Boomer M-series

Face drilling rig for tunneling and mining applications with a coverage area up to 65 m²





Reloaded to meet your conditions

The Boomer M-series face drilling rigs have become a key piece of equipment for mining and tunneling applications. As part of our commitment to continuous improvement, the face drilling rig has benefitted from a comprehensive upgrade, focusing on improved safety, increased robustness and lower operational costs. The end result is a new Boomer M-series that truly is "reloaded".

🕀 Main benefits

Upgraded safety and ergonomics with ROPS and FOPS certified cabin, improved interior and safe bolting boom function

Better durability and robustness with overall improvements to the entire rig such as strengthened components, better protection of parts and better protection against internal wear

Lower operational costs thanks to longer service intervals and less unplanned downtime

🕀 Battery driveline benefits



efficiency.

The 150 kW electric drive train of the Boomer M2 Battery emits 80% less heat during tramming than its diesel-driven counterpart's 120 kW diesel engine.

Significant improvements in reliability with upgraded feeds

The new heavy-duty BUT 36S boom is optimized for tough conditions

Stronger axle for a longer life



The complete drive train and battery are based on commercial, well-tested components that enable high performance and



Automatic battery management and the industry's safest battery solution make it ideal for optimal production in demanding underground work environments.

Rock drills upgraded to COP 1838HD+ or COP MD20



ROPS and FOPS certified cabin for added safety (optional)

<image>

Filtration package designed to protect the key assets on the drill rig (optional)

The good just got better

There are always ways to improve and evolve equipment design. When contemplating what to focus on with the Boomer M-series upgrade, we utilized customer focused workshops, site visits and feedback from operators and service technicians to identify what equipment areas should be enhanced.



+ Safe bolting boom function

The Boomer M-series is unique in the mining and construction world because it offers a safe bolting boom function for the semi-mechanized installation of rock bolts. Due to the design of the BUT 36S booms and the side platforms on both sides of the operator station, it is possible to swing the feed all the way back to a position where the operator can safely load bolts into the feed without having to pass in front of the machine into areas with an unsupported roof.

+ COP MD20 is more productive and more robust

The new generation of rock drills are more durable than ever, with improved penetration rate, drill steel economy, up to 30% less RDT consumption, less vibrations, higher hydraulic efficiency, up to 15% faster penetration rate than closest competitor and a recommended service interval of 1000 impact hours. This means more uptime, increased productivity and lower running cost.



+ Epiroc Rig Control System

The reloaded rig offers the latest Rig Control System, the fifth generation of the RCS, so as to simplify the operator's work and contribute to increased productivity. With a new intuitive interface, upgraded software and user-friendly environment, the aim is – as always – to create more productive conditions for rock drilling, and to improve drilling rate and drill steel economy.



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

Drilling system	Α	В	С
COP 1638HD+			٠
COP 1838HD+	0	0	0
COP 2238HD+	0	0	0
COP 3038*		0	0
COP MD20		0	0
Hole blowing kit			
Water mist flushing, external water and air supply**	0	0	0
Water mist flushing, external water, internal air supply**	0	0	
Rock drill lubrication warning kit			
Lubrication air filtration system	0	0	
* Requires RCS and may require a larger electrical motor ** Not in combination with COP 3038			

Boom	Α	в	С
BUT 35 SL	٠	٠	٠
BUT 36 S T	0	0	0
Automatic boom lubrication for positioning unit	0	0	0

Feed		В	С
BMH 6000-Series 12 ft, 14 ft, 16 ft, 18 ft	٠	٠	
Telescopic feed BMHT 6000-series (max 18 ft)	0	0	0
Extension drilling set BSH 110 (BMH feeds only)	0	0	0
Rod Adding System, RAS (BMH feeds only)*	0	0	0
Water spraying kit on cradle	0	0	0
* Not in combination with COD 2029, May 14 ft food			

Air/watersystem			С
Hydraulically driven screw compressor Atlas Copco GA 5	٠		•
Hydraulically driven screw compressor Atlas Copco GA 30*	0	0	0
Hydraulic water booster pump, max capacity at 15 bar boost 200 l/min. Minimum water inlet, 2 bar at 200 l/min**	•	•	0
Hydraulic water booster pump, max capacity at 30 bar boost 400 l/min. Minimum water inlet, 2 bar at 400 l/min**		0	0
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	0	0	0
Water hose (Ø1.5 inch 70 m)	0	0	0
* Might require a larger electrical motor ** Depending on selected rock drill			

Hydraulic system	Α	в	с
Low oil level indicator	٠	٠	٠
Oil temperature gauge on oil tank, electronically supervised			•
Filtration 16 µm			•
Oil filter indicator			
Extra filtration package for water and fine particle removal	0	0	0
Mineral hydraulic oil			•
Biodegradable hydraulic oil	0	0	0
Electrical oil filling pump			٠
Heater kit for hydraulic oil tank, diesel engine and electric motors	0	0	0
Ni-Cr plated piston rods (limitations exist)	0	0	0

Standard O = Option B = Boomer M2 B = Boomer M2 C = Boomer M2 Battery

Control system	Α	В	с
Direct Control System 2 (DCS2)	•		
Feed Angle Measurement, FAM 1	0	0	
Feed Angle Measurement with hole depth, FAM 2	0	0	
Epiroc Rig Control System (RCS 5)	0	0	0
Advanced Boom Control (ABC) Pure	٠	٠	•
Advanced Boom Control (ABC) Regular	0	0	0
Advanced Boom Control (ABC) Total	0	0	0
Measure While Drilling (MWD)	0	0	0
Underground Manager PRO (PC software)	٠	٠	•
Underground Manager MWD (PC software) for analysis of drill data	0	0	0
Bolt view	٠	٠	•
Two operator panels (for standing operation only)	0	0	0
Rig access control	٠	•	•
Rig Remote Access (RRA), LAN or WLAN connection	0	0	0
Total station navigation	0	0	0
Certic Professional	0	0	0
Dynamic Tunneling Package (DTP)	0	0	0

Electrical system	Α	в	с
Total installed power 83 kW, Main motors, Sf 1.15 75 kW	٠		0
Total installed drilling power 118 kW, Main motors, Sf 115 2x55 kW*			٠
Total installed power 158 kW, Main motors, Sf 1.15 2x75 kW			
Total installed power 198 kW, Main motors, Sf 1.3 2x95 kW**		0	0
Voltage 380–1 000 V 50/60 Hz		٠	•
Voltage 690–1 000 V 50/60 Hz**			0
Starting method, star/delta (400-690 V)	٠	٠	•
Starting method, direct start (1 000 V)	٠		٠
Starting method soft start (not for 1 000 V)	0	0	0
Transformer 8 kVA	•	•	•
Transformer for charging 100 kW			٠
Electronic overload protection for electric motors	•	•	٠
Digital voltmeter/amperage meter in electric cabinet	•		•
Percussion hour meter on operator display	٠	٠	•
Phase sequence and eart fault indicator	٠	•	٠
Cable reel, diameter 1 600 mm	٠	•	•
Electric outlet for accessories, 16 A (CE)/32 A (CE) (380-690 V)	0	0	0
Extra transformer 3-phase, 15 kVA (230/400 V outlet) (690-1 000 V)	0	0	0
PC4 or PC5 plug	0	0	0
Battery charger	٠	٠	•
Dual controls for cable reel		•	•
Stainless steel electrical enclosure	0	0	0
Electric system 24 V	٠	•	•
24 V Batteries 2x125 Ah		•	•
700 V Battery 280 Ah			•
Tramming lights 8x22 W LED	٠	•	•
Working lights 4x150 W, 24 V DC			•
Illuminated stairs LED			•
* Depending on selected rock drill			

* Depending on selected rock drill

When equipped with COP 3038

Technical specifications

Carrier	Α	в	С
Deutz TCD 2013 L04 2 V stage IIIA/Tier 3 (120 kW)	•	٠	
Deutz TCD 4.1 LO4, stage IV/Tier 4 F (115 kW)	0	0	
Traction motor, 150 kW			
Articulated steering ±41° steering angle*	•	٠	•
TCD 4.1 stage 5 alternative	0	0	0
Four-wheel drive	•	•	
Hose/cable guiding at water/cable reel	0	0	0
Dana 113 (short) axle	•		
Automatic differential lock on axles, limited slip	•	٠	
Tires 12.00xR24	•	٠	•
Clearance outside axles 13° rear, 22° front	•	٠	٠
Fuel tank, volume 110 l	•	٠	
Central lubrication system	•	•	
Fire suppression system ANSUL (Manual, checkfire or automatic)	0	0	0
Fire suppression system FORREX (Automatic)	0	0	0
Rig washing kit	0	0	0
Manual lubrication kit	0	0	0
Boot washing kit	0	0	0
Hydraulic Swellex pump type H1 for manual installation	0	0	0
Hydraulic outlet for charging with Mini SSE	0	0	0
*If RHS E or SP2 service platform is equipped the steering angle will b	e redu	ced to	30°

i is equipped the steering angle will be reduced to 30

Protective roof	Α	в	
Mounting height -80 mm/+310 mm	0	0	0
Manual spotlight, left and/or right	0	0	0
Two operator panels (for standing operation only)	0	0	0
Swingable seat for drilling and tramming (one operator panel only)	0	0	0

Cabin (optional)	A	в	
ROPS and FOPS certified cabin, noise level <80 dB(A)	•	٠	
Mounting height -140/+250 mm	0	0	0
Low profile cabin -150 mm	0	0	0
Air conditioning unit			
Heating function for air conditioning (water transferred)	0	0	0
12 V outlet for communication radio	0	0	0
Electrical heater, 1.2 kW, 230 V (CE)	0	0	0
Electrical heater, 10 kW, 700 V (CE)	0	0	0
Reversing camera with monitor	0	0	0
Fixed seat	•	•	•
Swingable seat for drilling and tramming	0	0	0
Cabin body made of stainless steel	0	0	0
Joystick-controlled spotlights left and/or right, 70 W	0	0	0
Front window 22 mm (P8B saftey classed)	•		
Media player	0	0	0

● = Standard ○ = Option A = Boomer M1 B = Boomer M2 C = Boomer M2 Battery

Drifter rods

Rock drill	Rod	Min. hole diameter (mm)			
COP 1838	SR35-H35-T38 Speedrod	38			
COP 2238	SR35-H35-T38	38			
COP MD20	SR35-R39-T38	38			
COP 3038	SR35-R39-T38	45			

Extension rods for injection drilling/RAS

Rock drill	Rod	Min. hole diameter (mm)
COP 1838 COP 2238 COP MD20	Rnd 32 Speedrod	38
	Rnd 39 Speedrod	38
COP 3038	TC42-R39-TC42 Speedrod	64

Shank adapters

	•			
	Rock drill	Rod	Min. hole diameter (mm)	
	COP 1838	R38	38	
COP 2238	COP 2238	Т38	38	
	COP MD20	R32*	38	
	COP 3038	TC42 (conical T-thread)	45	

*Intended for RAS and extension drilling with BSH 110

Couplings

	-		
Rock drill	Rod	Diameter (mm)	Length (mm)
COP 1838 COP 2238	R38	55	170
COP 2238 COP MD20	Т38	55	170
COP 3038	TC42/T38	57	175

Recommended cable size and length

Voltage	Туре	Dimension (mm ²)	Diameter (mm)	Length (m)	Rock drill	
380-400 V	Buflex	3x185+3G35	56	90	COP 1838/2238	
440-500 V	Buflex	3x150+3G25	52	100	COP 1838/2238	
550 V	Buflex	3x120+3G25	46	120	COP 1838/2238	
660-690 V	Buflex	3x95+3G16	45	150	COP 1838/2238	
660-690 V	Buflex	3x150+3G25	52	100	COP 3038	
1000 V	Buflex	3x50+3G10	33	200	COP 1838/2238	
1000 V	Buflex	3x95+3G16	45	150	COP 3038	

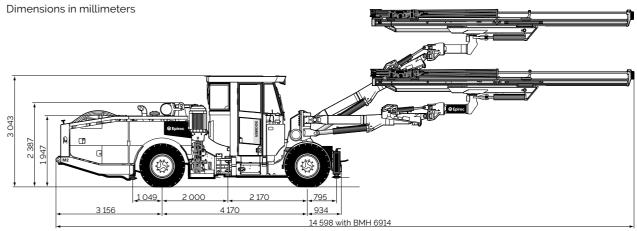
Recommendations are given for surrounding temperature of 40°C and up to a height of 2 000 m. Cable dimension for battery version depends on charging cycle.

Noise and vibration

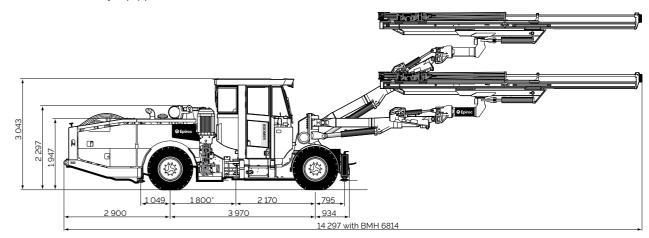
Operator sound pressure level in canopy, drilling, free field (ISO 11201)	104±6 dB(A) re 20 uPa
Operator sound pressure level in cabin, drilling, free field (ISO 11201)	75±3 dB(A) re 20 uPa
Operator sound pressure level working close to ma- chine, drilling, free field	104±6 dB(A) re 20 uPa
Sound power level (ISO 3744), drilling, free field	128 dB(A) re 1 pW*
Vibration levels seated, drilling (ISO 2631-1) cabin	0.07±0.07 m/s^2
Vibration levels standing, drilling (ISO 2631-1) cabin	0.07±0.07 m/s^2
131 dB(A) re 1 p\V/ when equipped with COP 3038	

131 dB(A) re 1 pW when equipped with COP 3038

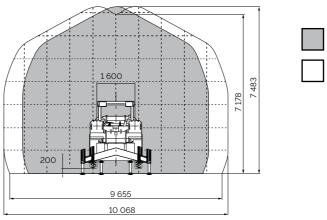
Technical specifications



Boomer M2 Battery equipped with COP 1838.



Boomer M2 equipped with COP 3038. * COP 3038 adds 200mm.



Boomer M-series, coverage area.

Dimensions

		-			
Width	2 550 mm	On flat ground	On flat ground (rolling resistance 0.05)*		>15 km/h
Height with cabin	3 179 mm	On incline 1:8	On incline 1:8		>5 km/h
Height roof up/down	3 019/2 324 mm	* Electric driveline >12 km/h			
Length with BMH 6814 feed(s)	14 297 mm	Gross we	Gross weight (depending on configuration)		
Ground clearence	260 mm		aross weight (acpending on configuration)		
		Rig type	Total	Boom side	Engine side
Turning radius outer/inner (Equipped with COP 1838)	7 500/4 400 mm				
Turning radius outer/inner (Equipped with COP 3038)	7 200/4 400 mm	One boom rig	18 000-20 000 kg	9 000-11 000 kg	9 000 kg
		Two boom rig	23 000-29 000 kg	17 500-19 000 kg	6 000-10 000 kg
			1	1	

One boom rig

Two boom rig

Tramming speed



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