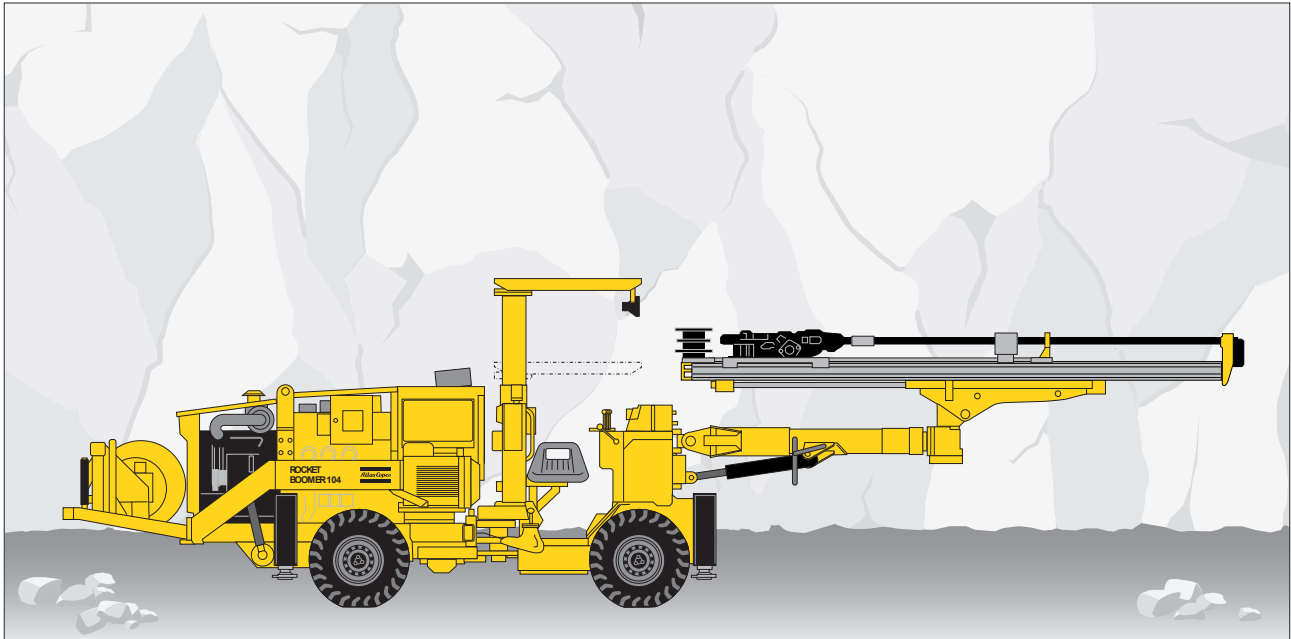


Rocket Boomer[®] 104^{D18}

Technical specification



Direct controlled hydraulic tunnelling and mining rig with one BUT 4 boom and COP 1838 rock drill for high speed drilling in narrow vein mining.

Features

»Rock drill

- COP 1838 rock drill with double reflex dampening
- New lubrication system with separate lubrication of driver and gear, pressurized sidebolts and mating surfaces

»Drilling system

- Direct controlled drilling system which incorporates anti-jamming function RPCF (Rotation Pressure Controlled Feed force)
- Separate pumps for percussion, dampening/positioning and rotation

»Hydraulic boom

- BUT 4 heavy-duty booms with adjustable expanding shafts in all boom joints

»Hydraulic feed

- BMH 2800 heavy-duty aluminium feeds with double bottom for high torsional resistance
- Snap-on stainless steel sleeves and polymer contact pads

»Carrier

- Sturdy, articulated carrier with four wheel drive
- Powered by a 4-cylinder, low emission diesel engine
- Four jacks for stable set up

»General

- FOPS approved protective roof
- Driver's seat
- Electric driven piston compressor
- Water booster pump
- Cable reel
- Working lights

Specifications

» Rock drill

- COP 1838ME-05
- Shank adapter R32, R38 or T38
- Height over drill centre 88 mm
- Impact power 20 kW
- Impact rate 60 Hz
- Hydraulic pressure, max. 230 bar
- Rotation system separate rotation
- Rotation speed 0-300
- Rotation torque, max. 540 Nm
- Lub. air consump. (at 2 bar) 5 l/s
- Water consumption 1.1 l/s
- Weight 171 kg
- Sound level <106 dB(A)

» Feed

- | | BMH 2825 | BMH 2831 | BMH 2837 |
|-------------------------------|----------|----------|----------|
| • Total length, mm | 4087 | 4677 | 5287 |
| • Drill steel length, mm | 2500 | 3090 | 3700 |
| • Hole depth, (mm) | 2205 | 2795 | 3405 |
| • Weight, incl.rock drill, kg | 455 | 470 | 490 |
| • Feed force, kN | 15 | 15 | 15 |

» Boom

- Feed extension 1500 mm
- Boom extension 900 mm
- Feed roll-over 360°
- Feed rotation ±98°
- Feed dump cylinder +18°/-100°
- Max. swinging angle ±30°
- Weight, boom only, kg 1000

» Hydraulic system

- Hydraulic pumps 1 unit
- Pumps unloaded at start
- System pressure bar, max 150–230
- Hydraulic oil tank, volume litre max/min 124
- Low oil level indicator
- Oil temperature meter on oil tank
- Electrical oil filling pump
- Oil filter indicator
- Water cooled oil
- Filtration, µm 16
- Mineral hydraulic oil

» Air System

- Compressor Atlas Copco LE3
- Capacity, max at 7 bar 4.4 l/s
- Air pressure gauge

» Water System

- Hydraulic driven water booster pump CR5-13
- Water booster pump max capacity at 7 bar, l/min 80
- Min water inlet pressure, bar 2

» Engine

- Deutz 4-cylinder, F4L 912W, 4 stroke prechamber
- Power rating at 2300 rpm 42 kW (57 hp)
- Torque at 1550 rpm 198 Nm

» Carrier

- Articulated steering ±40° steering angle
- Fixed seat for tramming
- Four wheel drive
- Hydrostatic power steering system
- Hydrostatic transmission
- Front axle Dana 171
- Rear axle Dana 171, ±7 ° oscillation
- Tires Michelin 8.25 x R15 XZM
- Clearance outside axles 15°
- Hydraulic jacks, front 2 extendable
- Hydraulic jacks, rear 2
- Service brakes 2 separate circuits
- Emergency and parking brakes SAHR
- Fuel tank, volume 60 l
- Electric system 24 V
- Batteries 2 x 70 Ah
- Tramming lights 4 x 70 W
- Working lights 2 x 200 W, 24 V
- Central lubrication system
- Spirit level
- Fire extinguisher
- Gradeability at max. load on drive wheels 1:4
- Horn
- Beacon warning lamp
- Back-up alarm

» Electrical system

- Total installed power 54 kW
- Main motors 1 x 55 kW
- Voltage 380–1000 V
- Frequency 50–60 Hz
- Starting method star/delta (380–690 V) direct (1000 V)
- Thermal overload protection for electric motors
- Percussion hour meter on operator's display
- Digital volt/amperage meter in electric cabinet
- Phase sequence indicator
- Earth fault indicator
- Battery charger
- Transformer 1.8 kVA
- Cable reel, inner/outer diameter, mm 500/740

Specifications

DRIFTER RODS

Dimension		Min. hole diameter
mm	R38-HEX 35-R32	45
	R38-HEX 32-R32	41
	R38-HEX 32-R28	41
	T38-HEX 35-R32	48
	T38-HEX 35-R32 Speedrod	48

EXTENSION RODS FOR INJECTION DRILLING/RAS

Dimension		Min. hole diameter
mm	R32 Speedrod	51
	T38 Speedrod	64

SHANK ADAPTERS

Thread	Diameter	Length	Part No.	
mm	R38	38	485	7804 3590 03
	T38	38	485	7304 3590 03
	R32	38	575	7803 3593 01*
	T38	38	575	7304 3593 01*

*Intended for RAS and extension drilling with BSH 110

COUPLINGS

Thread	Diameter	Length	Part No.	
mm	R38	55	170	7994 3655 00
	T38	55	190	7314 3355 00
	T38	52	190	7314 3352 00

Optional Equipment

» Rock drill/Drill system

- Hole blowing kit with external air supply
- Rock drill lubrication warning kit
- Big hole drilling kit

» Feed

- Hydraulic feeds BMHE 2000 and BMHS 2000
- Extension drilling set BSH 110

» Boom

- FAM 104 parallel holding

» Water system

- Water flow guard

» Hydraulic system

- Biodegradable hydraulic oil
- Thermostat
- Heater kit for oil tank
- Electric oil filling pump

» Carrier

- Exhaust water scrubber
- Exhaust catalyser
- Fire suppression system ANSUL
- Check fire system for ANSUL
- High altitude setting of diesel engine
- Working lights halogen, 2x500W

» Cabin

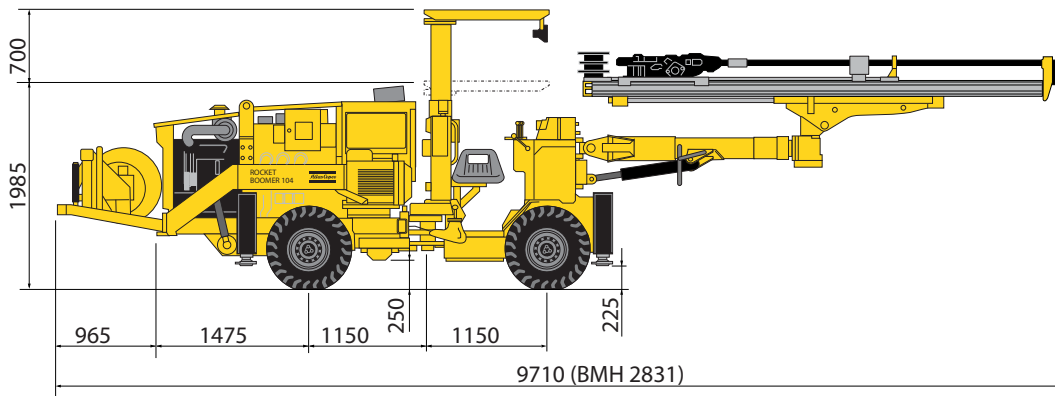
- Cabin
- Air condition unit for cabin
- Heater for cabin, 1.2 kW

» Electrical system

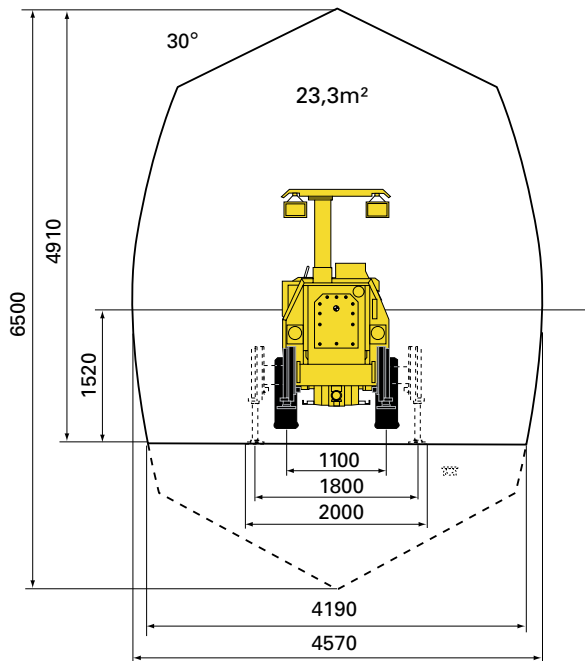
- Electric cable type RDOT or Buflex
- Plug for cable
- Power supply (incl. male plug)
- Electric outlet for accessories, 32 A
- Electrical system 1000 V, direct start only
- CSA approved electrics (Canadian regulations), direct start only
- Australian electrics according to AUS 3000

Measurements

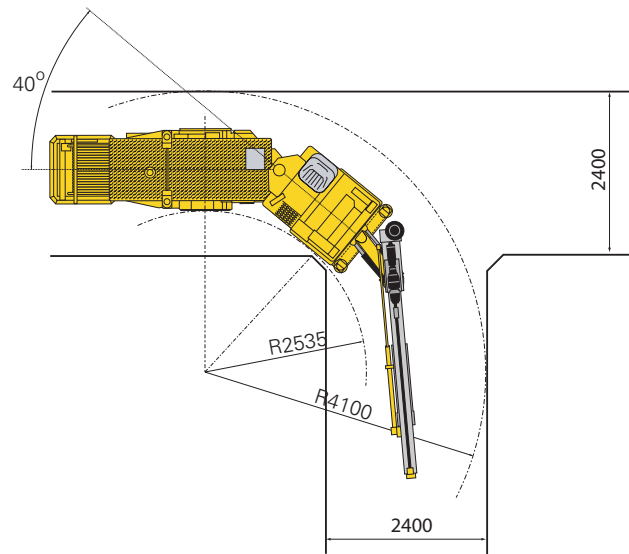
SIDE VIEW



COVERAGE AREA



TURNING RADIUS



DIMENSIONS

mm		
	Width	1220
	Height, roof down	1985
	Height, roof up	2685
	Length with BMH 2837 feeds	9710
	Ground clearance	250

TRAMMING SPEED

km/h		
	On flat ground (rolling resistance 0.05)	>8

WEIGHT

gross weight	
kg	Total 9000

RECOMMENDED CABLE SIZE AND LENGTH

Voltage	Type	Dimension, mm ²	Diameter, mm	Length, m
380–400 V	Buflex	3x50+3x10	33	85
440–700 V	RDOT	4x35	38	85
1000 V	Buflex	3x25 + 3x6	26	140

Max length 85 mm, fully would RDOT 35 with D=38. Recommendations are given for surrounding temperature of 40° C.