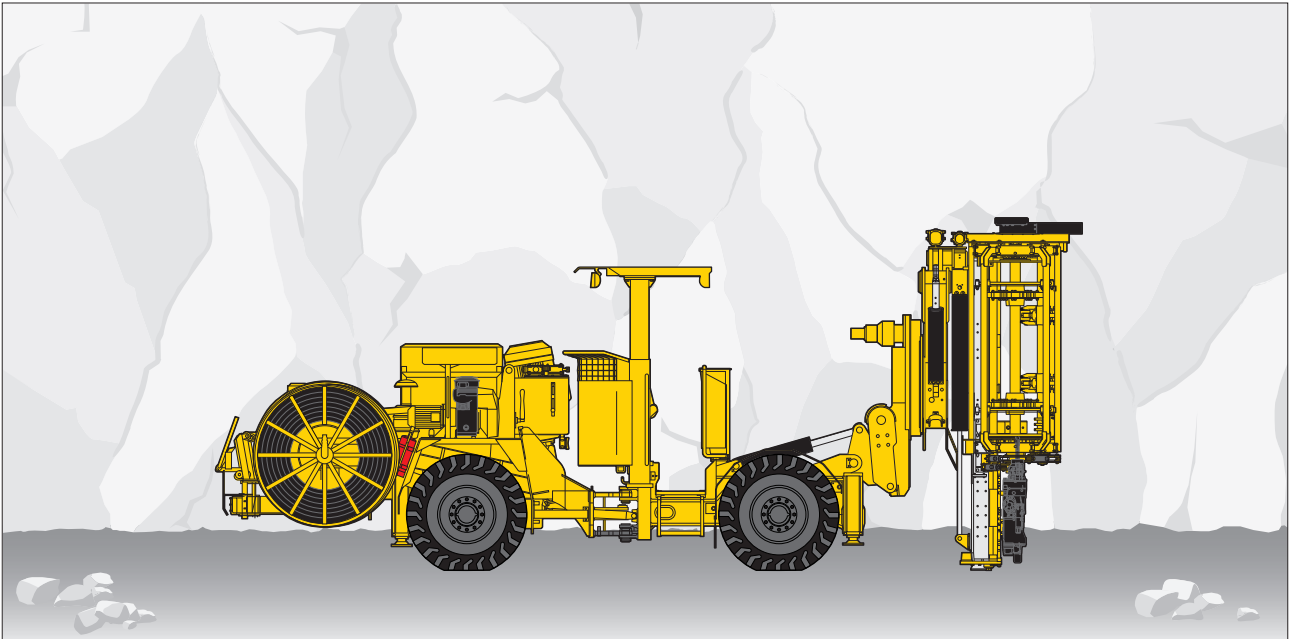


Simba 1354

Technical specification



Production drilling rig adapted for small- to medium-sized drifts. Equipped with topammer rock drill for the hole range 51–89 (102) mm and a versatile positioning unit to match various methods in production drilling.

Standard features

» Rock drill

- Atlas Copco COP 1800-series
- Dual-damping system for shock wave absorption and continuous rock contact for high penetration
- Lubricated and pressurized mating surfaces giving long service intervals
- Shank adapters suitable for the given hole range

» Drilling unit

- Mechanized rod handling system
- Feed with hydraulic two-stage cylinder
- Front- and rear-mounted stinger
- Drill steel support for guidance during collaring and as support during rod handling

» Positioning unit

- Tilt, rotation, pendulum arm and slide table
- Accurate and smooth movements
- Mine-adapted, sturdy components

» Control system

- Electrical Direct System (EDS)
- Anti-jamming system

» Carrier

- Mine-adapted carrier for small- to medium-sized drifts with articulated steering and four-wheel drive

» General

- Trolley-mounted operator panel
- FOPS-approved protective roof
- Electrical cable reel
- Working lights on tripods

Specifications

ROCK DRILL	
COP 1838ME	
Shank adapter	R32, T38, T45, (T51)
Hole diameter	51–89 mm
Impact power	18 kW
Impact rate	54 Hz
Hydraulic pressure, max.	250 bar
Rotation motors	Separate rotation
Rotation speed	0–210/0–140 rpm
Lub. air consump. (at 3 bar)	5 l/s
Water consumption	50 l/min
Weight	171 kg

FEED			
BMH 200	BMH 214	BMH 215	BMH 216
Total length	3 160 mm	3 465 mm	3 770 mm
Drill rod length	1 220 mm	1 525 mm	1 830 mm
Total length with extractor	3 365 mm	3 670 mm	3 975 mm

» Drilling unit

- Rod Handling System, RHS 17..... 17+1 rods
- Adaptable to 4', 5' and 6' rods
- Adaptable to R32, T38, T45, (T51) Speedrods
- Adaptable to TDS 56 and TDS 64 drill tubes
- Mechanized drilling up to 32 m

» Positioning system

- Feed extension (with 4' drill steel)..... 900 mm
- Feed extension (with 5' and 6' drill steel) 1 200 mm
- Rotary Acuator BHR 60–2 for 360° ring drilling
- Sliding table BHT 150 gives 1.5 m feed parallel positioning
- Pendulum arm, BHP 150 gives 1.5 m feed parallel positioning in the side walls. Adds additional 1.5 m feed parallel positioning upwards/downwards.
- Stinger backward on feed BSJ 8-200
- Stinger forward on feed BSJ 8-115
- Feed dump, drilling +20° forward and -65° backward
- Rig Alignment Laser RAL650

» Control system

- Electrical Direct System, EDS
- Basic functions such as semi-automatic drilling and anti-jamming included

» Power pack

- Hydraulic pump for percussion, positioning, feed
- Hydraulic pump for rotation
- Pumps unloaded at start
- System pressure, max..... 230 bar
- Hydraulic oil tank, volume..... 160 l
- Low oil level indicator and shut-down
- Oil temperature gauge on oil tank
- Electric oil filling pump
- Filtration, absolute..... 16 µm
- Oil filter indicator
- Water cooled oil cooler in stainless steel
- Mineral hydraulic oil
- Rock drill lubrication warning kit
- Hydraulic oil thermostat

» Electrical system

- Total installed power 70 kW
- Main motor at 50 Hz 55 kW
- Voltage..... 380–1 000 V
- Frequency 50–60 Hz
- Starting method star/delta (380–690 V) direct (1 000 V)
- Thermal overload protection for electric motors
- Percussion hour meters on A-panel
- Digital volt/amperage meter in electric cabinet
- Phase sequence indicator
- Earth fault indicator
- Battery charger
- Transformer 4 kVA
- Cable reel
- Limit switch for cable reel
- Working lights on tripods 2 x 200 W, 24 V

» Air system

- Lubricated air for the rock drill
- Compressor Atlas Copco LE7
- Capacity at 5 400 rpm and 7 bar 12 l/s
- Air pressure gauge
- Adjustable flow/pressure
- Hole blowing kit with external air
- Air flow guard
- Lubrication oil consumption

» Water system

- Electrically driven water booster pump
- Capacity at 10 bar boost max 100 l/min
- Min water inlet pressure 2 bar
- Water pressure gauge
- Water flow guard

» Carrier

- Deutz 4-cylinder D914 L04, EPA III/COM III (Tier 3/Stage IIIA) approved 4-stroke prechamber diesel engine
- Power rating at 2 300 rpm 55 kW (75 hp)
- Torque at 1 500 rpm 270 Nm
- Fixed seat for tramming, including safety belt
- Articulated steering ±41° steering angle
- Four-wheel drive
- FOPS-approved protective roof
- Hydrostatic power steering system
- Hydrodynamic transmission..... Dana T12000
- Front axle Dana 176
- Rear axle..... Dana 176, ±8° oscillation
- Tyres 12.00 x R20
- Clearance outside axles 15°
- Hydraulic jacks, front..... 2 extendable
- Hydraulic jacks, rear 2
- Service brakes 2 separate circuits (hydraulically applied, fully enclosed wet disc brakes)
- Emergency and parking brakes SAHR
- Fuel tank, volume..... 60 l
- Electric system 24 V
- Batteries 2 x 70 Ah
- Tramming lights 8 x 70 W
- Brake lights
- Illuminated stairs for platform
- Central lubrication system
- Catalyser and silencer
- Fire extinguisher
- Spirit levels
- Gradeability at max load on drive wheels..... 1:4
- Tramming speed, flat ground/incline 1:8 >10/>4 km/h
- Horn, beacon and reverse alarm
- 12V Outlet
- Rig Alignment Laser, RAL 650

Specifications

DRILL STEEL				
Rock drill	Hole diameter, mm	Drill rod	Shank adapter	Guide tube
COP 1838ME	51–64	R32 Speedrod	R32	TDS 45
COP 1838ME	64–76	T38 Speedrod	T38	TDS 56/TDS 64
COP 1838HE	76–89	T45 Speedrod	T45	TDS 64/TDS 76
COP 2550UX	76–89	T45	T45	TDS 64
COP 2550UX	89 (–102)	T51	T51	TDS 76
COP 2550UX	89–102	TDS 64/TDS 76	ST58	N/A

Optional equipment

» Drilling system

- Water mist flushing, water oil cooler, external air supply
- Water mist flushing, air oil cooler, external air supply
- COP 1838MUX, COP 1838HE, COP 1838HUX, COP 2550UX

» Positioning system

- Angle Reading Instrument, ARI 6C, with/without hole depth measurement
- Thread lubrication kit
- Rod handling system RHS 27 (up to 51 m)
- Automatic lubrication for positioning/drilling system
- Central lubrication for positioning/drilling system
- Additional stinger backwards

» Carrier

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

» Electrical system

- Electrical cable on reel, Buxflex
- Plug PC4
- Socket PC4
- Switch gear
- Electrics according to local standards
- Working lights on tripods, 2x500 W, 230 V

» Water system

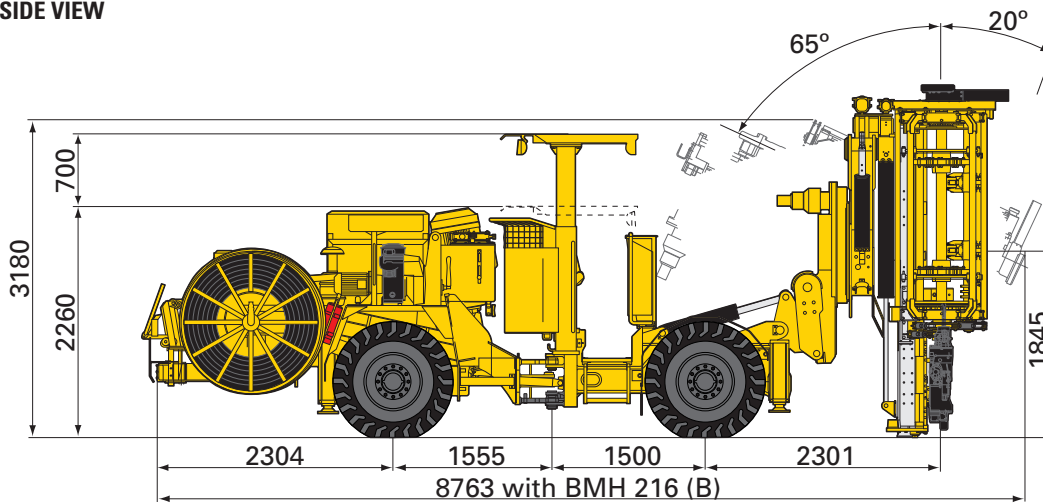
- Waterhose reel

» Miscellaneous

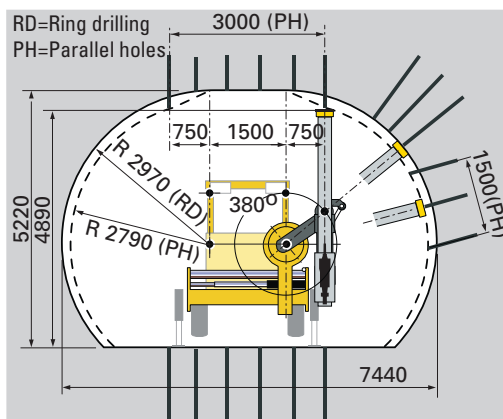
- Manual lubrication kit
- Rig washing kit
- Shelf for drill bits and tools
- Manual spotlight

Measurements

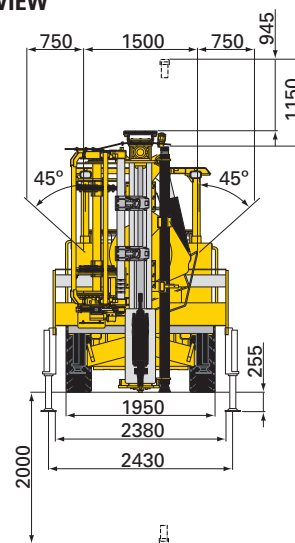
SIDE VIEW



COVERAGE AREA



FRONT VIEW



TURNING RADIUS

depending on surface

mm		
	Outer	5 440
	Inner	2 890

DIMENSIONS

mm		
	Width	1 950
	Height tramming	3 180
	Height roof up	2 960
	Length (with BHM 214/215/216) (B)	8 209/8 486/8 763
	Ground clearance	280

WEIGHT

gross weight

kg		
	Total	15 000

RECOMMENDED CABLE SIZE AND LENGTH

Voltage	Type	Dimension, mm ²	Diameter, mm	Length, m
380–400 V	Buflex	3x70+3G16+2x1.5	37 mm	95 m
440–575 V	Buflex	3x50+3G10+2x1.5	32 mm	140 m
660–690 V	Buflex	3x35+3G6+2x1.5	28 mm	185 m
1 000 V	Buflex	3x35+3G6+2x1.5	28 mm	185 m

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