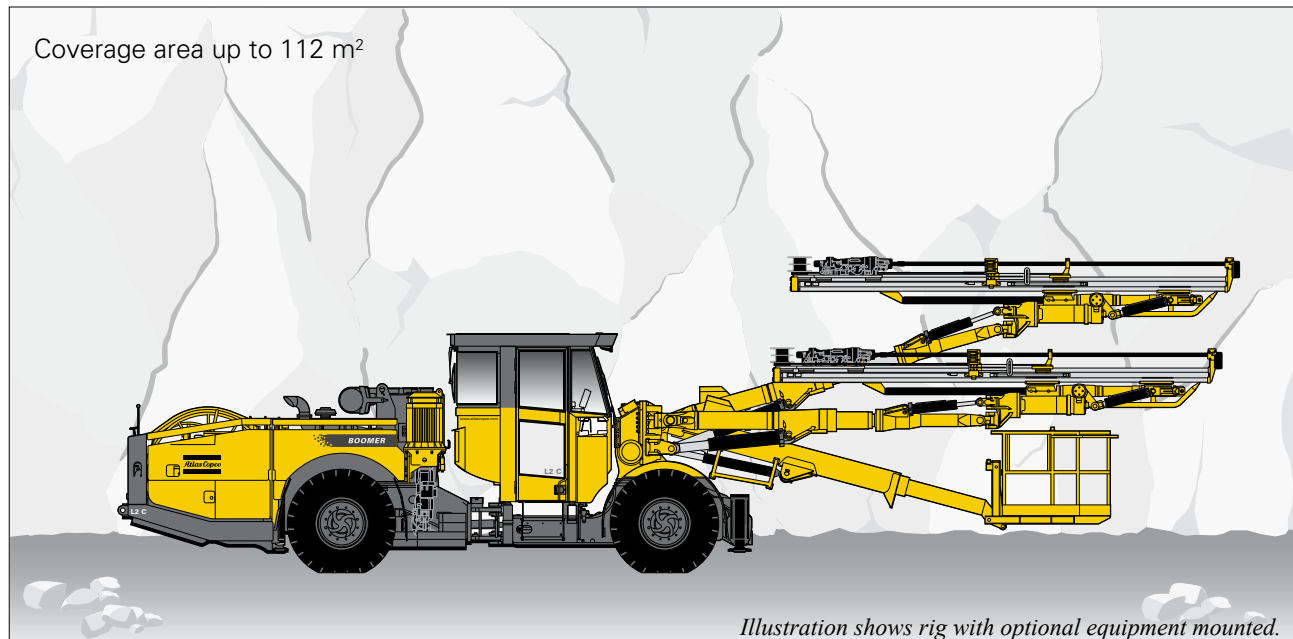


Boomer L2 C

Equipped with COP 1638, COP 1838 or COP 2238 rock drills



Two boom hydraulic tunnelling and mining rig with an advanced Rig Control System, COP 1638, COP 1838 or COP 2238 rock drills and heavy-duty BUT 35 booms for superior productivity.

Standard features

» Rock drill

- COP 1638, COP 1838 or COP 2238 rock drills with dual-damping system for optimal drill consumable life
- Pressurized housing and mating surfaces to reduce internal contamination of the rock drill

» Hydraulic boom

- BUT 35 heavy-duty boom with double tripod suspension for accurate hydraulic parallel holding in all directions

» Hydraulic feed

- BMH 6800-series heavy-duty aluminium feed with high bending and torsional resistance for maximum durability
- Snap-on stainless steel sleeves and polymer contacts

» Control system

- Advanced Rig Control System (RCS) allowing several levels of automation to suit customer requirements
- Standard functions include soft collaring and the anti-jamming function Rotation Pressure Controlled Feed (RPCF)
- Integrated diagnostic and event logging system to assist in equipment maintenance
- Interactive operator panel with full-colour display

» Carrier

- Sturdy, articulated carrier with four-wheel drive
- Powered by a 4-cylinder, EPA III/COM III (Tier 3/Stage IIIA) approved diesel engine
- Four jacks for stable set-up

» General

- FOPS-approved telescopic protective roof
- Hydraulically driven water booster pump
- Hydraulically driven compressor
- Cable reel
- Working lights

Specifications

ROCK DRILL

	COP 1638	COP 1838	COP 2238
Shank adapter	R32/R38/T38	R32/R38/T38	R32/R38/T38
Height over drill centre	88 mm	88 mm	88 mm
Length without shank	1 008 mm	1 008 mm	1 008 mm
Impact power	16 kW	18 kW	22 kW
Impact rate	60 Hz	60 Hz	73 Hz
Hydraulic pressure	200 bar	230 bar	250 bar
Rotation system	Separate rotation	Separate rotation	Separate rotation
Rotation speed	0–340 rpm	0–340 rpm	0–340 rpm
Rotation torque, max	640 Nm	640 Nm	640 Nm
Lub. air consump. at 2 bar	6 l/s	6 l/s	6 l/s
Water consumption	70 l/min	70 l/min	70 l/min
Weight	170 kg	170 kg	170 kg

FEED

BMH 6800	BMH 6814	BMH 6816	BMH 6818	BMH 6820
Total length	5 882 mm	6 502 mm	7 102 mm	7 677 mm
Drill steel length	4 310 mm	4 920 mm	5 530 mm	6 100 mm
Hole depth	4 043 mm	4 668 mm	5 268 mm	5 843 mm
Weight, incl. drill	631 kg	665 kg	696 kg	721 kg
Feed force	22.0 kN	22.0 kN	22.0 kN	22.0 kN

» Boom

- BUT 35
- Feed extension 1,800 mm
- Boom extension 1,600 mm
- Parallel holding complete
- Feed roll-over 360°
- Max. lifting angle +70°/–45°
- Max. swinging angle ±45°
- Weight, boom only 2,900 kg

» Air system

- Hydraulically driven screw compressor... Atlas Copco GAR 5
- Capacity, max at 9 bar 26 l/s
- Adjustable speed
- Air pressure gauge
- Hole blowing kit with 80 l air receiver

» Water system

- Hydraulic water booster pump Flygt PXR 160 7H
- Water booster pump max capacity at 15 bar boost.... 300 l/min
- Min water inlet pressure at 200 l/min, 2 bar
- Water pressure gauge
- Water flow guard
- Pressure compensated water pump

» Control system

- Rig Control System (RCS) – versatile and upgradeable to a higher degree of automation
- One adjustable, electronic control panel with colour display
- PC-card for transfer of data and backup settings
- Integrated diagnostic system
- Separate battery for electronic system

» Electrical system

- Total installed power 158 kW
- Main motors (SF 1,15) 2x75 kW
- Voltage 380–1 000 V
- Frequency 50–60 Hz
- Starting method star/delta
- Electronic overload protection for electric motors
- Percussion hour meter on operator display
- Digital voltmeter/amperage meter in electric cabinet
- Phase sequence indicator
- Earth fault indicator
- Battery charger
- Transformer 8 kVA
- Cable reel, diameter 1 600 mm
- Dual controls for cable reel

» Hydraulic system

- Hydraulic pumps 2 separate units, one for each boom
- Pumps unloaded at start
- System pressure, max 250 bar
- Hydraulic oil tank, volume max/min 200/250 l
- Low oil level indicator
- Oil temperature gauge on oil tank
- Electrical oil filling pump
- Oil filter indicator
- Water cooled oil
- Filtration 16 µm
- Mineral hydraulic oil

» Carrier

- Deutz 4-cylinder, TCD 2013 L04, EPA III/COM III (Tier 3/ Stage IIIA) approved 4-stroke prechamber diesel engine
- Power rating at 2 300 rpm 120 kW (160 hp)
- Torque at 1 600 rpm 618 Nm
- Articulated steering ±38° steering angle
- Four-wheel drive
- Hydrostatic power steering system
- Hydrodynamic transmission Clark 24000
- Front axle Dana 114
- Rear axle Dana 114, ±8° oscillation
- Automatic differential lock on front axle, limited slip
- Tyres 14.00xR24
- Clearance outside axles 16° rear, 23° front
- Hydraulic jacks, front 2 extendable
- Hydraulic jacks, rear 2
- Service brakes 2 separate circuits
- Emergency and parking brakes SAHR
- Fuel tank, volume 110 l
- Exhaust catalyser
- Silencer
- Electric system 24 V
- Batteries 2x125 Ah
- Trimming lights 6x40 W LED, 2x70 W, 24 V DC
- Working lights 4x35 W HID, 24 V DC
- Brake lights
- Illuminated stairs for platform LED
- Fire extinguisher
- Central lubrication system
- Spirit level one for longitudinal, one for sideways
- Gradeability at max. load on drive wheels 1:4
- Horn, beacon and reverse alarm
- Shelf for drill bits and tools

DRIFTER RODS

Dimension		Min. hole diameter
mm	R32-H35-R38	45
	R32-H35-T38	45
	R32-H35-T38 Speedrod	45
	SR35-H35-R38 Speedrod	45
	SR35-H35-T38 Speedrod	45
	SR35-H35-T38	45
	SR35-R39-T38	45
	R32-R39-T38	45
	SR35-R39-T38	45
	SR35-R39-T38 Speedrod	45

SHANK ADAPTERS

Thread		Diameter	Length
mm	R38	38	435
	T38	38	435
	R32*	38	525
	T38*	38	525

**Intended for RAS and extension drilling with BSH 110*

COUPLINGS

Thread		Diameter	Length
mm	R38	55	170
	T38	55	190

EXTENSION RODS FOR INJECTION DRILLING/RAS

Dimension		Min. hole diameter
mm	Rnd 32 Speedrod	51
	Rnd 38 Speedrod	64

Optional equipment

» Rock drill/Drilling system

- Air-Water mist flushing, external water and external air supply. Hydraulic oil cooled by water or air fan
- Air-Water mist flushing, external water and internal air supply. Hydraulic oil cooled by water or air fan
- External air supply connection for hole blowing kit.

» Feed

- Telescopic feed BMHT 6000-series (max 18 ft)
- Extension drilling set BSH 110 (BMH feeds only)
- Feed prepared for RAS
- Rod Adding System, RAS
- Heavy duty mining centralisers
- Hole depth sensor - Hydraulic flow meter in place of standard sensor

» Boom

- Automatic boom lubrication, rear part of boom
- BUT 35L long reach boom

» Software

- Advanced Boom Control, ABC Basic
- Advanced Boom Control, ABC Regular
- Bolt view
- Water loss measurement instruments installed in service platform

» Protective roof

- Mounting height -80 mm/+30 mm/+310 mm
- Manual spotlight, left and/or right
- Swingable seat for drilling and tramming (one operator panel only)
- Two operator panels for standing operation only

» Cabin

- FOPS-approved cabin, 3 123 mm including:
 - Air conditioning unit
 - Fixed seat
 - CD-changer
 - Boot washing kit
- Cabin body made of stainless steel
- Mounting height -60/-140/+250 mm
- Front window, 24 mm
- Heating function for air conditioning (water transferred)
- Electrical heater, 1.2 kW, 230 V (CE)
- Joystick-controlled spotlights left and/or right, 70 W
- Swingable seat for drilling and tramming
- Two operator panels (for standing operation only)

» Air system

- Compressor, GAR 30

» Water system

- Water hose reel, including hose

» Hydraulic system

- Biodegradable hydraulic oil
- Heater kit for hydraulic oil tank, diesel engine and electric motors

» Carrier

- Deutz TCD 2013 L06 2V
- 16xR25 tyres

- Fire suppression system ANSUL (manual or Checkfire)
- Fire suppression system FORREX (manual or automatic)

» Electrical system

- Stainless steel electrical enclosure
- Electrical trailing cable 380-690V - H07RN-F or Buflex
- Electrical trailing cable 1000V - Buflex
- Soft start of main electrical motors (380-690V)
- Plug for cable
- Switch gear
- Electric outlet for accessories, 16 A (CE)
- Extra transformer 3-phase, 15kVA (230/400 V outlet)

» Miscellaneous

- Service platform, SP2 (requires larger carrier)
- Protective roof for service platform
- Water and air outlet in service platform
- Hose/cable guiding at water/cable reel
- Hydraulic Swellex pump type H1 for manual installation
- Manual lubrication kit
- Rig washing kit
- Ni-Cr plated piston rods (limitations exist)
- Boot washing kit
- Hydraulic outlet for charging with Mini SSE

Measurements

SIDE VIEW

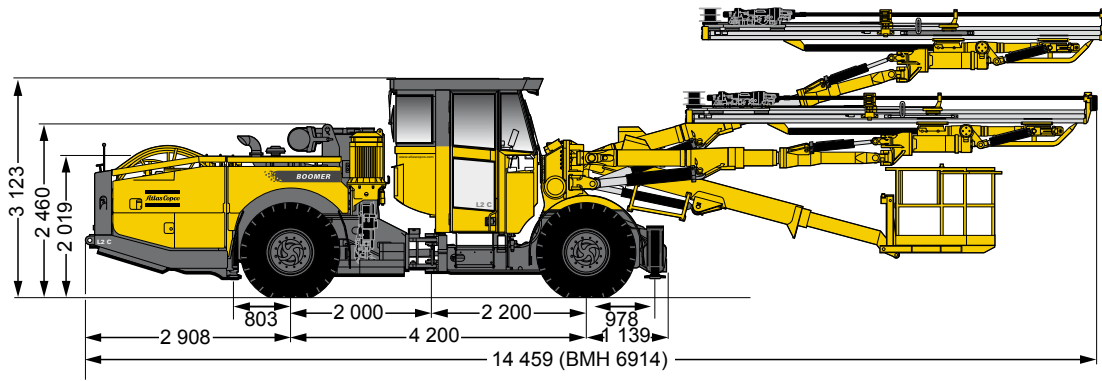
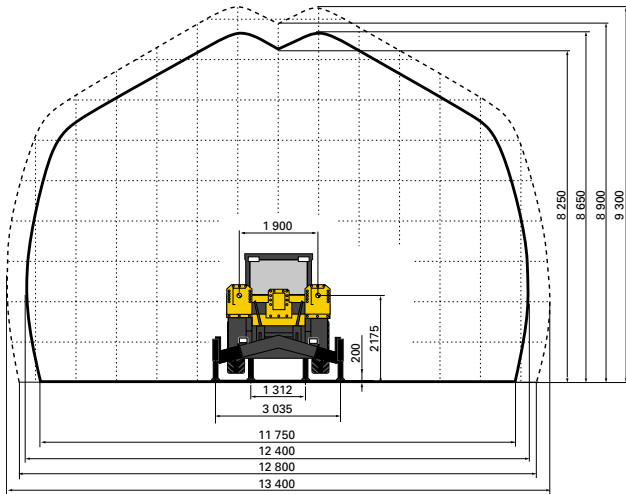


Illustration shows rig with optional equipment mounted.

COVERAGE AREA



Parallel coverage BUT 35

RECOMMENDED CABLE SIZE AND LENGTH

Voltage	Type	Dimension, mm ²	Diameter, mm	Length, m
380–400 V	H07RN-F	4X150	67	60
	Buflex	3x185+3G35	56	90
440–500 V	H07RN-F	4X120	60	75
	Buflex	3x150+3G25	52	100
550 V	H07RN-F	4X95	55	90
	Buflex	3x120+3G25	46	135
660–690V	H07RN-F	4X70	49	110
	Buflex	3x95+3G16	45	155
1 000 V	H07RN-F	N/A	N/A	N/A
	Buflex	3x50+3G10	33	200

Recommendations are given for surrounding temperature of 40 °C and up to a height of 2,000 m.

DIMENSIONS

mm		
Width		2 543
Height with cabin		3 123
Height roof up/down		3 098/2 460
Length with BMH 6914 feeds		14 361
Ground clearance		334
Turning radius outer/inner		8 200/4 800

WEIGHT

gross weight, depending on configuration

kg		
Total		35 000–39 000
Boom side		24 000–29 000
Engine side		10 000–12 000

TRAMMING SPEED

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

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)	0.07+ 0.07 m/s ²
Vibration levels standing, drilling (ISO 2631-1)	0.07+ 0.07 m/s ²