm	11500×2400×3560mm



■ Slurry Separation Plant

Brightway BWSP series Separation Plant is designed for tunneling and micro-tunneling industry, includes Tunneling, Micro-tunneling, Pipe-jacking Construction.

Advantages

1. Powerful G-forces with double-deck shakers; efficient and stable separation,
2. Well-designed cyclones for a better fine-cut even under difficult conditions, Powerful performance;
3. Field-proven screen system-durable and adjustable; Capable of handling high solids loads;
4. Modular design, easy setup and operation; ensures high speed and low costs for assembling and dismantling.



Model	Capacity	Minum Particle Size	Controlled Mud Weight	TBM OD
BWSP-3000	2500~3600m ³ /h	15um	1.15-1.3g/cm ³	15500-18000mm
BWSP-2000	1500-2000m ³ /h	15um	1.15-1.3g/cm ³	12400 mm
BWSP-1000	850-1200m ³ /h	15um	1.15-1.3g/cm ³	5500-7000 mm
BWSP-500	400~500m ³ /h	15um	1.15-1.3g/cm ³	4200 mm
BWSP-250	200~250m ³ /h	15um	1.15-1.3g/cm ³	2000-2100mm
BWSP-200	180~200m ³ /h	15um	1.15-1.3g/cm ³	1800-2000mm
BWSP-180	150~180m ³ /h	15um	1.15-1.3g/cm ³	1500-1800mm
BWSP-150	120~150m ³ /h	15um	1.15-1.3g/cm ³	1200-1500mm
BWSP-120	100~120m ³ /h	15um	1.15-1.3g/cm ³	1000-1200mm
BWSP-100	90-100m ³ /h	47um	1.3-1.4g/cm ³	—
BWSP-80	60-80m ³ /h	47um	1.3-1.4g/cm ³	—



■ Sludge Dewatering Plant

Brighway can design and supply different types sludge dewatering equipment & system and provide integrated sludge dewatering solutions, such as screw dewatering solutions, decanter centrifuge dewatering solutions.

Composition of Sludge Dewatering System

1. Sludge dewatering filter equipment: Screw Press
2. Driving reducer and motor;
3. Screw shaft
4. Sludge mixing tank,
5. Electronic control device
6. Dosing device.

Features of Sludge Dewatering System

1. Simple to operate, Easy to control, Low power consumption, Simple maintenance, High safety coefficient.
2. Less vulnerable parts, high wear resistance.
Compared to other dewatering equipment such as press filter, sludge dewatering system do not need to change the filter often.
3. Low requirements for operating conditions, strong adaptability to operating conditions, It is suitable for dewatering of sludge under various complicated working conditions.





■ Drilling Mud Cooler

Brightway can manufacture Air-cooled and water-cooled types drilling mud cooler. the capacity is 60-240m³/h. Brightway Drilling Mud Cooler can reduce the mud temperature by 30-40°C which has high cooling efficiency and fast cooling speed, small footprint, continuous work.



Water Cooling System		Mud System	
Inlet (Water) Dimensions	2.5 inches	Inlet Dimensions	6 inches (DN150)
Outlet (Water) Dimensions	3 inches	Outlet Dimensions	5 inches (DN125)
Generator Type	Explosion-proof	Generator Type	Explosion-proof
Voltage	Customize	Power	45kw
Power	22kw	Flux	318m ³ /h
Flux	160m ³ /h	Number of nozzles	4
Radiator	2.5 inches	Pipe Volume	2423m ³
Number of Radiators	36×0.57 inches	Copper Cooling Area	189571m ²
Driving Mode	Direct Drive	Inlet and Outlet Temperature	50-60°C



Solid Liquid Separation Integration Solution Pioneer & Leader

Brightway[®]

Xi'an Brightway Energy Machinery Equipment Co., Ltd

☎ +86-29-89305761

✉ brightway@bwwell.com

🌐 www.solidscontrolsystem.com

🌐 www.brightwaysolids.com

📍 No. 1 Zhengdao Road, Runzhen Industrial Park, Chunhua County,
Xianyang City, Shaanxi Province, China