BOOMER M-SERIES

Face drilling rig for tunneling and mining applications with a coverage area up to 65 m^2.

Atlas Copco

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

Safety The reloaded face drilling rig has been improved with safety and ergonomics in mind. As an example, the new, optional cabin is ROPS and FOPS certified and has an upgraded interior and operator work environment. With the unique safe bolting boom function, the operator can safely load bolts into the feed without having to pass in front of the machine into areas with an unsupported roof.

Robustness The new Boomer M-series is more durable overall. Numerous upgrades have resulted in a more robust and strong face drilling rig. The improvements include strengthened components, better protection of parts and better protection against internal wear.

Operational costs The sum of our efforts has resulted in a face drilling rig that consistently achieves longer service intervals. This represents a significant reduction in operational costs for you. Unplanned downtime is also greatly reduced, meaning there is less disruption to your operational cycle.

Feed upgrades – significant improvements in reliability

Updated rock drill – second generation of COP1838 HD+

New cabin – ROPS and FOPS-certified for added safety (optional)

Upgraded boom – the new heavy-duty BUT 36S boom is optimized for tough conditions

Carrier improvements – stronger axle for longer life

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

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.

+ ROCK DRILL

The Boomer M-series is equipped with the second generation of the flexible COP1838HD+ rock drill. Thanks to new design features, we have been able to increase the drill's rebuild intervals by up to 50%, depending on operating conditions. Key design improvements include: extended driver part life due to new driver design, replaceable dampening piston sleeve insert for lower operating costs, improved protection for the impact piston because of better alignment and longer seal life.

+ ATLAS COPCO 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.

MORE THAN A MACHINE

Atlas Copco Service back up your equipment with sustainable solutions that deliver better safety, higher productivity and peace of mind. The Atlas Copco Service global offering is loaded with reliability and the highest availability. Atlas Copco aims to contribute to your profitability and add value to your operation. Contact your local Atlas Copco representative to find out what can be done to help your business.

● = STANDARD ○ = OPTION
A = BOOMER M1 B = BOOMER M2

DRILLING SYSTEM	A	B
COP 1638HD+	●	●
COP 1838HD+	○	○
COP 2238HD+	○	○
COP 3038*		○
Hole blowing kit	●	●
Water mist flushing, external water and air supply**	○	○
Water mist flushing, external water, internal air supply**	○	○
Rock drill lubrication warning kit	●	●
Lubrication air filtration system	○	○

*Requires RCS and may require a larger electrical motor
** Not in combination with COP 3038

BOOM	A	B
BUT 35 SL	●	●
BUT 36 S T	○	○
Automatic lubrication for positioning unit	○	○

FEED	A	B
BMH 6000-Series 12 ft, 14 ft, 16 ft, 18 ft	●	●
Telescopic feed BMHT 6000-series (max 18 ft)	○	○
Extension drilling set BSH 110 (BMH feeds only)	○	○
Rod Adding System E, RAS (BMH feeds only)*	○	○
Water spraying kit on cradle	○	○

* Not in combination with COP 3038, Max 14 ft feed

AIR/WATERSYSTEM	A	B
Hydraulically driven screw compressor Atlas Copco GA 5	●	●
Hydraulically driven screw compressor Atlas Copco GA 30*	○	○
Hydraulic water booster pump, max capacity at 15 bar boost 200 l/min. Minimum water inlet, 2 bar at 200 l/min**	●	●
Hydraulic water booster pump, max capacity at 30 bar boost 400 l/min. Minimum water inlet, 2 bar at 400 l/min**		○
Water hose reel	○	○
Water hose (Ø1.5 inch 70 m)	○	○

*Might require a larger electrical motor
**Depending on selected rock drill

HYDRAULIC SYSTEM	A	B
Low oil level indicator	●	●
Oil temperature gauge on oil tank, electronically supervised	●	●
Filtration 16 µm	●	●
Oil filter indicator	●	●
Extra filtration package for water- and fine particle removal	○	○
Mineral hydraulic oil	●	●
Biodegradable hydraulic oil	○	○
Electrical oil filling pump	●	●
Heater kit for hydraulic oil tank, diesel engine and electric motors	○	○
Ni-Cr plated piston rods (limitations exist)	○	○

CONTROL SYSTEM	A	B
Direct Control System 2 (DCS2)	●	●
Feed Angle Measurement, FAM 1	○	○
Feed Angle Measurement with hole depth, FAM 2	○	○
Atlas Copco Rig Control System (RCS 5)	○	○
Advanced Boom Control (ABC) Pure	●	●
Advanced Boom Control (ABC) Regular	○	○
Advanced Boom Control (ABC) Total	○	○
Measure While Drilling (MWD)	○	○
Underground Manager PRO (PC software)	●	●
Underground Manager MWD (PC software) for analysis of drill data	○	○
Bolt view	●	●
Two operator panels (for standing operation only)	○	○
Rig Acces Control	●	●
Rig Remote Access (RRA), LAN or WLAN connection	○	○
Total Station Navigation	○	○
Certic Proffessional	○	○
Dynamic tunneling package	○	○

ELECTRICAL SYSTEM	A	B
Total installed power 83 kW, Main motors, Sf 1.15 75 kW	●	
Total installed power 158 kW, Main motors, Sf 1.15 2 x 75 kW		●
Total installed power 198 kW, Main motors, Sf 1.3 2 x 95 kW**		○
Voltage 380-1 000 V 50/60 Hz	●	●
Starting method, star/delta (400-690 V)	●	●
Starting method, direct start (1 000 V)	●	●
Starting method soft start (not for 1 000 V)	○	○
Transformer 8 kVA	●	●
Electronic overload protection for electric motors	●	●
Digital voltmeter/amperage meter in electric cabinet	●	●
Percussion hour meter on operator display	●	●
Phase sequence and eart fault indicator	●	●
Cable reel, diameter 1 600 mm	●	●
Electric outlet for accessories, 16 A (CE) / 32 A (CE) (380-690 V)	○	○
Extra transformer 3-phase, 15 kVA (230/400 V outlet) (690-1 000 V)	○	○
PC4 or PC5 Plug	○	○
Battery charger	●	●
Dual controls for cable reel	●	●
Stainless steel electrical enclosure	○	○

*Depending on selected rock drill
** When equipped with COP3038

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CARRIER	A	B
Deutz TCD 2013 L04 2V Stage IIIA/Tier 3 (120 kW)	●	●
Deutz TCD 4.1L04, Stage IV/ Tier 4F (115 kW)	○	○
Articulated steering ±41° steering angle*	●	●
Four-wheel drive	●	●
Electric system 24 V	●	●
Batteries 2x125 Ah	●	●
Hose/cable guiding at water/cable reel	○	○
Dana 113 (short) axle	●	●
Automatic differential lock on axles, limited slip	●	●
Tires 12.00 x R24	●	●
Clearance outside axles 13° rear, 22° front	●	●
Tramming lights 8 x 22 W LED	●	●
Working lights x 4 x 150 W LED	●	●
Illuminated stairs LED	●	●
Fuel tank, volume 110 l	●	●
Central lubrication system	●	●
Fire suppression system ANSUL (Manual, checkfire or automatic)	○	○
Fire suppression system FORREX (Automatic)	○	○
Rig washing kit	○	○
Manual lubrication kit	○	○
Boot washing kit	○	○
Hydraulic Swellex pump type H1 for manual installation	○	○
Hydraulic outlet for charging with Mini SSE	○	○

*If RHS E or SP2 service platform is equipped the steering angle will be reduced to 30°

PROTECTIVE ROOF	A	B
Mounting height -80 mm/+310 mm	○	○
Manual spotlight, left and/or right	○	○
Two operator panels (for standing operation only)	○	○
Swingable seat for drilling and tramming (one operator panel only)	○	○

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

DRIFTER RODS

Rock drill	Rod	Min. hole diameter (mm)
COP 1838 COP 2238	SR35-H35-T38 Speedrod	38
	SR35-H35-T38	38
	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	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 COP 2238	R38	38
	T38	38
	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
	T38	55	170
COP 3038	TC42/T38	57	175

RECOMMENDED CABLE SIZE AND LENGTH

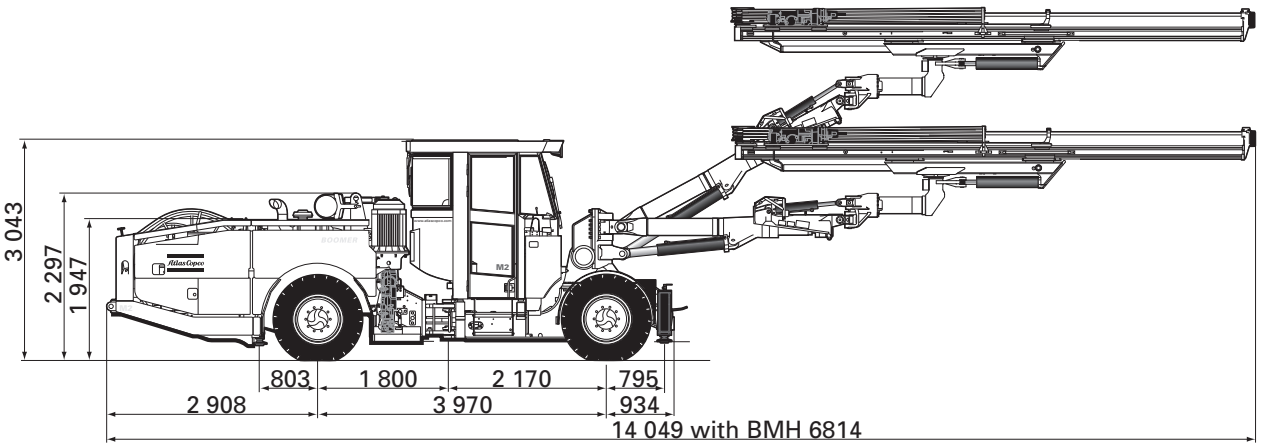
Voltage	Type	Dimension (mm²)	Diameter (mm)	Length (m)	Rock drill
380-400 V	Buflex	3x185+3G35	56	90	COP 1838/2238
440-500 V	Buflex	3x150+3G25	52	100	COP 1838/2238
550 V	Buflex	3x120+3G25	46	120	COP 1838/2238
660-690 V	Buflex	3x95+3G16	45	150	COP 1838/2238
660-690 V	Buflex	3x150+3G25	52	100	COP 3038
1 000 V	Buflex	3x50+3G10	33	200	COP 1838/2238
1 000 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

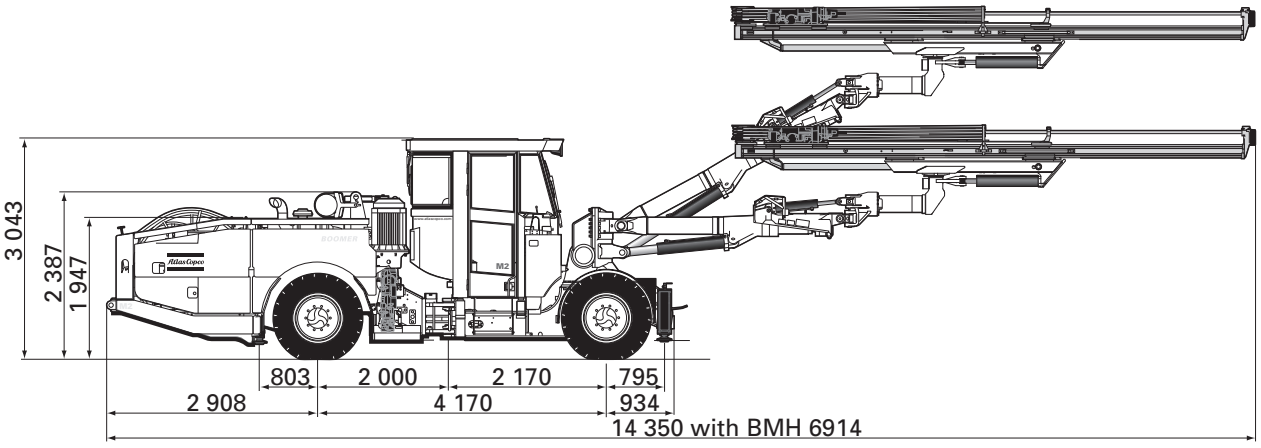
NOISE AND VIBRATION

Operator sound pressure level in canopy, drilling, free field (ISO 11201)	104± 6 dB(A) re 20uPa
Operator sound pressure level in cabin, drilling, free field (ISO 11201)	75± 3 dB(A) re 20uPa
Operator sound pressure level working close to machine, drilling, free field	104±6 dB(A) re 20uPa
Sound power level (ISO 3744), drilling, free field	128 dB(A) re 1pW*
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

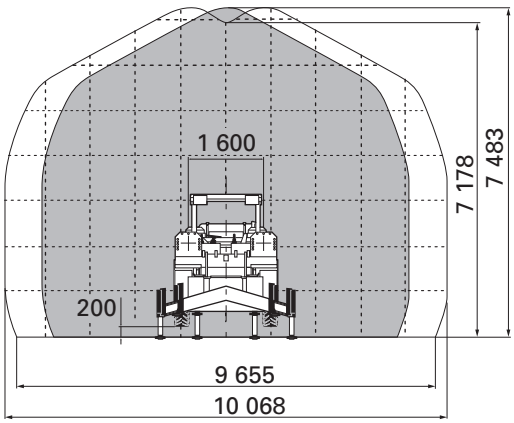
131 dB(A) re 1pW when equipped with COP 3038



Boomer M-series equipped with COP 1838.



Boomer M-series equipped with COP 3038.



One boom rig

Two boom rig

Boomer M-series, coverage area.

DIMENSIONS	
Width	2 550 mm
Height with cabin	3 179 mm
Height roof up/down	3 019/2 324 mm
Length with BMH 6814 feed(s)	14 049 mm
Ground clearence	260 mm
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

TRAMMING SPEED	
On flat ground (Rolling resistance 0.05)	>15
On incline 1:8	>5

GROSS WEIGHT (DEPENDING ON CONFIGURATION)			
Rig type	Total	Boom side	Engine side
One boom rig	18 000-20 000 kg	9 000-11 000 kg	9 000 kg
Two boom rig	23 000-27 000 kg	17 500-19 000 kg	6 000-8 000 kg

COMMITTED TO SUSTAINABLE PRODUCTIVITY

We stand by our responsibilities towards our customers,
towards the environment and the people around us.
We make performance stand the test of time.
This is what we call – Sustainable Productivity.

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