

# Boltec S

Fully mechanized bolting rig developed for installation of rock bolts from 1.5 to 2.4 m in smaller drive dimensions





# Making mining safe

Boltec S is a fully mechanized rock bolting rig suitable for installation of a range of bolt types from 1.5 to 2.4 meters in length. Though developed for smaller drive dimensions, it can install bolts in heading heights up to 7.5 metres.

## ⊕ Main benefits

**Optimized for smaller drive sizes** with 100 mm reduced feed length whilst retaining the same bolt lengths as earlier bolting units

**Superior penetration rate** with the light-weight high frequency rock drill COP RR11

**Easy maintenance with an open service architecture** thanks to a four-wheel drive carrier which is the same as on Simba S7 and Boomer S1

Optional ROPS and FOPS certified cabin



The bolt magazine can be loaded in the vertical position without power to the machine, providing a fast and safe loading procedure.



For larger hole diameters required for some friction bolt types or harder rock conditions, the optional COP RR14 delivers the hitting power needed to get the job done.



The common carrier with its siblings, Simba S7 and Boomer S1, makes maintenance of Boltec S fast and easy.

Short dead length

Automated bolting tool retraction and indexing over to drilling mode at completion of bolting



# Mechanized bolting

Safety and quality of bolt installation is our focus. The standard and optional features of the Boltec M ensures operator safety, comfort and guarantees a job well done.



### + Safety

Mechanized bolting removes the operator from the potentially dangerous areas of unsupported ground. All drilling and bolt installation is controlled from the operator station under a FOPS certified canopy or optional ROPS and FOPS certified air conditioned cabin.



### + Bolt installation quality

Mechanized bolting typically holds a much higher installation quality and consistency than manual or semi-mechanized installation. Bolt angles, bolt spacing, controlled grout ratios, installation pressures, and bolt numbers are just some of the data that can be collected or recorded.



### + Operator comfort

The operator position affords excellent visibility of the bolting operation as well as when tramming the vehicle. The operator area is spacious and features a swingable operator seat for driving and bolting. The optional ROPS and FOPS air conditioned cabin enhances the operator's comfort especially in extreme temperatures or dusty conditions.



## A comprehensive service offering

Even the best equipment needs to be serviced regularly to make sure it sustains peak performance. An Epiroc service solution offers peace of mind, maximizing availability and performance throughout the lifetime of your equipment. We focus on safety, productivity and reliability.

By combining genuine parts and an Epiroc service from our certified technicians, we safeguard your productivity – wherever you are.

## Technical specifications

● = Standard   ○ = Option

### Drilling system

COP RR11	●
COP RR14	○
Hole blowing kit	●
Water flushing – external water supply (hydraulic oil cooled by water)	●
Air-water mist flushing – external water, internal air supply (hydraulic oil cooled by air fan)	○
Rock drill lubrication warning kit	●

### Boom

BUT 32	●
Automatic boom lubrication - rear part of the boom	○

### Bolting unit

Magazine capacity 10 bolts	
Size of face plates, rectangular, diameter, max 150x150 mm	
Size of face plates, round, diameter, max Ø 200 mm	
Bolt length, max 1.5-2.4 m	
Swellex, Mn 12, Mn 16, Mn 24	○
Split-set, SS39, SS46	○
Mechanical anchored bolts (expanding shell)	○
Split wedge	○
Rebar bolts – manual resin/cement cartridges	○
Extension system for injection hose for resin cartridges	○
Dual bolt lengths - shorter bolt 70% the length of longer bolt	○
Dual bolt types	○
Extension drilling kit	○

### Hydraulic system

Low oil level indicator	●
Oil temperature meter	●
Filtration 16 µm	●
Oil filter indicator	●
Mineral hydraulic oil	●
Electric oil filling pump	●
Biodegradable hydraulic oil	○
Hydraulic oil leakage shut down system	○
Hydraulic oil thermostat	●
Ni-Cr plated piston rods (limitations exist)	○

### Control system

Rig Control System (RCS)	●
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### Electrical system

Total installed power 80 kW, main motors 75 kW*	○
Total installed power 66 kW, main motor 55 kW**	○
Voltage 380-1 000 V	●
Frequency 50 Hz*	○
Frequency 60 Hz**	○
Soft start (380-690 V)	○
Transformer 5 kVA	●
Electronic overload protection for electric motors	●
Stainless steel electrical enclosure	○
Digital volt/ampere meter in electrical cabinet	●
Phase sequence and earth fault indicator	●
Battery charger	●
Cable reel with limiting switch	●
Electric outlet for accessories, 16 Amp (voltage = main supply voltage if no extra transformer is chosen. Not for 1 000 V)	○

\* If running in 50 Hz 75 kW motor is required  
\*\* If running in 60 Hz 55 kW motor is required

### Air/water system

Compressor: Atlas Copco GAR5	
Hydraulic water booster pump capacity at 12 bar, 66 l/min	
Minimum water inlet pressure 2 bar	
Water hose reel, including water hose	○

### Carrier

Deutz D914 L04, EPA III/COM III, Stage IIIA/Tier 3, 55 kW	●
Deutz BF4 L 914, Stage II/Tier 2, 72 kW	○
Deutz TD 3.6 L04, Stage V, 55 kW	○
Deutz TCD 3.6 L04, CN4, 65 kW	○
Electric heater for hydraulic oil tank, electric motors and diesel engine	○
Articulated ±40° steering angle	●
Four wheel drive	●
Electrical system 24 V	●
Batteries 2x12 V, 70 Ah	●
Automatic differential lock on front axle, limited slip	●
Tires 9.00xR20	●
Clearance outside axles rear 15°	●
Front and rear hydraulic jacks	●
Fuel tank volume 60 l	●
Central lubrication system	●
Tramming lights 6x40 W LED + 2x70 W halogen	●
Working lights, mounted on roof 3x35 W, 24 V HID	●
Boot washing kit	●
Illuminated stairs for platform	○
Central grease point	●
Fire suppression system ANSUL - manual release	○
Fire suppression system ANSUL - automatic release (checkfire)	○

### Cabin (option)

ROPS and FOPS approved airconditioned cabin, noise level <80 dB(A)	●
Mediaplayer	●
12 V outlet	●
Electrical heater, 1.2 kW, 230 V (CE)	○
Swingable seat for drilling and tramming	●
Manual spotlight, left and/or right	●
Low-designed cabin, for seated operator cabin height 2 655 mm	○
Front window, 16 mm	●
Front window, 24 mm	○
FOPS certified grizzly bar for front window	○

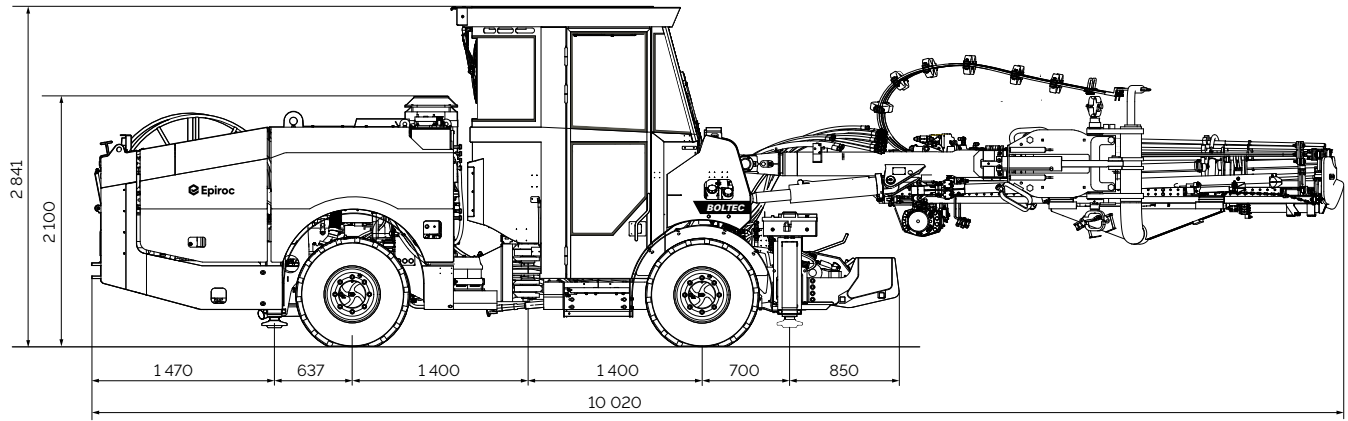
### Protective roof

Swingable seat for drilling and tramming	●
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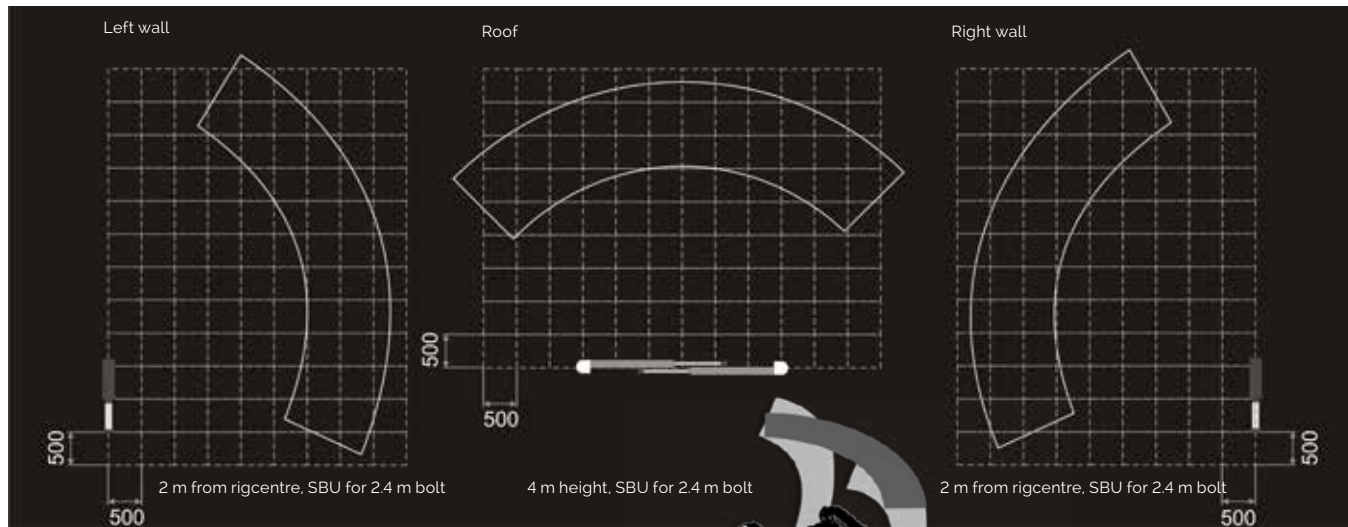




## Technical specifications



Dimension illustration (optional equipment mounted).



Coverage area (2.4 m bolts).

### Weight

Total	13 700 kg
Boom side	9 000 kg
Engine side	4 700 kg

### Tramming speed

On flat ground (rolling resistance 0.05)	>15 km/h
On incline 1:8	>5 km/h

### BUT 32 boom

Feed extension	0-400 mm
Boom extension	1 250 mm
Feed roll-over	240°
Max. lifting angle	+70°/-30°
Max. swinging angle	±45°
Weight, boom only	2 550 kg

### Dimensions

Width	2 115 mm
Height, roof down	2 100 mm
Height, roof up	2 841 mm
Cabin height (option)	2 841 mm
Lowered cabin height (option)	2 691 mm
Length, tramming	10 020 mm
Ground clearance	365 mm
Turning radius outer/inner	5 200 mm/ 2 780 mm

### Recommended cable sizes and lengths

Voltage	Dimension, mm²	Diameter	Length
380-400 V	3x70+3G16+2x1.5	37 mm	110 m
440 V	3x70+3G16+2x1.5	37 mm	110 m
500-525 V	3x70+3G16+2x1.5	37 mm	110 m
550-575 V	3x50+3G6+2x1.5	32 mm	150 m
660-690 V	3x35+3G6+2x1.5	28 mm	200 m
1 000 V	3x35+3G6+2x1.5	28 mm	200 m

Recommendations are given for surrounding temperature of 40°C and altitude of 2 000 m.





## United in performance. Inspired by innovation.

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