

CUTTING AND DTH DRILLING RIG (EXCAVATOR CHASSIS)

Combining the advantages of excavator and rock drilling rig, the product has the functions of high-speed cutting and percussion drilling



Higher operation efficiency and better economy

- ◆The 360° rotation of the upper body effectively improves the working efficiency.
- ◆The two-speed propulsion mode features less auxiliary time and high comprehensive efficiency.
- ◆Reliable down-the-hole impactor and powerful air compressor ensure efficient and stable operation.
- ◆The integrated down-the-hole/cutting dual function adapts to various rock strata, that is, down-the-hole mode for hard rock stratum and cutting mode for soft rock stratum, effectively reducing operation cost.
- ◆The quasi-constant power hydraulic system control saves more fuel.
- ◆The autonomous identification of working status prevents sticking and improves operation efficiency.

Higher reliability

- ◆The buffering mechanism effectively protects the power head and drilling tools.
- ◆The enhanced thread and aerosol lubrication ensures a longer service life of the drill pipe.
- ◆Core components of international famous brands are selected, and the system design is reasonably matched.
- ◆Boom supports forging to improve stress distribution.
- ◆Reinforced platform has strong carrying capacity.

Better adaptability to working conditions

- ◆Universal excavator chassis, large ground clearance and strong off-road capability.
- ◆The power system has strong adaptability to plateau and oil products.
- ◆The standard low-temperature startup and intelligent temperature control system has good low-temperature adaptability.
- ◆Large slewing torque of the power head and strong pulling force of the heavy chain propulsion system can easily deal with adverse rock strata.

Safer and greener

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

Better adaptability

- ◆The panoramic cab, spacious and comfortable, features wide field of view and suspension seat.
- ◆Anti-vibration and noise isolation, superior to industry standards.
- ◆Air conditioner is equipped, not afraid of cold and hot weather.

Item		SWDR152B	SWDR165B	SWDR180B
Main parameters				
Hole diameter	mm	105-165	138-180	138-203
DTH hammer	"	4、5	5、6	5、6、7
Tube diameter	mm	76、89、102	89、102、114	102、114
Tube length	m	5m×6	5m×6	5m×6
Maximum hole depth	m	30	30	30
Upper frame rotation angle	°	360	360	360
Dust collector	-	Dry (standard) water mist (optional)		
Air compressor				
Working pressure	bar	21	25	25
FAD	m³/min	20.5	28.1	29.7
Engine				
Brand	-	Cummins	Cummins	Cummins
Model	-	QSL8.9-C360-30	X12CS3375	X12-C500-T0
Power rating	kW/rpm	264/2100	336/1800	373/2100
Fuel tank volume	L	790	1000	1000
Feed system				
Total length	mm	9800	9800	9800
Feed force	kN	50	50	50
Carrier				
Tramming speed	km/h	3.5/5.6	3.5/5.6	3.5/5.6
Traction force	kN	200	200	200
Gradeability	°	25	25	25
Ground clearance	mm	480	480	480
Rotary head				
Rotation speed	rpm	0-200	0-200	0-200
Torque	Nm	5000	5000	5500
Dimension				
Weight	kg	28000	29000	29000
L × W × H (work)	m	10.7×3.7×9.8	11.6×3.9×9.8	11.6×3.9×9.8
L × W × H (Transportation)	m	15.6×3.0×3.6	15.6×3.1×3.6	15.6×3.1×3.6