## SUNWARD SWDH115S DTH Drilling Rig

# TOP-HAMMER SURFACE DRILLING RIG

□Top-hammer Surface Drilling Rig 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,
- $\bullet \text{ The reasonable power matching of rock drill-air compressor-engine further reduces fuel consumption.}$
- ◆ 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,
- lacktrianglet 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

### 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.

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Item		SWDH102S		SWDH115S
Main parameters				
Hole diameter	mm	76-115		89-127
Rod	-	T45/T51		T51
Tube length	mm	3660		3660
Maximum hole depth	m	24		24
Dust collector	-	Dry dust removal		Dry dust removal
Hydraulic rock drill				
Model	-	HC150E		HC160Q
Impact power	kW	21		21
Slewing torque	Nm	994		1612
Slewing speed	rpm	0-129		0-130
Air compressor			•	
Working pressure	bar	10		10
FAD	m³/min	10		12.8
Engine			•	
Brand	-	CUMMINS	CAT	CUMMINS
Model	-	QSC8.3-C240	C7.1	QSL8.9-C325
Power rating	kW/rpm	179/2200	168/2200	242/2100
Fuel tank volume	L	450		590
Feed system				
Total length	mm	7300		7300
Feed extension	mm	1200		1200
Pitch angle	0	140		140
Turning angle	0	-20~90		-20~90
Feed force	kN	30		30
Drill boom			•	
Туре	-	Folding boom		Folding boom
Lifting angle	0	70~-10		70~-10
Folding angle	0	65~165		65~165
Swing angle	0	20~-30		20~-30
Carrier			•	
Tramming speed	km/h	3.8		3.2
Traction force	kN	110		110
Gradeability	0	25		25
Track oscillation	0	±10		±10
Ground clearance	mm	400		400
Dimension			•	
Weight	kg	15000		16500
L × W × H (work)	m	9.2×2.6×8.6		9.5×2.6×8.6
L × W × H (Transportation)	m	11.2×2.6×3.5		12×2.6×3.5