

# SITON

## DS2

Rock Bolting Rig



# DS2 Rock Bolting Rig

DS2 rock bolting rig with long boom design is developed for using in various drift sizes from small to medium. It can install most common rock bolts like split set or resin bolts from 1.5m to 2.5m length. The suitable cross-sections (width x height) is from minimum 3m x 2.8m to maximum 5.6m x 5.1m.

## Versatile Bolting Head

DS2 Bolting head can be customized for using split set bolts only, or resin bolts only, or combined both bolts. The bolts handler capacity for split set is 10 pcs, resin is 10 pcs, and combined both is 6 pcs split set + 6 pcs resin at the same time. Also resin conveying system and mesh handling arm are equipped on bolting head, by working together they can complete the meshing, drilling and bolting processes consistently and quickly.

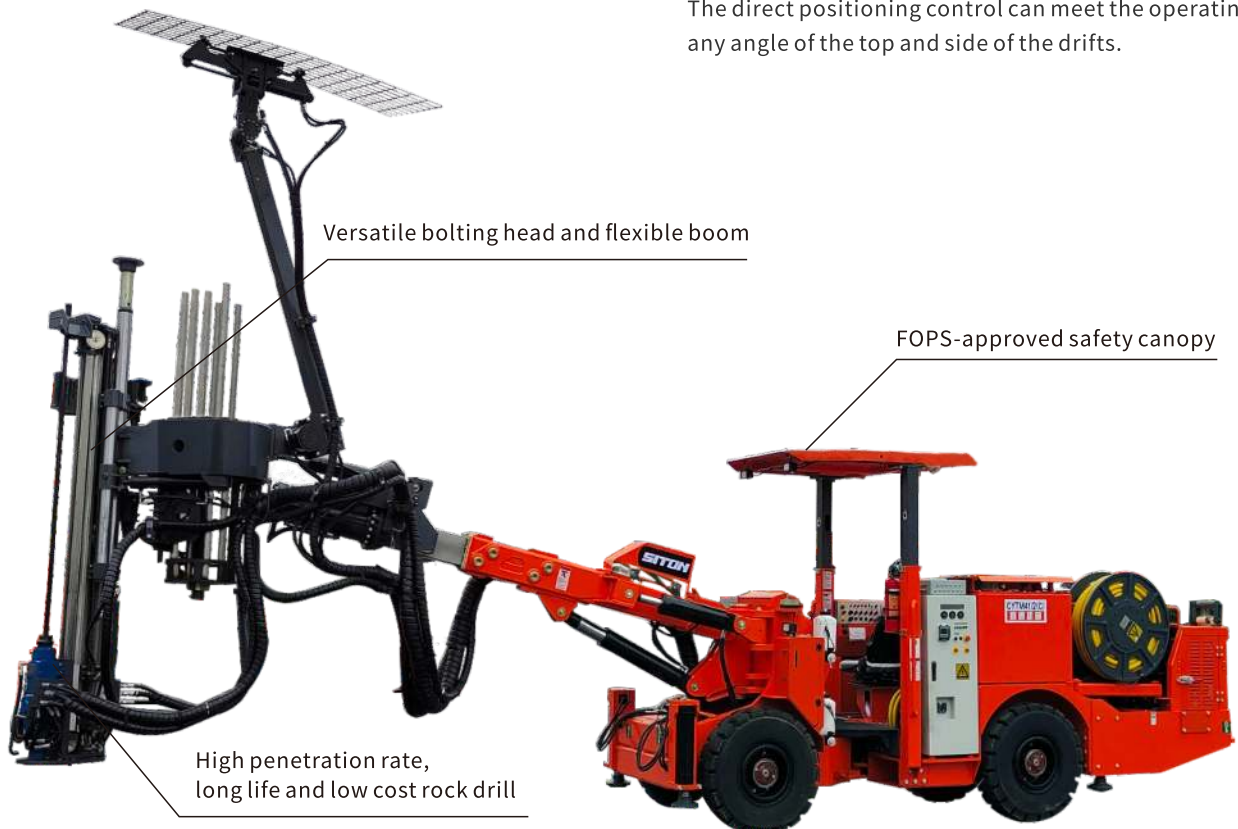
## Woserld Rock Drill

Specialized rock drill for bolting is designed in short length, big power and high stability. 8kw rock drill is standard, and higher power 10kw rock drill is optional.



## Flexible Boom Design

DS2 boom is specially designed for bolting. It can rotate by 360°, and the upward and downward holes can be drilled. The direct positioning control can meet the operating of any angle of the top and side of the drifts.



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

| Rock drill                       |                      |        |
|----------------------------------|----------------------|--------|
| Model                            | M8B/D                | M10B/D |
| Shank                            | R32                  | R32    |
| Hole diameter (mm)               | 32-51                | 32-64  |
| Max. Impact power (Kw)           | 8                    | 10     |
| Impact rate (Hz)                 | 55-65                | 53     |
| System pressure (bar)            | 15                   | 16     |
| Rotation motors                  | Independent rotation |        |
| Rotation speed (rpm)             | 300                  | 300    |
| Max. Rotation Torque (Nm)        | 401                  | 482    |
| Lub. air consump.(L/s)           | 5                    | 5      |
| Weight (Kg)                      | 71                   | 103    |
| Noise dB(A)                      | 120                  | 120    |
| Note: Other models are available |                      |        |

| Feed and bolting head |                               |           |           |
|-----------------------|-------------------------------|-----------|-----------|
| Model                 | BU25                          | BU25F     | BU25D     |
| Rock drill model      | M8B/D                         | M8B/D     | M8B/D     |
| bolt length (mm)      | 1800                          | 2000      | 2200      |
| Bolt type (optional)  | Split Set/Resin/Combined both |           |           |
| Bolt handler capacity | 10/10/6+6                     | 10/10/6+6 | 10/10/6+6 |
| Drill rod length (mm) | 2175                          | 2475      | 2700      |
| Hole depth (mm)       | 1950                          | 2185      | 2460      |
| Propel force KN       | 7.5                           | 7.5       | 7.5       |
| Total length mm       | 2870                          | 3165      | 3395      |

## Mesh handling arm

Extension stroke.....1000mm  
 Drive method.....hydraulic  
 Handling method.....hydraulic cylinder

## Boom

Propelling compensation.....410mm  
 Boom extension.....1200mm  
 Feed roll-over..... + /-180°

## 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.....220bar  
 Volume of Hydraulic oil tank.....180L  
 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  
 Mineral-based hydraulic oil

## Air compressor system

Type.....screw type  
 Motor power.....5.5KW  
 Maximum displacement.....11.6 L/S  
 Working pressure.....8 Bar

## Water system

Type.....Centrifugal type  
 Motor power.....1.5KW  
 Maximum flow.....50L/min  
 Maximum working pressure .....25bar

## Electrical system

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|                                                 |               |
|-------------------------------------------------|---------------|
| Total Installed power.....                      | 62W           |
| 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                                 |               |
| Transformer.....                                | 300VA         |
| Electrical cable volume.....                    | 85m           |

Parking braking

Emergency and parking brake

Fuel tank volume.....60L

Electrical system voltage.....12V

Battery.....120Ah

Tramming lights.....3\*LED

Central lubrication system

Catalytic converter/silencer

Fire extinguisher

Pneumatic grease gun

Car washing gun

Spirit level

Max. Working gradient.....14°

Traveling speed.....9Km/h

Horns, warning lights and reversing alarms

## Chassis

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|                                   |                   |
|-----------------------------------|-------------------|
| Engine.....                       | Yanmar            |
| Rated power.....                  | 56.5KW            |
| Rotary seat                       |                   |
| Articulated steering angle.....   | ±38°              |
| four-wheel drive                  |                   |
| Hydrostatic Power Steering System |                   |
| Hydrostatic transmission          |                   |
| Tyre.....                         | 10.00-15          |
| Departure angle.....              | 15°               |
| Approach angle.....               | 20°               |
| Front hydraulic Outrigger.....    | 2pcs (extensible) |
| Rear hydraulic Outrigger.....     | 2pcs              |

## Optional Part

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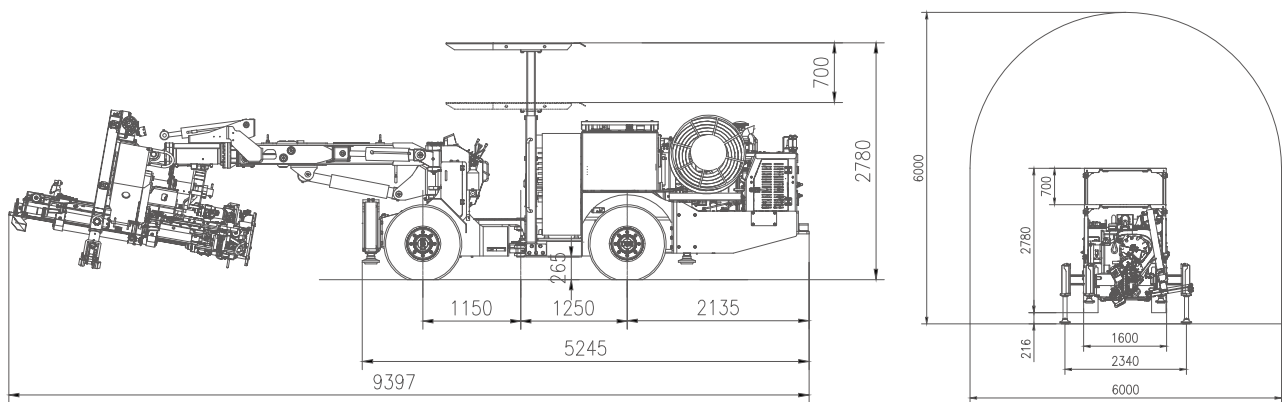
Diesel engine: Yanmar 56KW / Cummins 53KW

Bolting head: split set / resin / combined both

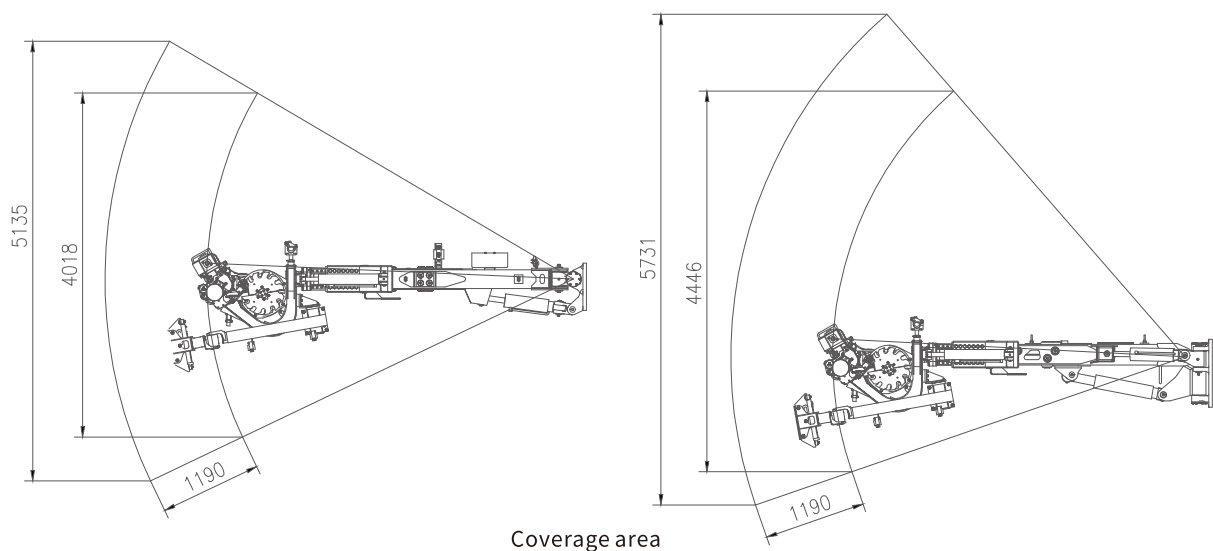
Plateau type for over 3000m high altitude

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.

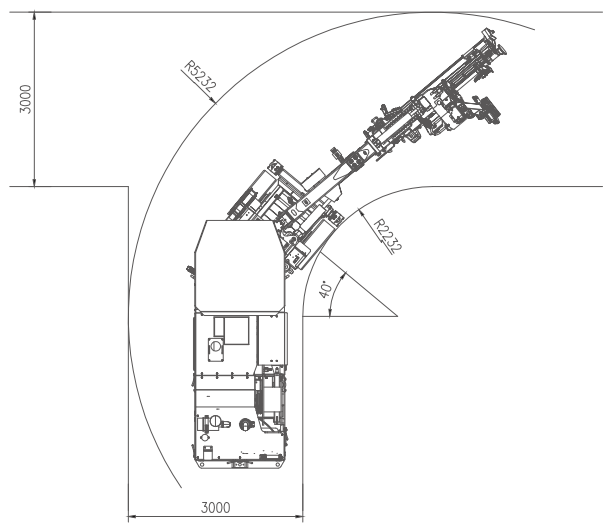
Measurements



Side view



Coverage area



Turning radius

| Overall dimension    |                     |
|----------------------|---------------------|
| L×W×H(mm)            | 9397x1600x2080/2780 |
| Ground clearance(mm) | 265                 |
| Weight Kg            | 12500               |
| Turning Radius mm    | 2232/5232           |
| Traveling speed Km/h | 9                   |



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