

Light Integrated Down-the-hole Drilling Rig

Two-stage screw air compressor is adopted, which is suitable for rock drilling operations in open-pit coal mines, metal mines and limestone mines.



Reliable air supply

◆The heavy-duty two-stage compression screw main machine from international famous brand is designed with unique sealing groove lines at the root and crest of the rotor teeth, which minimizes the internal leakage of the rotor and can provide sufficient displacement and pressure, leading to small shaft power and low energy consumption.

Steady power

◆Turbocharged engine has stable and strong power and low fuel consumption, meeting China IV standards in terms of energy saving and environmental protection.

Intelligent fuel saving

◆The intelligent control system accurately controls the compressor system according to the actual working conditions and significantly reduces fuel consumption.

Automatic drill pipe connecting/disconnecting

◆The automatic drill pipe connecting/disconnecting device, which is efficient and fast, reduces the labor intensity of operators and improves work efficiency and safety performance.

Efficient dust suppression

◆The two-stage dry-type dedusting effectively reduces dust pollution, protects the environment and decreases the risk of occupational diseases for workers.

Easy maintenance

◆The gull-wing side door provides spacious maintenance space, and the maintenance and adjustment positions of the engine, compressor and hydraulic system are within easy reach.

Convenient transfer

◆Single-tooth track has excellent grip performance, showing good traveling performance in rainy and snowy days and scum environment.

Item		SWDE120Q	SWDE152Q	SWDE165Q
Main parameters				
Hole diameter	mm	90-115	90-152	140-165
DTH hammer	"	3.5、 4	3.5、 4、 5	5、 6
Tube diameter	mm	76	76	76/89
Tube length	m	3m × 7	3m × 7	3m × 7
Maximum hole depth	m	21	21	21
Dust collector	-	Dry (standard) water mist (optional)		
Air compressor				
Working pressure	bar	18	20	21
FAD	m³/min	15	19	24
Engine				
Brand	-	YuChai	YuChai	YuChai
Model	-	YCA07260-T300	YCK09360-T301	YCK09400-T301
Power rating	kW/rpm	194/2200	265/2200	295/2200
Fuel tank volume	L	500	500	500
Feed system				
Total length	mm	6500	6500	6500
Feed extension	mm	1000	1000	1000
Compensation stroke	mm	3950	3950	3950
Feed force	kN	17	17	17
Pitch angle	°	140	140	140
Turning angle	°	-30~90	-30~90	-30~90
Drill boom				
Lifting angle	°	50~-30	50~-30	50~-30
Swing angle	°	L46 R30	L46 R30	L46 R30
Carrier				
Tramming speed	km/h	1.8/3.6	2/4.2	2/4.2
Gradeability	°	25	25	25
Track oscillation	°	±10	±10	±10
Rotary head				
Rotation speed	rpm	0-110	0-110	0-110
Torque	Nm	3400	3800	3800
Dimension				
Weight	kg	11000	13000	13000
L × W × H (work)	m	5.9×3.1×7.0	5.9×3.1×7.0	5.9×3.1×7.0
L × W × H (Transportation)	m	7.6×2.55×3.3	7.6×2.75×3.3	7.6×2.75×3.3