

SITON

DT1-14

Crawler Face Drilling Rig



DT1-14 Crawler Face Drilling Rig

DT1-14 crawler face drilling rig is specially designed for narrow drifts or ramp with big gradient over 15° to 28°. The suitable cross-sections (width x height) is from minimum 2.2m x 2.2m to maximum 5.8m x 4.6m.

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. 18kw or 10kw rock drill is optional.



Hydraulic System

By using Danfoss/Rexroth plunger pump control system, the hydraulic system is reliable and long lifetime. The automatic rod anti-jamming and return system can protect rock drill and drill tools.

Parallelism Boom

The boom of DT1-14 can do 360° rotation and delivers large and optimally shaped coverage with automatic parallelism for fast and accurate face drilling.

Extra Long Boom (optional)

Equipped with extra long boom, the maximum cross-sections (width x height) is 6m x 5.5m.



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

Rock drill		
Model	A18D/L	M10B/D
Shank	T38	R32
Hole diameter (mm)	38-76	32-64
Max. Impact power (Kw)	18	10
Impact rate (Hz)	60	53
System pressure (bar)	230	160
Rotation speed (rpm)	0-215	130
Max. Rotation Torque (Nm)	1070	482
Lub. air consump.(L/s)	5-7	5
Weight (Kg)	175	103
Rotation motors	Independent rotation	

Feed		
Model	Z19C.1E	TF28-10R
Total Length (mm)	5310	4450
Drilling rod length (mm)	3700	3090
Drilling depth(mm)	3350	2700
Weight (including rock drill) kg	560	480
propel force(KN)	15	7.5

Boom

Propelling compensation.....2000/1500mm
 Parallel holding All directions
 Feed roll-over.....±360°
 Scope of work (W*H)..... 5800*4600mm

Control system

Direct hydraulic control system

Function:Anti-jamming

Hydraulic system

Hydraulic pump for impact, positioning and propulsion

Hydraulic pump for rotary oil unloading start

Max system pressure.....230bar

Hydraulic front outrigger

Volume of Hydraulic oil tank.....120L

Filtration accuracy.....10µm

Oil filtration indicator

Stainless steel water cooler for hydraulic oil

Manual oil filling pump

Air compressor system

Type/Model.....Piston type

Motor power.....3KW

Maximum displacement.....360 L/min

Working pressure.....5 Bar

Water system

Type/Model.....Centrifugal type

Motor power.....3Kw

Maximum flow.....63 L/min

Maximum working pressure25bar

Electrical system

Total Installed power.....61KW
Main motor power.....55 KW
Voltage.....380V
Frequency.....50HZ
Starting method.....Star /Triangle
Thermal overload protection for electric motors
Impact timer
Digital voltage/current meter
Phase sequence indicator
Ground fault indicator
Battery charger.....600W
Transformer.....1000VA
Electrical cable volume.....50m

Chassis

Engine.....Cummins
Rated power.....45KW
Torque.....270NM
Fixed seat
Hydrostatic Power Steering System
Hydrostatic transmission
Fuel tank volume.....40L
Electrical system voltage.....12V
Battery.....120Ah
Tramming lights.....4*LED
Catalytic converter/silencer
Max. Working gradient.....20°
Traveling speed.....2.1/1.1Km/h
Horns, warning lights and reversing alarms

Optional Part

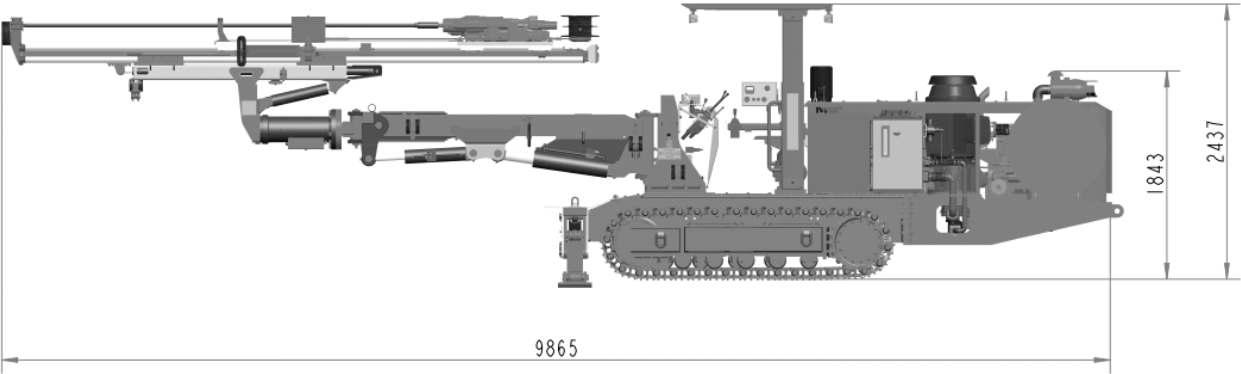
Rock drill	M10B/D	A18D/L
Main electric motor	37KW	55KW
Total installed power	43KW	61KW

Telescopic feed

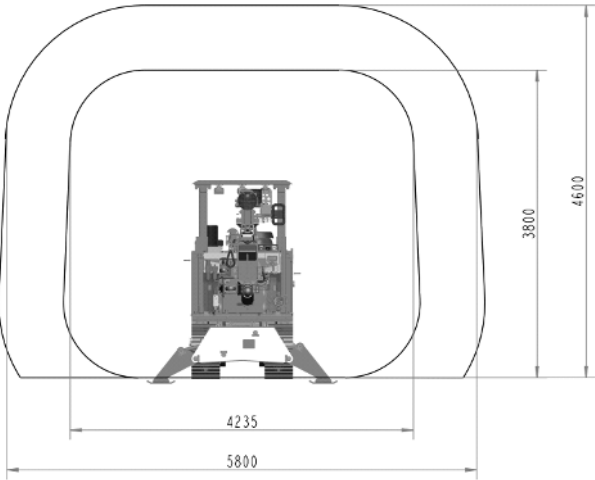
Plateau type for over 3000m high altitude

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

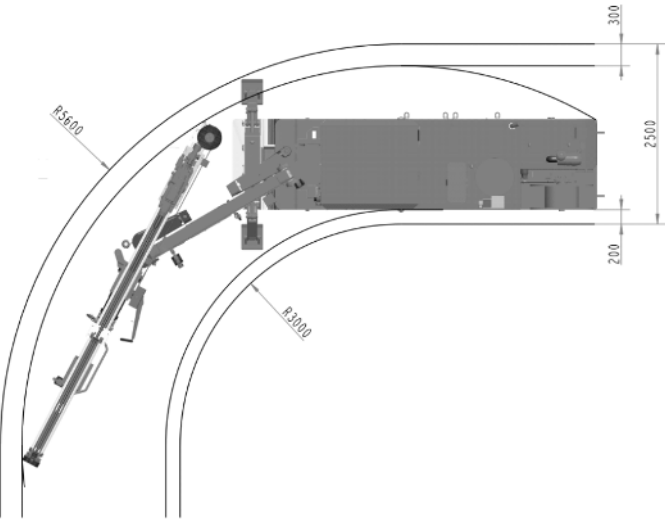


Side view



Coverage area

Dimensions	
L×W×H(mm)	9865×1250×1845/2437
Ground clearance(mm)	200
Total weight Kg	10300
Turning Radius mm	3000/5600
Traveling speed Km/h	2.1/1.1



Turning radius



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