



# Boomer L2 D

Face drilling rigs equipped with COP 1838HD + rock drill



# Maximize your drilling productivity

Hydraulically controlled mining and tunneling face drilling rig with two BUT 35 boomers. Available with a variety of rock drills to suit customer requirements.

## Standard Features

### Rock Drill

- COP 1838HD+ rock drill with dual-damping system for optimal 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 6000-series (6814 or 6818), heavy-duty aluminium feed with high bending and torsional resistance for maximum durability
- Snap-on stainless steel sleeves and polymer contact

### Control System

- Hydraulically controlled drilling system which incorporates the anti-jamming function Rotation Pressure Controlled Feed (RPCF)

### 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
- Cable reel
- Hydraulically driven compressor
- Hydraulically driven water booster pump
- Working lights

Coverage area up to 104 m<sup>2</sup>

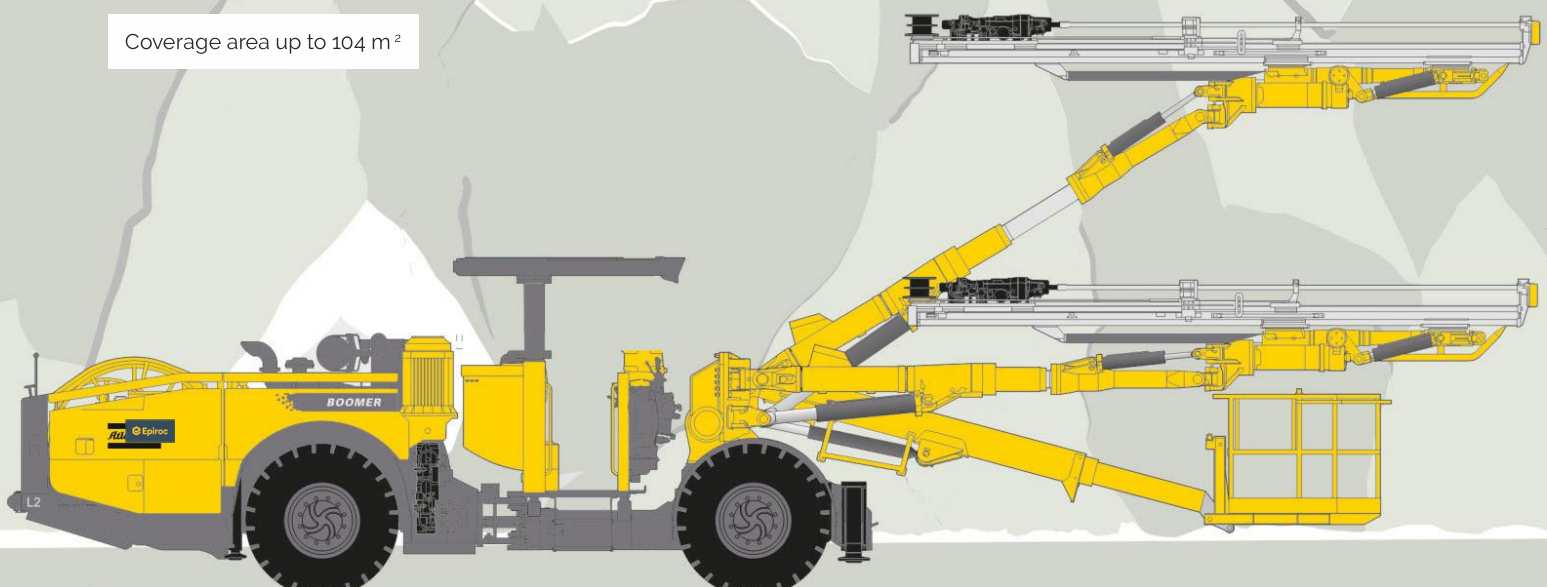


Illustration shows rig with optional equipment mounted.

# Technical specifications

## Rock drill

	COP 1838HD+
Shank adapter	R32/R38/T38
Height over drill centre	88mm
Length without shank	1 008 mm
Impact power	18 kW
Impact rate	60 Hz
Hydraulic pressure	230 bar
Rotation system	Separate rotation
Rotation speed	0-340 rpm
Rotation torque, max	640 Nm
Lub. air consump. at 2 bar	61/s
Water consumption	1.1 l/s
Weight	170 kg
Sound level	<106 dB(A)

## Feed

BMH 6800	BMH 6812	BMH 6814	BMH6816	BMH 6818
Total length	5 287 mm	5 582 mm	6 502 mm	7 102 mm
Drill steel length	3 700 mm	4 310 mm	4 920 mm	5 530 mm
Hole depth	3 700 mm	4 043 mm	4 668 mm	5 268 mm
Weight, incl. drill	601 kg	631 kg	665 kg	696 kg
Feed force	20.0 kN	20.0 kN	20.0 kN	20.0 kN

## Drifter rods

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

## Boom

- BUT35
- 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

## 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 ..... 250/200 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
- Big hole drilling system

## Electrical system

- Total installed power ..... 158 kW
- Main motors ..... 2x75 kW
- Voltage ..... 380±10%
- Frequency ..... 50 Hz
- Starting method ..... star/delta
- Electronic overload protection for electric motors
- Percussion hour meter on operator display
- Phase sequence indicator
- Earth fault indicator
- Battery charger
- Transformer ..... 8 kVA
- Cable reel, diameter ..... 1 600 mm
- Dual controls for cable reel

## Carrier

- Deutz 4-cylinder, TCD 2013 Lo4, 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
- Fixed seat for tramping
- 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 ..... 19° front, 14° rear
- Hydraulic jacks, front ..... 2 extendable
- Hydraulic jacks, rear ..... 2
- Service brakes ..... 2 separate circuits
- Emergency and parking brakes ..... SAHR
- Fuel tank, volume ..... 100 l
- Exhaust catalyser
- Silencer
- Electric system ..... 24 V
- Batteries ..... 2x12 V, 125 Ah
- Tramping lights ..... 6x40W 24V LED, 2x70W halogen
- Working lights ... 4x80 W LED, 24 V DC
- Brake lights - LED lights
- Illuminated stairs for platform
- 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

## Air system

- Hydraulically driven screw compressor ..... Atlas Copco GAR 5
- Capacity, max. at 9 bar ..... 26 l/s
- Adjustable speed
- Air pressure gauge

## Water system

- Hydraulically driven water booster pump ..LOWARA 225V07F075
- Water booster pump max. capacity at 15 bar ..... 250 l/min
- Min water inlet pressure at 200 l/min ..... 2 bar
- Water pressure gauge
- Water flow guard



## Technical specifications

### Shank adapters

Thread	Dimension	Diameter	Length
R38	mm	38	435
T38	mm	38	435
R32	mm	38	525
T38□	mm	38	525

□ Intended for RAS and extension drilling with BSH 110

### Coupling sleeves

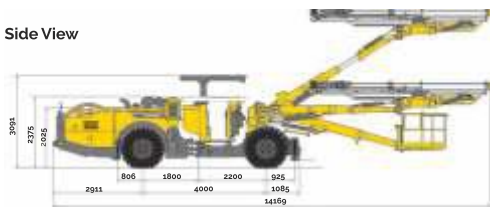
Thread	Dimension	Diameter	Length
R38	mm	55	170
T38	mm	56	190

### Extension rods

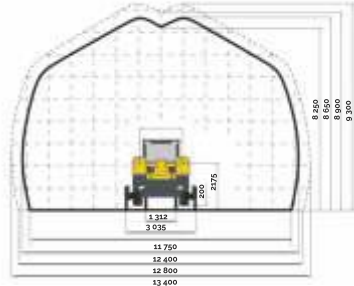
Thread	Dimension	Min. hole diameter
Rnd 32 Speedrod	mm	51
Rnd 38 Speedrod	mm	64

## Measurements

Side View



Coverage Area



### Turning radius

Drift Size	Outside Radius	Inside Radius
4300x4300 mm	8200 mm	4800 mm

## Optional equipment

- Rock Drill/Drilling System
  - COP 2238HD+COP 1638HD+also possible as option
  - Hole blowing kit
- Feed
  - Telescopic feed BMHT 6000-series (max. 18 ft)
  - Extension drilling set BSH 110
- Electrical System
  - Plug for cable
  - Switch gear
- Miscellaneous
  - Service platform SP2
  - Pipe Roofing kit (89mm, 115mm & 140mm dia.)
  - Hydraulic, Swellex pump kit for manual installation
  - FOPS certified cabin, noise level <80 dB(A), height 3 044 mm including: Air-conditioning unit
  - Rod Adding System, RAS
  - Feed angle measurement system with drill plan handling and navigation, FAM 3
  - Measure While Drilling (MWD)

### Dimensions

Width	2 550	mm
Height roof up/down	3 091/2 375	mm
Length with BMH 6814 feeds	14 169	mm
Ground clearance	290	mm
Turning radius outer/inner	8 200/4 800	mm

### Tramming Speed

On flat ground (rolling resistance 0.05)	>14	km/h
On incline 1:8	>6	

### Weight

Gross weight, depending on configuration	
Total, min./max.	27 000/33 000 kg
Boom side, min./max.	20 000/24 000 kg
Engine side, min./max.	7 000/9 000 kg

### Recommended cable size and length

Voltage	Type	Dimension, mm <sup>2</sup>	Diameter	Length
380-400 V	Ho7RN-F	4X150	67mm	60mm

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