

Open-pit Hydraulic Drill Carriage

□ Open-pit hydraulic drill carriage is designed according to the operating conditions of small and medium-sized quarries and small open-pit mines, and is mainly used for drilling hard and medium-hard (F10 and above) rocks.

- ◆ It can be used for rock blasting and drilling in the construction of quarries, civil works, road projects, open-pit mines and hydropower plant, etc.
- ◆ This product is equipped with a high-efficiency hydraulic rock drill, with fast drilling rate, low energy consumption, flexible maneuverability and strong gradeability. It can be used for drilling operations in complex terrain.



Low operating costs

- ◆ The high-power hydraulic rock drill with reverse drilling function minimizes the probability of sticking.
- ◆ The intelligent identification of rock stratum attributes prevents sticking and idle drilling, extending the service life of drilling tools.
- ◆ The reasonable power matching of rock drill-air compressor-engine further reduces fuel consumption.
- ◆ Constant power control.
- ◆ Self-adaptation of operation status.

Good adaptability to working conditions

- ◆ Dual operation mode, one-click switching between economic and intensive mode.
- ◆ Small and flexible body with compact structure, strong gradeability and good terrain adaptability.
- ◆ Folding arm structure with large coverage area in single positioning.
- ◆ Meeting the drilling requirements of vertical, inclined and horizontal blasting holes.

High reliability

- ◆ Core components of international famous brands are selected, and the system design is reasonably matched.
- ◆ The product has withstood the tests of high temperature of 45°C in Laos, high altitude of 4,500m in Qinghai Province, China, and extreme low temperature of -30°C in Inner Mongolia, China.
- ◆ The cold-drawing structure steel propulsion beam with double-sided guide rails is adopted, with high strength and good pilot accuracy.

More intelligent

- ◆ The intelligent monitoring system displays real-time operation parameters and maintenance tips.
- ◆ The self-diagnosis fault system displays code prompt and provides quick solution.
- ◆ The intelligent common-bottom control system accurately control the drilling angle and depth.
- ◆ The self-adaptive drilling to rock strata reduces the sticking and the loss of drilling tools.
- ◆ Sunward Cloud, the IoT control system, provides synchronous data transmission on APP and displays real-time construction progress.
- ◆ Path planning, hole sequence planning, graphic guidance, and fast positioning.

Safety and environmental protection

- ◆ Cab with ROPS & FOPS certification.
- ◆ Interlocking of operation and adjustment mode.
- ◆ Automatic fire extinguishing system.
- ◆ Dry dedusting covering large filtration area.

Item		SWDH102S	
Main parameters			
Hole diameter	mm	76-115	
Rod	-	T45/T51	
Tube length	mm	3660	
Maximum hole depth	m	25	
Dust collector	-	Dry dust removal	
Hydraulic rock drill			
Model	-	HC150E	
Impact power	kW	21	
Slewing torque	Nm	885	
Slewing speed	rpm	0-150	
Air compressor			
Working pressure	bar	10	
FAD	m ³ /min	10	
Engine			
Brand	-	CUMMINS	CAT
Model	-	QSC8.3-C240-30	C7.1
Power rating	kW/rpm	179/2200	168/2200
Fuel tank volume	L	450	
Feed system			
Total length	mm	7300	
Feed extension	mm	1200	
Pitch angle	°	140	
Turning angle	°	-20-90	
Feed force	kN	30	
Drill boom			
Type	-	Folding boom	
Lifting angle	°	70~10	
Folding angle	°	65-165	
Swing angle	°	20~-30	
Carrier			
Tramming speed	km/h	4.2	
Traction force	kN	110	
Gradeability	°	25	
Track oscillation	°	±10	
Ground clearance	mm	425	
Dimension			
Weight	kg	15000	
L × W × H (work)	m	9.2×2.6×8.6	
L × W × H (Transportation)	m	11.2×2.6×3.5	