

SITON

DL4

Production Drilling Rig



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DL4 production drilling rig is developed for long hole mining. It can drill holes with diameter from 64mm to 89mm and maximum 41m deep. The suitable cross-sections (width x height) is from minimum 3.8m x 3.8m to maximum 5.3m x 5.3m.

Woserld Rock Drill

With high pressure and low flow hydraulic system. The Woserld rock drill delivers high penetration rates in hard rock (< F17) and low drilling steel consumption. With the classic double damping design the service life is long and the cost is low. 22kw rock drill is standard, and higher power 25kw rock drill is optional.



Advanced Control System

Drill rod angle indicator on the operating panel shows small deviation of the rod positioning. It guarantees the long hole drilling quality. The automatic rod anti-jamming and return system can protect rock drill and drill tools.

Rod Handling System

Rod handling system can extend and remove the rods automatically. The rods handler capacity is 21+1 pcs. The rod handling system relieves operators from heavy lifting work and is therefore an essential feature for maintaining high productivity.

Flexible Boom Design

The positioning unit of the boom can do 360° ring drilling and parallel drilling within the width of 3 m.



Note: This picture is for reference only. Different or optional configuration will make it look different.

Rock drill		
Model	A22L/D	A25L
Shank	T38/T45	T45/T51
Hole diameter (mm)	33-76	76-115
Max. Impact power (Kw)	22	25
Impact rate (Hz)	73	44
System pressure (bar)	250	230
Rotation motors	Independent rotation	
Rotation speed (rpm)	0-215	0-135
Max. Rotation Torque (Nm)	1000	1550
Lub. air consump.(L/s)	5	5
Weight (Kg)	174	195
Noise dB(A)	<106	<106
Note: Other models are available		

Feed		
Model	TF18-5A	TF18-6A
Total Length (mm)	3446	3751
Drilling rod length (mm)	1525	1830
Propulsion force Kn	15	15
Rod handler capacity (optional)	21+1	21+1
Hole depth(m)	34.5	41.5
Hole diameter (mm)	64-89	64-89

Boom and positioning

Propelling compensation.....1200mm

Feed roll-over.....360°

Boom up/down.....20°/-65°

Slide stroke.....1500mm

Swing boom parallel moving stroke.....1500mm

Stinger backward stroke..... 2000 mm

Stinger forward stroke.....1150mm

Feed positioning: digital display screen

Control way:wired/wireless

Control system

Electric remote control system

Function:Anti-jamming and anti-idle impact

Hydraulic system

Hydraulic pump for impact, positioning and propulsion

Hydraulic pump for rotary oil unloading start

Max system pressure.....230bar

Volume of Hydraulic oil tank.....165L

Low oil level indicator with shutdown function

Oil tank with oil temperature gauge, temperature switch

Filtration accuracy.....10μm

Oil filtration indicator

Stainless steel water cooler for hydraulic oil

Manual oil filling pump

Mineral-based hydraulic oil

Air compressor system

Type.....screw

Motor power.....5.5KW

Maximum displacement.....11.6 L/S

Working pressure.....8 Bar

Water system

Type.....Centrifugal

Motor power.....3KW

Maximum flow.....80 L/min

Maximum working pressure25bar

Electrical system

Total Installed power.....	83.5KW
Main motor power.....	75 KW
Voltage.....	380V
Frequency.....	50HZ
Starting method.....	Star/traingle
Thermal overload protection for electric motors	
Impact timer	
Digital voltage/current meter	
Phase sequence indicator	
Ground fault indicator	
Battery charger.....	600W
Transformer.....	1500VA
Electrical cable volume.....	100m

Chassis

Engine.....	Weichai
Rated power.....	62.5KW
Torque.....	320Nm
Fixed seat	
Articulated steering angle.....	±38°
four-wheel drive	
Hydrostatic Power Steering System	
Hydrostatic transmission	
Front axle.....	wet type
Rear axle.....	wet type
Tyre.....	12.00-20
Departure angle.....	19°
Approach angle.....	26°

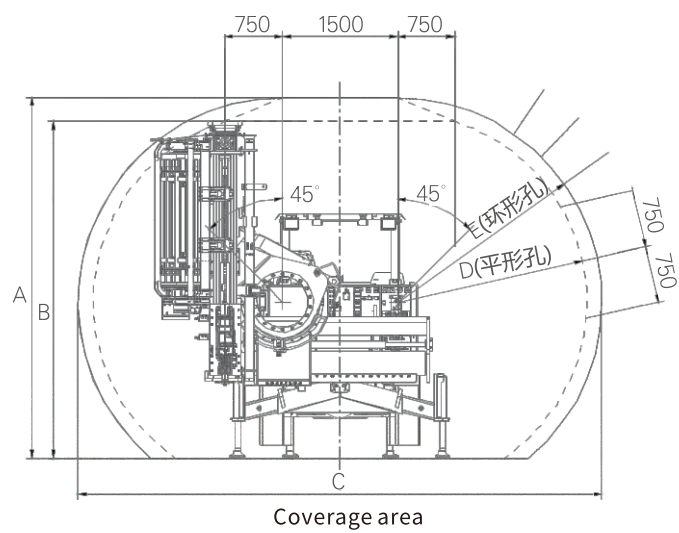
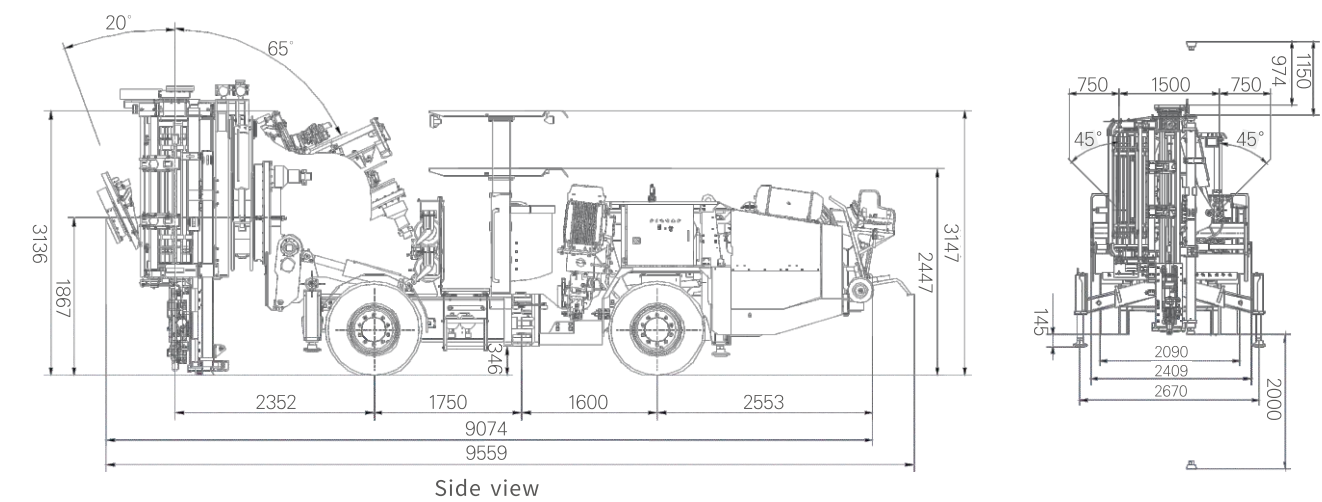
Front hydraulic Outrigger.....	2pcs (extensible)
Rear hydraulic Outrigger.....	2pcs
Parking braking	
Emergency and parking brake	
Fuel tank volume.....	60L
Electrical system voltage.....	24V
Battery.....	2*120Ah
Tramming lights.....	8*LED
Brake lights	
Central lubrication system	
Catalytic converter/silencer	
Fire extinguisher	
Pneumatic grease gun	
Car washing gun	
Spirit level	
Max. Working gradient.....	14°
Traveling speed.....	14Km/h
Horns, warning lights and reversing alarms	

Optional Part

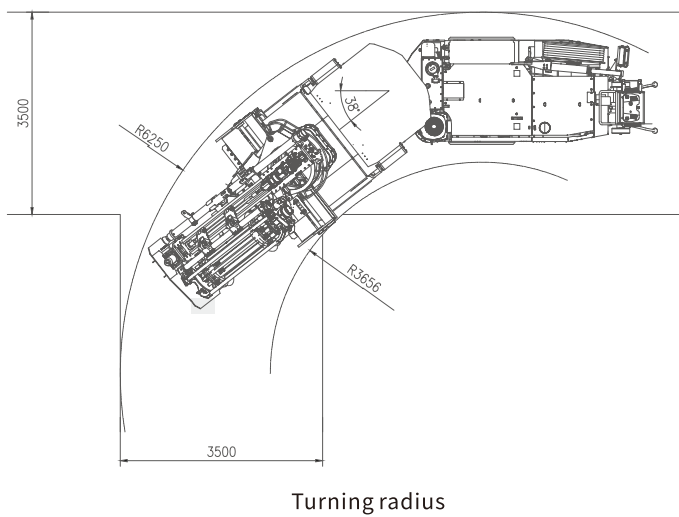
Rod handler capacity	21+1 pcs
Plateau type for over 3000m high altitude	
Automatic fire extinguishing system , multi spraying nozzles	

Note: This data sheet is for reference only. Due to different or optional configuration, Siton reserves the right to make changes to the information without prior notification to users.

Measurements



	Drill rod 1525mm	Drill rod 1830mm
A(mm)	5000	5305
B(mm)	4700	5005
C(mm)	6832	7442
D(mm)	2472	2777
E(mm)	2666	2971



Dimensions	
L×W×H(mm)	9074 (9350) /2409/2318 (3018)
Ground clearance(mm)	346
Weight Kg	17600
Turning Radius mm	3656/6250
Traveling speed Km/h	13



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