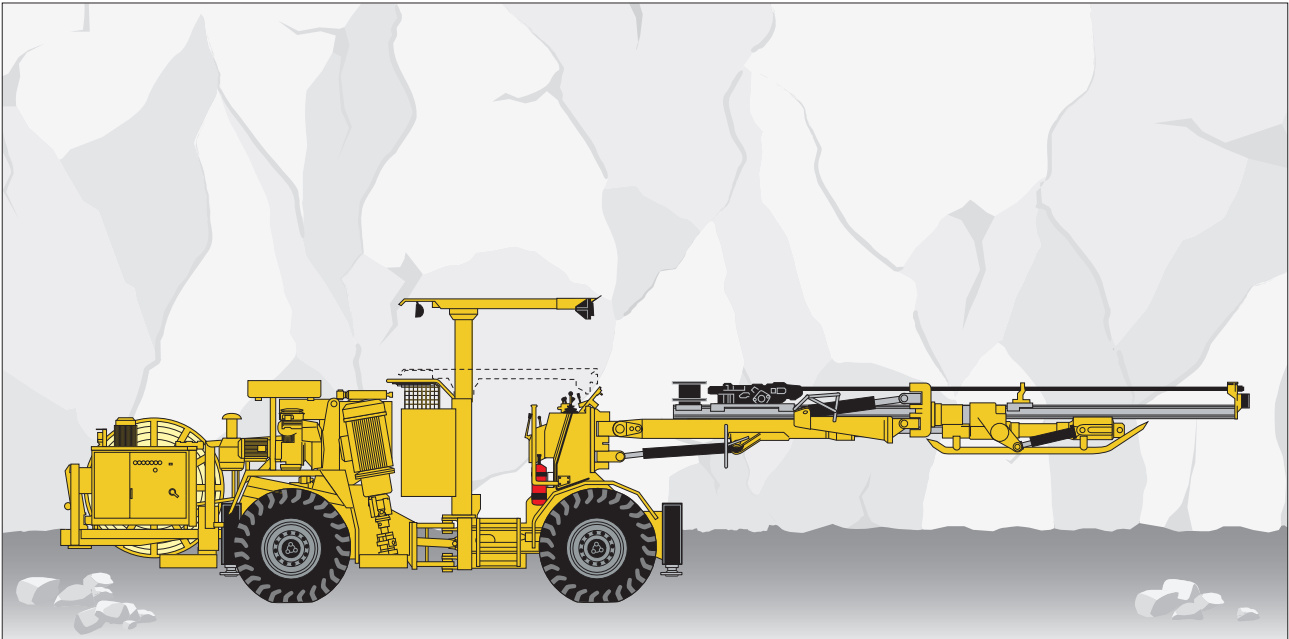


Rocket Boomer[®] 282^{D18}

Technical specification



Direct controlled hydraulic tunnelling and mining rig with two BUT 28 booms and COP 1838 rock drills for high speed drilling.

Features

»Rock drill

- COP 1838 rock drills 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 28 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 5-cylinder, low emission diesel engine
- Four jacks for stable set up

»General

- FOPS approved protective roof
- Cable reel
- 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 0–340 rpm
- Rotation torque, max. 545 Nm
- Lub. air consump. (at 2 bar) 5 l/s
- Water consumption 1.1 l/s
- Weight 170 kg
- Sound level <106 dB(A)

» Feed

- | | | | | |
|-----------------------------------|------------|------------|------------|----------|
| • BMH 2800 | BMH 2831 | BMH 2837 | BMH 2843 | BMH 2849 |
| • Total length, mm 3090 | 3700 | 4310 | 4920 | |
| • Drill steel length, mm ... 2795 | 3405 | 4015 | 4625 | |
| • Hole depth, (mm) 4677 | 5287 | 5897 | 6507 | |
| • Weight, incl.rock drill, kg 475 | 495 | 525 | 540 | |
| • Feed force, kN 15.0 | 15.0 | 15.0 | 15.0 | |

» Boom

- BUT 28
- Feed extension 1250 mm
- Boom extension 1250 mm
- Parallel holding complete
- Feed roll-over 360°
- Max. lifting angle +65°/-30°
- Max. swinging angle out 45°/in 25°
- Weight, boom only, kg 1750

» Hydraulic system

- Hydraulic pumps 2 separate units
- Pumps unloaded at start
- System pressure bar, max 150–230
- Hydraulic oil tank, volume liter max/min 195
- Low oil level indicator
- Oil temperature meter on oil tank
- Oil filter indicator
- Water cooled oil
- Filtration 16 µm
- Mineral hydraulic oil
- Two operator's control panel

» Air System

- Compressor Atlas Copco LE7
- Capacity, max at 7 bar 12.5 l/s
- Air pressure gauge

» Water System

- Water booster pump CR10–16 or CR10–10
- Water booster pump max capacity at 13.5 bar, l/min 100
- Min water inlet pressure, bar 2

» Engine

- Deutz 5-cylinder, F5L 912W, 4 stroke prechamber
- Power rating at 2500 rpm 55 kW (75 hp)
- Torque at 1550 rpm 230 Nm

» Carrier

- Articulated steering +/-41° steering angle
- Fixed seat for tramping
- Four wheel drive
- Hydrostatic power steering system
- Hydrostatic transmission
- Front axle Dana 176
- Rear axle Dana 176, +/- 8 ° oscillation
- Automatic differential lock on rear axle
- Tires Michelin 12.00 R20 XMINE D2
- 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
- Tramping lights 8 x 70 W
- Working lights 3 x 500 W
- 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 121 kW
- Main motors 2 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 meters
- Digital volt/amperage meter in electric cabinet
- Phase sequence indicator
- Earth fault indicator
- Battery charger
- Transformer 5.5 kVA
- Cable reel, inner/outer diameter, mm 660/1395

Specifications

DRIFTER RODS

| Dimension | | Min. hole diameter |
|-----------|--------------------------|--------------------|
| mm | R38-HEX 35-R32 | 45 |
| | T38-HEX 35-R32 | 45 |
| | T38-HEX 35-R32 Speedrod | 45 |
| | R38-HEX 35-SR35 Speedrod | 45 |
| | T38-HEX 35-SR35 | 45 |
| | T38-Rnd 39-SR35 | 45 |
| | T38-HEX 35-R35 | 48 |
| | T38-HEX 35-R35 Speedrod | 48 |
| | T38-Rnd 39-R35 | 48 |
| | T38-Rnd 39-R35 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 | 435 | 7804 3590 03 |
| | T38 | 38 | 435 | 7304 3590 03 |
| | R32 | 38 | 525 | 7803 3593 01* |
| | T38 | 38 | 525 | 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 |

Optional Equipment

» Rock drill/Drill system

- Hole blowing kit with external air supply
- Hole blowing kit with 2 x 50 l air receiver
- Rock drill lubrication warning kit for two booms
- Big hole drilling kit
- Dry drilling system
- Water mist flushing with external water and air supply

» Feed

- Telescopic feed BMHT 2800-series
- Extension drilling set BSH 110

» Boom

- FAM 1 Electronic look-out indicator
- FAM 2 Electronic look-out indicator with hole depth measuring
- Automatic boom lubrications system, rear part of boom

» Water system

- Water flow guard
- Water hose reel dia. 1100 mm for hose dia. 1½"
- Water hose 60 m, dia. 1½"
- Water mist flushing with external water and air supply

» Hydraulic system

- Heater kit for oil tank , 2 x 500 W
- Electric oil filling pump
- Biodegradable hydraulic oil
- Thermostat

» Carrier

- Exhaust catalyser
- Exhaust water scrubber

- Fire suppression system ANSUL
- Check fire system for ANSUL
- High altitude setting of diesel engine
- Shelves for drill bits and tools
- Dual controls for hose reel
- Dual controls for cable reel

» Cabin

- Air condition unit for cabin
- Heater for cabin, 1.2 kW
- Illuminated stairs for platform/cabin

» Electrical system

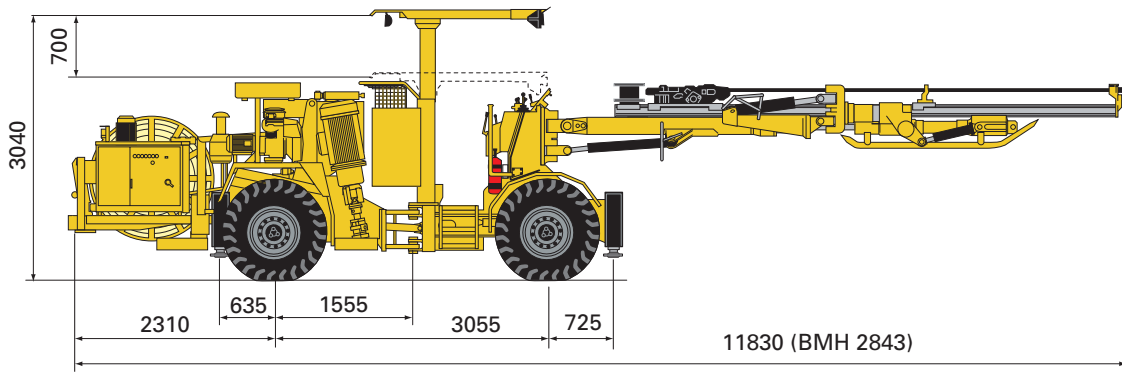
- Electric cable type RDOT or Buflex
- Plug for cable
- Power supply (incl. male plug)
- Limit switch for cable reel, lamp indicator
- Limit switch for cable reel, lamp indicator and brake connection
- Cable reel with extra width 300 mm
- Electric outlet for accessories, 32 A
- Electrical system 1000 V, direct start only
- CSA approved electrics (Canadian regulations), direct start only
- Australian electrics according to AUS 3000

» Miscellaneous

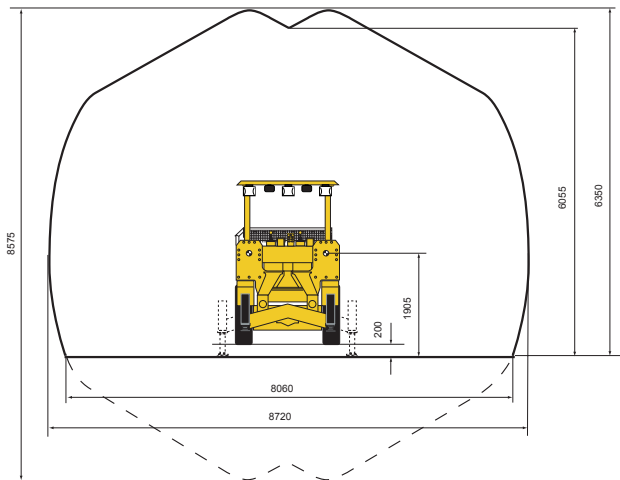
- Hydraulic Swellex pump
- Rig washing kit
- Manual lubrication system

Measurements

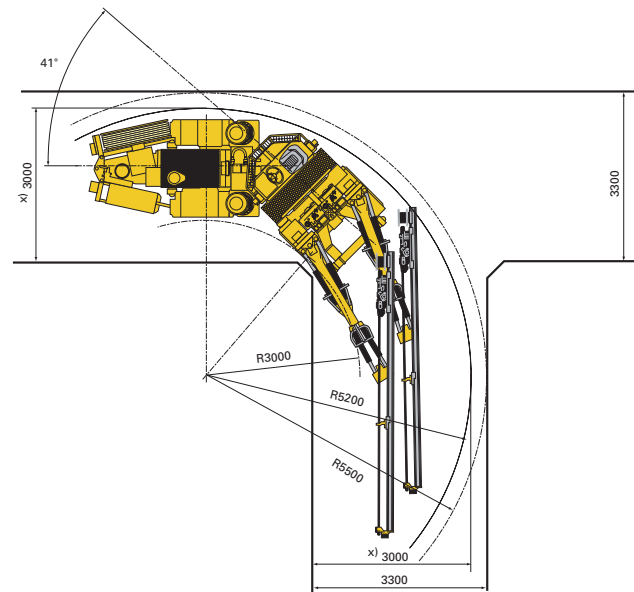
SIDE VIEW



COVERAGE AREA



TURNING RADIUS



DIMENSIONS

| mm | | |
|----|----------------------------|-------|
| | Width | 1990 |
| | Height, roof down | 2340 |
| | Height, roof up | 3040 |
| | Lenght with BMH 2343 feeds | 11830 |
| | Ground clearance | 305 |

TRAMMING SPEED

| km/h | | |
|------|---|-------|
| | On flat ground (rolling resistance 0.05) | >13 |
| | On incline 1:8 | > 4.5 |

WEIGHT

| gross weight | | |
|--------------|-----------------------|-------|
| kg | Total | 18000 |
| | Axle load boom side | 13200 |
| | Axle load engine side | 4800 |

RECOMMENDED CABLE SIZE AND LENGHT

| Voltage | Type | Dimension, mm ² | Diameter, mm | Lenght, m |
|-----------|--------|----------------------------|--------------|-----------|
| 380–440 V | RDOT | 4x70 | 49 | 60 |
| 500–550 V | RDOT | 4x50 | 44 | 65 |
| 660–690 V | RDOT | 4x35 | 38 | 95 |
| 1000 V | Buflex | 3x35 + 3x6 | 24 | 185 |

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