

DIESEL-ELECTRIC INTERGRATED DTH DRILLING RIG

With the diesel-electric dual power,traveling is driven by diesel engine,which is flexible:poeration is derven by electricity,which saves more energy



Higher operation efficiency and better economy

- ◆ 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 customized special vehicle transformer features low voltage drop, stable and safe low energy consumption.
- ◆ 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.
- ◆ Reinforced platform has strong carrying capacity.

Better adaptability to working conditions

- ◆ 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.
- ◆ Electrical components are dust-proof, moisture-proof and vibration-resistant, with a protection grade of IP65.

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		SWDA165C	SWDA200C	SWDE165C
Main parameters				
Hole diameter	mm	138-180	180-230	138-180
DTH hammer	"	5、 6	6、 8	5、 6
Tube diameter	mm	110、 133	146	102、 114
Tube length	m	8.5m×3	10m×3	6m×6
Maximum hole depth	m	25	30	36
Dust collector	-	Dry (standard) water mist (optional)		
Air compressor				
Working pressure	bar	21	24	24
FAD	m³/min	28.3	30.3	30.3
Engine				
Brand	-	Cummins	Cummins	Cummins
Model	-	QSB4.5-C130-30	QSB4.5-C130-30	QSB4.5-C130-30
Power rating	kW/rpm	97/2200	97/2200	97/2200
Fuel tank volume	L	200	200	200
Electric Motor Max. power	kW	344	374	374
Feed system				
Total length	mm	11500	14000	10520
Feed extension	mm	1800	1800	1300
Feed force	kN	75	75	45
Carrier				
Tramming speed	km/h	3.2	3.2	3.2
Traction force	kN	180	180	180
Gradeability	°	25	25	25
Ground clearance	mm	480	480	480
Rotary head				
Rotation speed	rpm	0-105	0-65	0-65
Torque	Nm	6500	8000	5500
Dimension				
Weight	kg	28500	31500	32600
L × W × H (work)	m	9.6×4.7×11.5	9.6×4.7×15.5	10.6×4.6×10.6
L × W × H (Transportation)	m	11.5×3.6×3.5	15.5×3.6×3.5	13.8×3.5×4.2