

# Boltec M10 S and E10 S

Smart and Green series

Fully mechanized rock bolting rigs with smart and productivity increasing features



# Invest in safety for everyone in the mine

The new Boltec comes in two versions, M10 S and E10 S, designed to give increased productivity and bolt installation quality thanks to intelligent options and compatibility with different bolt types. Thanks to a new operator control panel, reduced noise levels and better visibility, operator ergonomics are also improved.

## + Main benefits

**Increased productivity and bolt installation quality** thanks to intelligent options and compatibility with different bolt types

**Improved operator ergonomics** thanks to a new operator control panel, reduced noise levels and better visibility

**Flexibility** with the ability to handle different types of bolts, mesh and installation methods as well as optional diesel hydraulic or battery-electric driveline, radial and face bolting capability and extension drilling capability



SBU (Small Bonting Unit)

Robust BUT 45 boom.

Separate mesh handling arm.

ROPS and FOPS certified cabin

## + Safety, comfort and productivity in focus



Eyes on task at all times with two-level control panel.



Excellent bolt installation quality and consistency with the optional pumpable resin system.



The optional zero-emission battery drive-line improves operator working conditions and decreases the environmental footprint.

## + The future is electric

We are leading the change towards sustainability in mining through battery electric, zero-emission equipment. The result is a safer and healthier underground working environment. This contributes to a sustainable future and a smaller environmental footprint. It is a power change that changes everything.

# Safety, productivity and flexibility

Operator safety and quality of bolt installation is our focus. The standard and optional features of Boltec M10 S and E10 S ensures operator safety, comfort and guarantees a job well done.



## + Increased productivity

With Self Drilling Anchor (SDA) bolts and the pumpable resin option, the door is open for single and multiple bolt auto installation, bringing forth the ability to bolt during shift change and breaks where the machine would otherwise be standing idle.



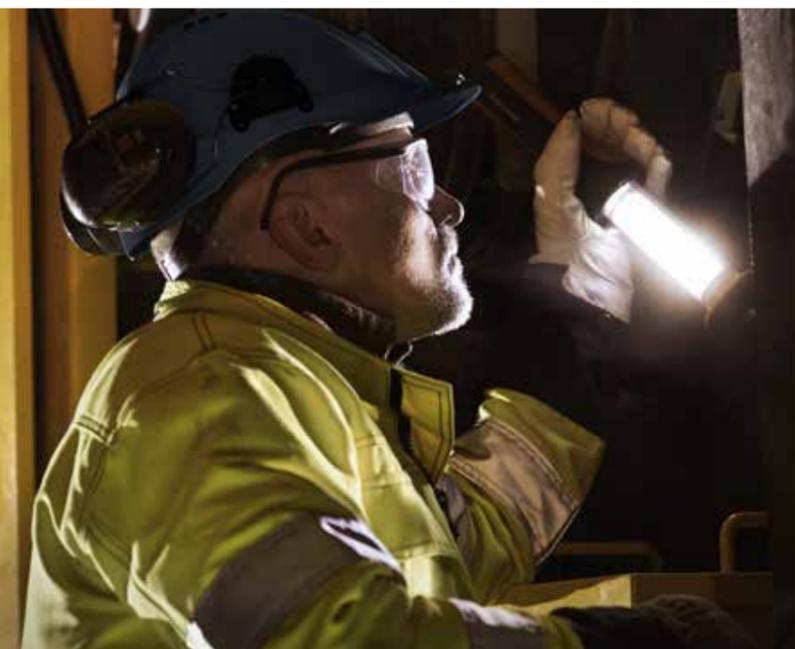
## + Operator safety and comfort

The new operator cabin features many upgrades and improvements compared to previous models. The Carrier Control System (CCS) is ergonomic and gives the operator excellent visibility when tramming. Improved insulation means record low noise levels of 65 dB(A) during operation. The air conditioning system features HEPA filtration and automatic temperature adjustment. A control panel with dual multi-functional joysticks enables the operator to keep eyes on task at all times.



## + Flexibility

The Boltec M10 S and E10 S feature a wide variety of compatible installation methods and bolt types such as split set, point anchor rebar, swellex, resin cartridge rebar, cement cartridge rebar, cement grouted rebar, SDA + pumpable resin, hollow bar + pumpable resin and Kiruna bolt. The optional separate mesh handling boom can handle rolled mesh as well as sheet mesh.



## 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 M10 S B - Boltec E10 S

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	●	●
Hole blowing 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 Boltec M10: 2.1-3.5 m		
Bolt length Boltec E10: 2.1-6.0 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 1000 kg	○	○
Self Drilling Anchor (SDA) bolts, R28, R32 (pumpable resin system required)	○	○
Hollow bar bolts, R25, R28, R32 (pumpable resin system required)	○	○
Extension drilling kit	○	○
Welded screen mesh handling arm	○	○
MESHA rolled mesh handling arm (prepared for MESHA)	○	○
Bolting camera	○	○
Pumpable resin system	○	○

Control system	A	B
Rig Control System (RCS)	●	●
Bolt angle indication	○	○
Bolt Quality Log (BQL)	○	○
Bolt plan navigation	○	○
Rig Remote Access (RRA)	○	○
Single bolt auto (SDA and pumpable resin required)	○	○
Telemote operation	○	○

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 earth 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	○	○
Spotlight, 1 x 70 W, 24 V	●	●
Soft start of main electrical motor (not for 1 000 V or CSA)	○	○

Boom	A	B
BUT 45 M		○
BUT 45 S	●	●
Automatic boom lubrication system, rear part	○	○
Central boom lubrication kit	○	○

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	●	●
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)	○	○

Carrier	A	B
Deutz TCD 2013 L04, Stage IIIA/Tier 3, 120 kW	●	
Deutz TCD 2012 L06, Stage IIIA/Tier 3, 155 kW		●
Deutz TCD 4.1, Stage V/Tier 4 final, 115 kW	○	
Deutz TCD 6.1, Stage V/Tier 4 final, 180 kW		○
Deutz TCD6.1 L06, CN4, 129 kW	○	○
Traction motor, 150 kW *	●	●
Articulated ±38° steering angle	●	●
Four wheel drive	●	●
Electrical system 24 V	●	●
Batteries 2x125 Ah	●	●
Automatic differential lock on front axle, limited slip	●	●
Tyres, 12.00 R24 Michelin	●	
Tyres, 14.00 R24 Michelin		●
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	○	○

\* Option is available for battery versions only (Boltec M10 SG and E10 SG)

# Technical specifications

● - Standard ○ - Option  
**A** - Boltec M10 S **B** - Boltec E10 S

Cabin	A	B
ROPS and FOPS certified cabin, noise level <65 dB(A)	●	●
Low profile cabin ROPS and FOPS certified 150 mm lower than standard - seated operation only	○	○
Cabin height fixed, lowered 140 mm from standard	○	○
Cabin height fixed, raised 250 mm from standard	○	○
Mediaplayer	●	●
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)	○	○

Dimensions	A	B
Width, without bolt rack	2 480 mm	2 501 mm
Height, cabin fixed ROPS and FOPS standard	3 011 mm	3 133 mm
Height, cabin lift/tilt function, FOPS	-	3 138 mm
Length tramming SBU2400	14 026 mm	15 120 mm
Ground clearance	275 mm	275 mm
Turning radius outer/inner	7 100/4 500 mm	7 500/4 750 mm

Weight	A	B
Total	28 000 kg	31 000 kg
Boom side	16 000 kg	21 000 kg
Engine side	12 000 kg	10 000 kg

Weight varies depending on options.

### Recommended cable sizes and lengths

Voltage	Dimension, mm <sup>2</sup>	Diameter, mm	Length, m
400 V	3x185+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.

### Tramming speed

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

\* Electric driveline >12 km/h

### Measurements in millimeters

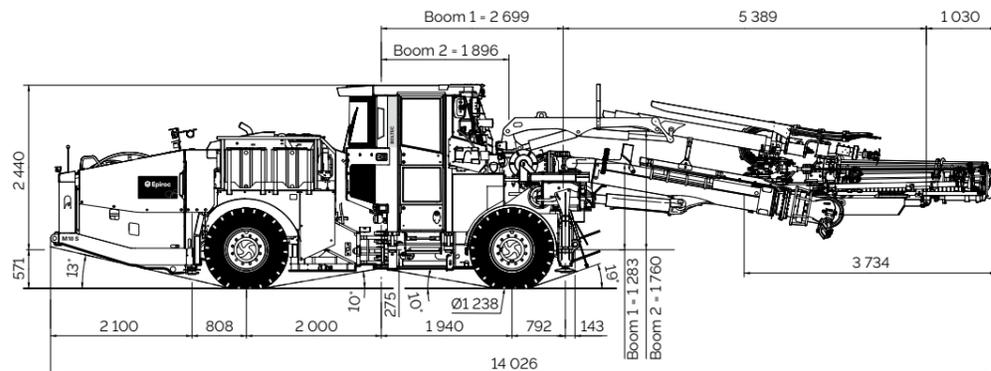


Illustration shows Boltec M10 S with pumpable resin option, 4-cylinder diesel engine, BUT 45 S boom and bolting unit for 2.4 m bolts.

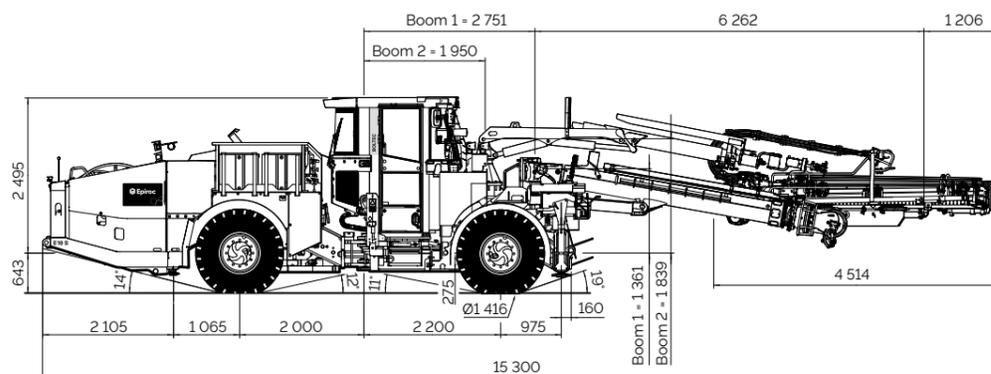
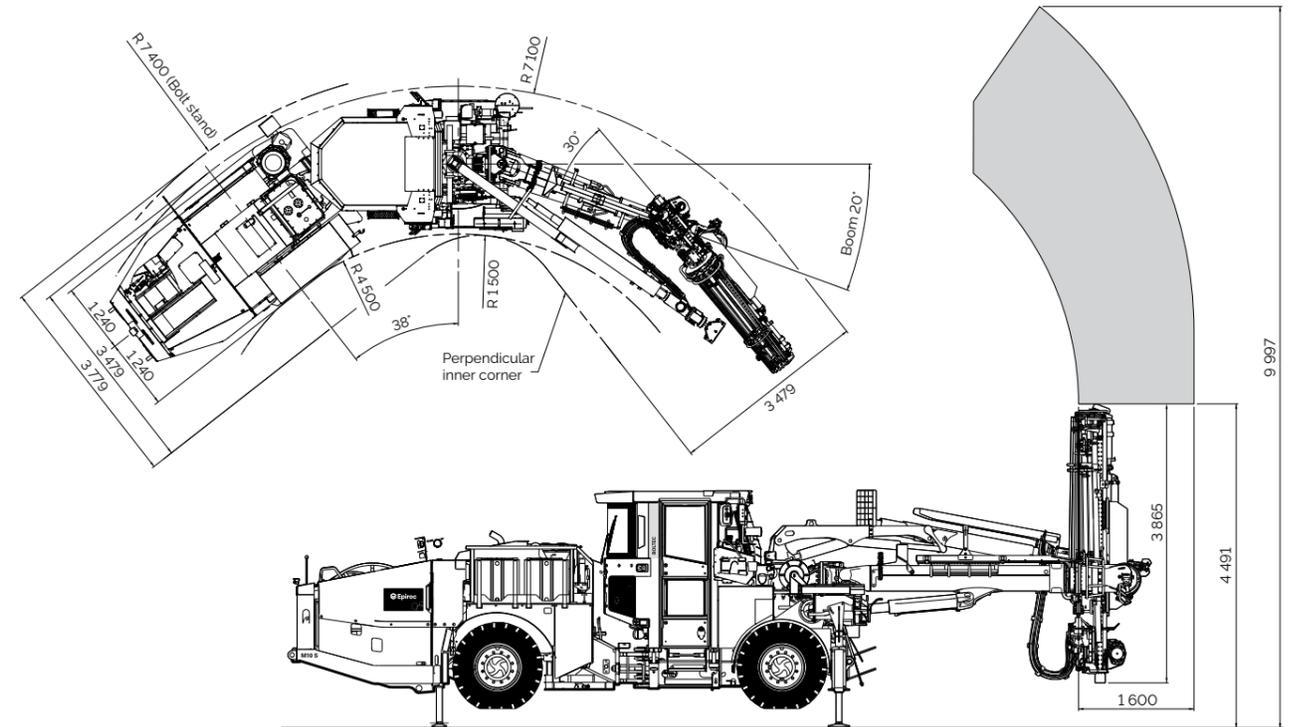


Illustration shows Boltec E10 S with pumpable resin option, 6-cylinder diesel engine, BUT 45 M boom and bolting unit for 3.0 m bolts.

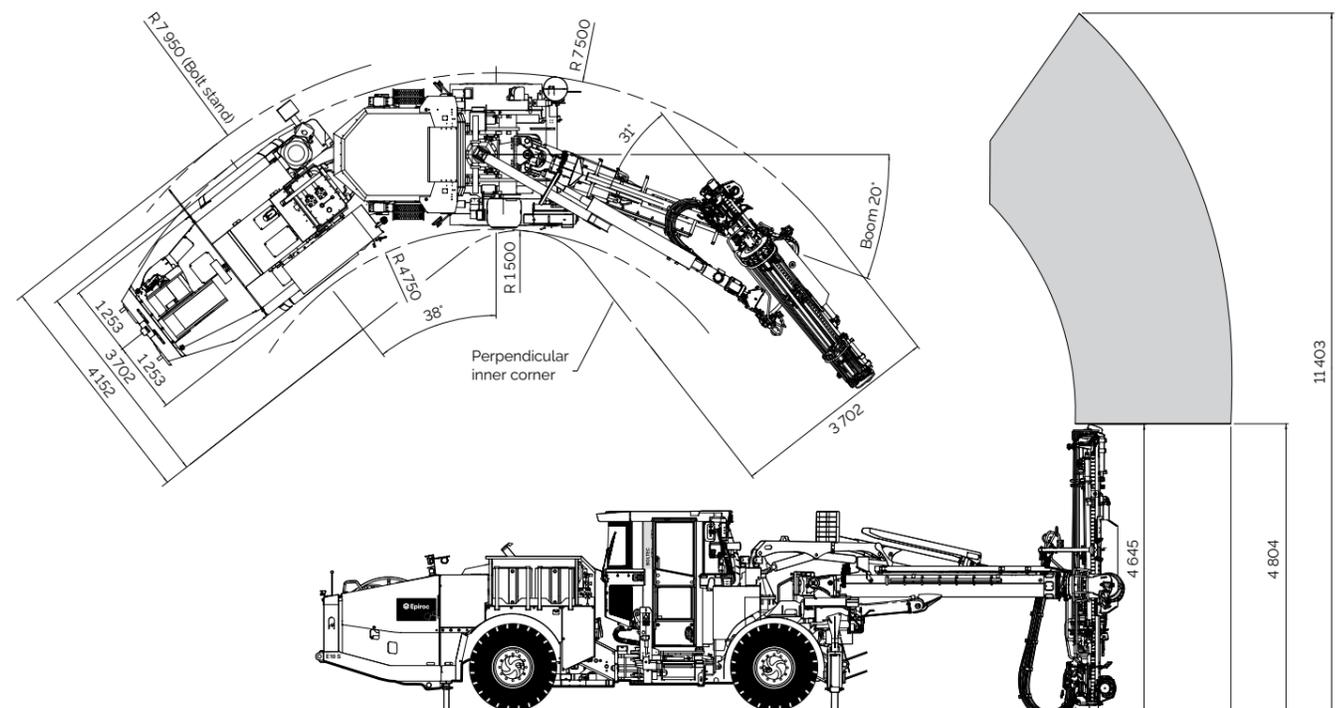
# Technical specifications

Turn radius and coverage area Boltec M10 S.



Coverage area (2.4 m bolts)

Turn radius and coverage area Boltec E10 S.



Coverage area (3.0 m bolts)

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