

# Boltec E

Fully mechanized rock bolting rig for bolt lengths from 2.4-6 meters, effective in roof heights up to 13 meters





# Making mining safe

Boltec E is a fully mechanized rock bolting rig suitable for installation of a range of bolt types from 2.4 to 6 meters in length. Developed for medium to large sized tunnel profiles, it can install bolts in roof heights up to 13 meters.

## ⊕ Main benefits

**Optimized bolting unit** with reduced feed length which gives potential for reduced drive sizes whilst retaining the same bolt lengths used previously

**Rock drills optimized for bolt hole drilling** with the options of COP RR11 and COP RR14

**Easy maintenance with an open service architecture** thanks to a four-wheel drive carrier which is common with the Simba M/E and the Boomer M/E machines

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



The bolting unit on the Boltec E has been optimized to reduce the overall feed length by 100 mm when compared to earlier bolting unit designs.



The COP RR11 rock drill is optimized for bolt hole drilling. For larger hole diameters required for some friction bolt types the optional COP RR14 is suitable.



The Boltec E series machines share a common four wheel drive articulated carrier design with their Simba M/E and Boomer M/E stablemates.

Optional mesh handling arm

Optional FOPS certified cabin with lift/tilt function



# Safe bolting with quality in focus

Safety and quality of bolt installation is our focus. The standard and optional features of Boltec E 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  
A = Boltec E   B = Boltec E Battery

Rock drill	A	B
COP RR11	●	●
COP RR14	○	○
Rock drill lubrication, air dryer system	○	○
Air-water mist flushing, external water, internal air, hydraulic oil cooled by air fan	○	○
Air-water mist flushing, external water, internal air, hydraulic oil cooled by water	○	○
Air-water mist flushing, internal water, internal air, hydraulic oil cooled by air fan	○	○
Rock drill lubrication warning kit	●	●
Rock drill lubrication surveillance system	●	●
Hole blowing kit	●	●
Boom	A	B
BUT 45 M	●	●
BUT 45 S	○	○
Automatic boom lubrication system, rear part	○	○
Central boom lubrication kit	○	○
Bolting unit	A	B
Magazine capacity 10 bolts		
Size of face plates, rectangular, diameter, max 150 x 150 mm		
Size of face plates, round, diameter, max Ø 200 mm		
Bolt length, max 2.4-6.0 m		
Swellex, Mn 12, Mn 16, Mn 24	○	○
Split-Set, SS39, SS46	○	○
Mechanical anchor bolts, CT, Kiruna, including boltrotator	○	○
Rebar - manual resin / cement cartridge, including boltrotator	○	○
Rebar - resin cartridge injection system, automatic, including boltrotator	○	○
Rebar - Cement injection system, automatic mixing with bulk cement silo 1 000 kg	○	○
Self Drilling Anchor (SDA) bolts, R28, R32 (with pumpable resin system)	○	○
Hollow bar bolts, R25, R28, R32 (with pumpable resin system)	○	○
Hose injection system for resin cartridges	○	○
Dual bolt lengths - shorter bolt 70% the length of longer bolt	○	○
Dual bolt types	○	○
Extension drilling kit	○	○
Welded screen mesh handling arm	○	○
MESHA rolled mesh handling arm	○	○
Bolting camera	○	○
Pumpable resin system	○	○
Electrical system	A	B
Total installed drilling power 63 kW (Auto cement, 83 kW)	●	●
Main motors 55 kW (Auto cement, 75 kW)	●	●
Voltage 380-1 000 V	●	●
Frequency 50 Hz	○	○
Frequency 60 Hz	○	○
Soft start (380-690 V)	○	○
Transformer 8 kVA	●	●
Transformer for charging 100 kW		●
Electronic overload protection for electric motors	●	●
Digital volt/ampere meter in electrical cabinet	●	●
Phase sequence and eart fault indicator	●	●
Battery charger	●	●
700 V Battery 280 Ah		●
Cable reel with limiting switch	●	●
Electrical outlet, main supply voltage 16 Amp 3-phase (16 A or 32 A socket size) - not for 1 000 V	○	○
Extra transformer 3-phase 15 kVA capacity with 230 V and 400 V outlet (16 A or 32 A socket size)	○	○
PC4 or PC5 plug/socket	○	○
PC4 or PC5 plug/socket	●	●
Spotlight, 1 x 70 W, 24 V	●	●
Illuminated stairs for platform (LED)	●	●
Soft start of main electrical motor (not for 1 000 V or CSA)	○	○

Air/water system	A	B
Hydraulically driven screw compressor Atlas Copco GAR5		
Hydraulic water booster pump capacity at 7 bar, 80 L/min		
Minimum water inlet pressure 2 bar		
Water flow and pressure guard for flushing water		
Electric driven water booster pump, max capacity at 15 bar boost 300 L/min. Minimum water inlet, 2 bar at 200 L/min*		○
Water hose reel, including water hose	○	○
High pressure washing kit	○	○
Remote controlled water cannon	○	○
Hydraulic system	A	B
Low oil level indicator	●	●
Oil temperature meter	●	●
Filtration 16 µm	●	●
Oil filter indicator	●	●
Mineral hydraulic oil	●	●
Electric oil filling pump	●	●
Biodegradable hydraulic oil	○	○
Water/oil cooler in stainless steel	●	●
Hydraulic oil thermostat	●	●
Hydraulic oil leakage detection and shut-down system	○	○
Hydraulic oil fine particulate and water filtration system (not in conjunction with bulk cement system)	○	○
Control system	A	B
Rig Control System (RCS)	●	●
Bolt angle indication	○	○
Bolt Quality Log (BQL)	○	○
Bolt plan navigation	○	○
Rig Remote Access (RRA)	○	○
Carrier	A	B
Deutz TCD 2013 L4 120 kW 4 cylinder Tier 3 / Stage IIIA diesel engine	●	
Deutz TCD2012 L6 155 kW 6 cylinder Tier 3 / Stage IIIA diesel engine	○	
Deutz TCD 41 115 kW 4 cylinder Tier 4 final / Stage IV diesel engine	○	
Deutz TCD 61 180 kW 6 cylinder Tier 4 final / Stage IV diesel engine	○	
Traction motor, 150 kW		●
Articulated ±40° steering angle	●	●
Four wheel drive	●	●
Hot climate tramming kit	○	○
Electrical system 24 V	●	●
Batteries 2x125 Ah	●	●
Automatic differential lock on front axle, limited slip	●	●
Tyres, 14.00 R24 Michelin	●	●
Clearance outside axles rear 16"	●	●
Front and rear hydraulic jacks	●	●
Fuel tank volume 4 cylinder engine 110 L	●	
Fuel tank volume 6 cylinder engine 175 L	○	
Central lubrication system	●	●
Tramming lights, rear 4x40 W LED	●	●
Tramming lights, rear 2x40 W LED + 2x70 W Halogen	●	●
Working lights 2x320 W LED 24V DC	●	●
Illuminated stairs for platform	○	○
Central grease point	●	●
Fire extinguisher	●	●
Fire suppression system ANSUL – manual release	○	○
Fire suppression system ANSUL – automatic release (checkfire)	○	○
Fire suppression system ANSUL – automatic release with CO <sub>2</sub> in electrical cabinet	○	○
E-Tramming (4-cylinder engine)	○	
E-Tramming (6-Cylinder engine)	○	
Electric hydraulic/diesel hydraulic drilling capability	○	

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Cabin	A	B
ROPS and FOPS certified cabin, noise level <80 dB(A)	●	●
Low profile cabin ROPS and FOPS 150 mm lower than standard - seated operation only	○	○
Cabin height fixed, lowered 140 mm from standard	○	○
Cabin height fixed, raised 250 mm from standard	○	○
Medioplayer	●	●
12 V outlet for communication radio	●	●
Electrical heater, 1.2 kW, 230 V (CE)	○	○
Electrical heater, 10 kW, 700 V DC (CE)	○	○
Reversing camera with monitor	○	○
Air conditioning unit	●	●
Heating function for air conditioning (water transferred)	○	○
Swingable seat for drilling and tramming	●	●
Cabin body made of stainless steel	○	○
Joystick-controlled spotlights left and/or right, 70 W	○	○
FOPS-approved grizzly bar for front window	○	○
Cabin lift/tilt function (FOPS)	○	○

Tramming speed

On flat ground (rolling resistance 0.05)*	>15
On incline 1:8	>5

\* Electric driveline >12 km/h

Dimensions	
Width, without bolt rack	2 501 mm
Height, cabin fixed ROPS and FOPS standard	3 183 mm
Height, protective roof, adjustable FOPS	2 433-3 133 mm
Height, cabin lift/tilt function, FOPS	3 098-3 473 mm
Length tramming SBU2400	15 683 mm
Ground clearance	375 mm
Turning radius outer/inner	7 500/4 750 mm

Weight	A	B
Total	30 800 kg	32 800 kg
Boom side	16 800 kg	16 800 kg
Engine side	14 000 kg	16 000 kg

Recommended cable sizes and lengths

Voltage	Dimension, mm²	Diameter, mm	Length, m
400 V	33x185+3G35+2x1.5	53.5-56	90
440 V	3x150+3G25+2x1.5	48.5-52	100
460-500 V	3x120+3G25+2x1.5	42-46.5	120
500-550 V	3x95+3G16+2x1.5	39-42	150
660-690 V	3x70+3G16+2x1.5	34-37	180
1 000 V	3x50+3G10+2x1.5	29-32	200

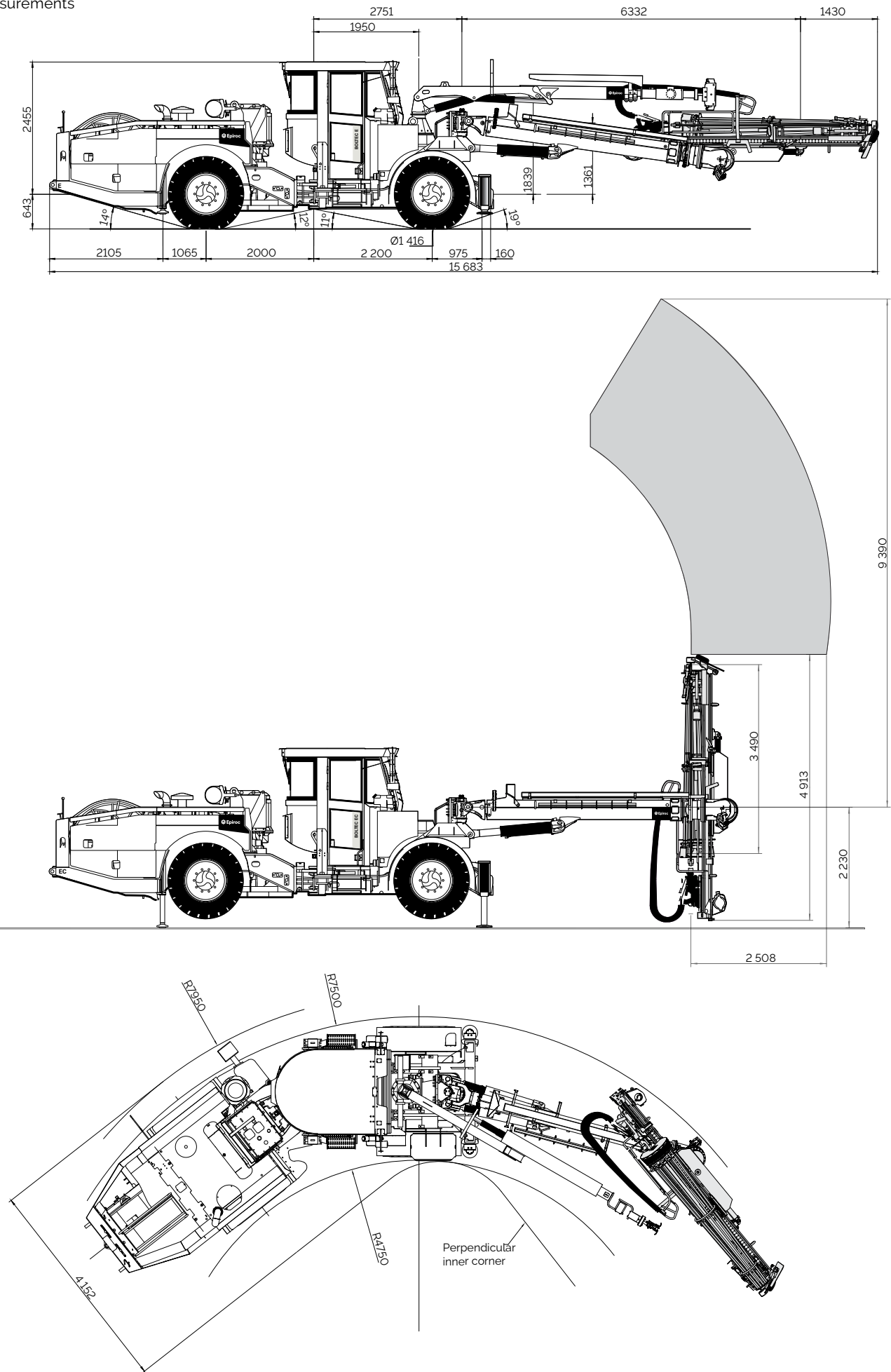
Recommendations are given for surrounding temperature of 40°C and up to a height of 2 000 m. Cable dimension for battery version depends on charging cycle.



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Measurements





## United in performance. Inspired by innovation.

Performance unites us, innovation inspires us, and commitment drives us to keep moving forward. Count on Epiroc to deliver the solutions you need to succeed today and the technology to lead tomorrow.

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