

Cutting-DTH Integrated Drilling Rig A Weapon for Coal Mine Drilling

Hailed as “a weapon for coal mine drilling”, the equipment is integrated with the advantages of both Sunward excavators and rock drilling rigs, and can be used for multiple purposes. It has the high-speed cutting and percussion drilling function, and can also realize the functions of an excavator through an excavator working device.

Higher Working Efficiency and More Economical

- ◎ 360° slew of upper-structure and large in drilling range in initial positioning, hence less movement of the equipment for positioning and a much higher working efficiency;
- ◎ A high-speed large-torque rotary rock drilling method unique in the industry, with a very high working efficiency for soft rock formations;
- ◎ Easy drilling in hard rock formations with the strong power supplied for percussion drilling by the screw air compressor of a high air pressure and a large air rate;
- ◎ Propulsion and lifting speeds set at Operating Gear and Fast Gear to reduce the auxiliary time ;
- ◎ SWAH series drilling rigs, faster in drilling and consuming less air .

More Comfortable

- ◎ A wide and comfortable cab;
- ◎ A large front glass and the sunroof, providing a wide view for operations;
- ◎ A delicately arranged pilot type operating handle;
- ◎ A 7" LCD equipped, to clear display the operation parameters and states
- ◎ A luxury control panel, consisting of: switch panel, electronic throttle, USB interface...
- ◎ A Denso air conditioner equipped for hot summers .

More Intelligent

- ◎ A simple but robust roof anti-collision retainer equipped, to effectively prevent fugitive dust. A novel electronic monitoring system equipped for real-time display of parameters such as fuel level, water temperature, hydraulic oil temperature, exhaust temperature, maintenance alert;
- ◎ Fault self-diagnosis and alarm, provide solutions immediately;
- ◎ Precise angle detection, timely display and accumulation of drilling depth, and intelligent bottom hole control ;
- ◎ Self-adaptive drilling of rock strata, to reduce the possibility of drill jamming and the wear and tear of drills;
- ◎ Sunward Cloud (an Internet of Things) provided.

More Reliable

- ◎ Power head and the drilling rig effectively rocteted by a buffer mechanism;
- ◎ Reinforced thread surface and oil mist lubrication of drill pipe, leading to a longer service life;
- ◎ Core components of international established brands, engine - Cummins, main pump - KYB, main valve - KYB, and rotary motor - KYB;
- ◎ Boom supporting forgings, to improve the stress distribution
- ◎ A reinforced platform of a larger bearing capacity.

More Adaptable to Working Conditions

- ◎ A reinforced chassis with a large ground clearance and a strong off-road capability, to improve the traveling stability;
- ◎ A Cummins engine, highly adaptive to plateau conditions and different oils ;
- ◎ An engine cold start device equipped as a standard feature, very adaptive at low temperatures;
- ◎ An intelligent temperature control system that can adjust the heat dissipation according to the ambient temperature, highly adaptive to the environment.

Safer

- ◎ Railings mounted on the roof and in front of the cab;
- ◎ Emergency stop switches provided, to stop the equipment under emergencies;
- ◎ A fire extinguisher provided in the cab and on the drill body respectively ;
- ◎ HP air duct locks provided;
- ◎ An explosion-proof valve equipped for the oil cylinder, to safeguard the safety .

More Environmentally Friendly

- ◎ An efficient two-stage dry dust collector or a HP large-flow wet dust collector may be equipped, as different geological conditions may require;
- ◎ A simple but robust roof anti-collision retainer equipped, to effectively prevent fugitive dust .



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Technical Parameters of Cutting Rig SWDR138					
Operation parameters				Propulsion	
Drilling range	mm	105~165		Total length of propulsion girder	mm 8200
Drill pipe diameter	mm	76、 89、 102		Maximum propulsion	kN 50
Drill pipe length	m	4、 5		Engine	
Maximum hole depth	m	24、 35		Model	QSB7~C187
Upper-structure slewing	°	360		Power	kW/rpm 140/2050
Slewing power head				Fuel tank	L 750
Slewing speed	rpm	200		Air compressor	
Slewing torque	Nm	4000		Working pressure	Mpa 2
Traveling capability				Displacement	m ³ /min 18.6
Traveling speed	km/h	34.5/5.6		Power	kW/rpm 194/1800
Maximum traction force	kN	160		Overall dimensions	
Gradeability	°	25		Weight	kg 24000
Ground clearance	mm	480		LxWxH (working)	m 12.3x3.4x8.8
Ground pressure	bar	0.5		LxWxH (transportation)	m 14.8x3.4x3.5