

SIMBA H1254 UNDERGROUND DRILLS

TECHNICAL SPECIFICATION



Ergonomic controls and accessible service points make it easier for operators to reach higher levels of production.

Simba 1254 Balanced production drill rig

The Simba 1254 is widely used in medium-drift mining for long-hole production drilling. It is capable of ring drilling and parallel drilling in 3 m lateral displacement with high performance top-hammer rock drill and angle reading system. The Simba 1254 offers sustainable high precision solution for long-hole drilling.

+ Main benefits

Mechanized drilling The hydraulic drilling system relieves number of people working in site and their intensity of work while reducing personnel injury and health harm in order to meet more and more rigorous legislation requirement.

High penetration The high frequency of hydraulic rock drill and sturdy feed beam with angle reading system offers high penetration rate of drilling and precise hole linearity.

Flexibilities The small profile of carrier DC 11 combined with multi-length of feeder has both benefits of tramming in limited tunnel and drilling in uncompromising application. The versatile positioning unit and water-mist bring 360° and 3 m parallel drilling patterns.

The Simba 1254 drilling unit is mounted on a sliding table, the rotator and the pendulum arm gives the drill rig easy positioning set up and steady, accurate drilling

Mobile control panel keeps the operator at a safe distance from the drilling area



Versatile positioning system supplies 3 meters parallel in horizontal and 360° ring pattern.



Digitized angle reading system helps operators to fulfill more accurate hole angle and depth.



Sturdy stingers on front and rear to support drilling in steady position, that increases accuracy of drilling and decreases consumption of drill string.

The mechanized rod handling system relieves operators from heavy lifting work and is therefore an essential feature for maintaining high productivity

FOPS approved canopy protects operators in safe place

Hydraulic driven cable reel releases work intensity for operator, and adds more time for drilling



A classic rig for long hole production drilling

The Simba 1254 is equipped with well-known carrier and drilling components with sustaining updatings. It offers great reliability while making dependable productivity. The damping and anti-jamming function bring better drill steel economy.



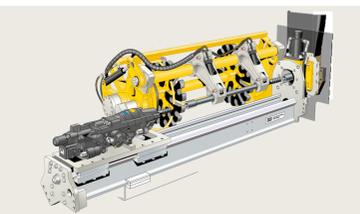
+ COP 1838+ rock drill of high speed penetration rate

The COP 1800+ series is created to offer you with increased service intervals, up to 400 drilling hours, giving higher machine utilization and reduced operation costs.



+ 360° drilling

The Simba 1254 equipped with water-mist system is able to drill both upwards and downwards which provides versatile drilling patterns for you.



+ Rod handling system

The mechanized rod handling system relieves the operator from heavy lifting work and is therefor an essential feature for maintaining high productivity.

The Simba 1254 is a hydraulic production drill rig made for limited tunnel sizes. The high penetration rock drills give you the power to increase your production, no matter the rock conditions. Dual stingers with an angle reading system make setup quick and easy, while increasing drilling stability and accuracy. Ergonomic control and accessible service points make it easier for operators to reach higher levels of production. When you need a high-precision, hard-working rig for long-hole drilling, you can rely on the Simba 1254.

Technical Specifications

Rock drill

	COP 1838+
Shank adapter	T38E, T45E
Hole diameter	64-89 mm
Max. impact power	18 kW
Impact rate	60 Hz
Hydraulic pressure(maximum)	230 bar
Torque (maximum)	640/1 000 Nm
Rotation motors	Separate rotation
Rotation speed	0-215 rpm
Lub. air consump.(at 2 bar)	5 l/s
Water consumption 50 l/min	40-120 l/min
Weight	170 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

Drilling unit

- Rod Handling System, RHS 17.....17+1 rods
- Adaptable to 4', 5' and 6' rods
- Adaptable to T38, T45 Speedrods
- Adaptable to TDS56, TDS64 and TDS76 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).....1200 mm
- Rotary Acurator BHR 30 for 360° ring drilling
- Sliding table BHT 15 gives 1.5 m feed parallel positioning
- Pendulum arm, BHP 12 gives 1.5 m feed parallel positioning in the side walls. Adds further 1.5 m feed parallel positioning upwards/downwards.
- Stinger backward on feedBSJ 8-115
- Stinger forward on feedBSJ 8-115
- Feed dump, drilling.....+20° forward and -80° 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.....124 l
- Low oil level indicator and shut-down
- Oil temperature gauge on oil tank, electronically supervised
- Electric oil filling pump
- Filtration, absolute.....16 µm
- Oil filter indicator
- Water cooled oil cooler in stainless steel
- Mineral hydraulic oil

Electrical system

- Total installed power.....65 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/ampere meter in electric cabinet
- Phase sequence indicator
- Earth fault indicator
- Battery charger
- Transformer.....5 kVA
- Working lights on tripods.....2x200 W, 24V
- Cable reel, inner/outer diameter.....660/1 095 mm
- Limit switch for cable reel
- Angle reading instrument ARI 6C
- Electric cable, Buflex
- Rock drill lubrication warning kit

Air system

- Compressor.....Atlas Copco LE7
- Capacity at 5400 rpm and 7 bar.....12 l/s
- Air pressure gauge
- Hole blowing kit with external air

Water system

- Electric 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

- Engine.....Deutz TCD3.6 L4, China stage III
- Power rating at 2300 rpm.....55.4 kW
- Torque at 1300 rpm390 Nm
- Fixed seat for tramping, including safety belt
- Articulated steering.....+41° steering angle
- Four-wheel drive
- FOPS-approved protective roof
- Hydrostatic power steering system
- Hydrodynamic transmission.....Clark 24000
- Front axleDANA 112
- Rear axle.....DANA 112, ±10° oscillation
- Automatic differential lock on front axle, limited slip
- Tyres.....8.25-15
- 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.....2x70 Ah
- Tramping lights.....8xLED
- Brake lights
- Illuminated stairs for platform
- Central lubrication system
- Catalyser
- Silencer
- Fire extinguisher
- Spirit levels
- Gradeability at max load on drive wheels.....14
- Tramping speed on flat ground.....>10 km/h
- Tramping speed on incline 1:8.....>4 km/h
- Horn, beacon and reverse alarm
- Outlet for communication radio.....12 V

Technical Specifications

Drill steel

Rock drill	Hole diameter, mm	Drill rod	Shank adapter	Guide tube
COP 1838*	64-76	T38 Speedrod	T38E	TDS 56/TDS 64
COP 1838*	76-89	T45 Speedrod	T45E	TDS 64/TDS 76

Optional equipment

Drilling system

- Water mist flushing, water oil cooler, external air supply
- Water mist flushing, air oil cooler, external air supply

Positioning system

- Hole depth measurement for ARI 6C
- Thread lubrication kit
- Automatic lubrication for positioning/drilling system
- Central lubrication for positioning/drilling system

Carrier

- Fire suppression system, manual/CheckFire

Electrical system

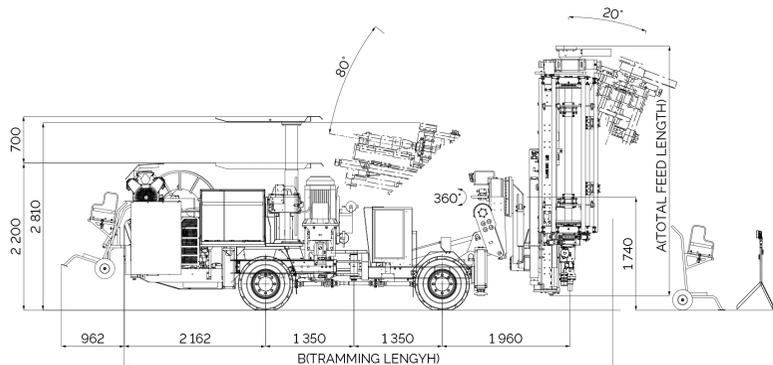
- Plug PC4
- Socket PC4
- Switch gear

Miscellaneous

- Manual lubrication kit
- Rig washing kit

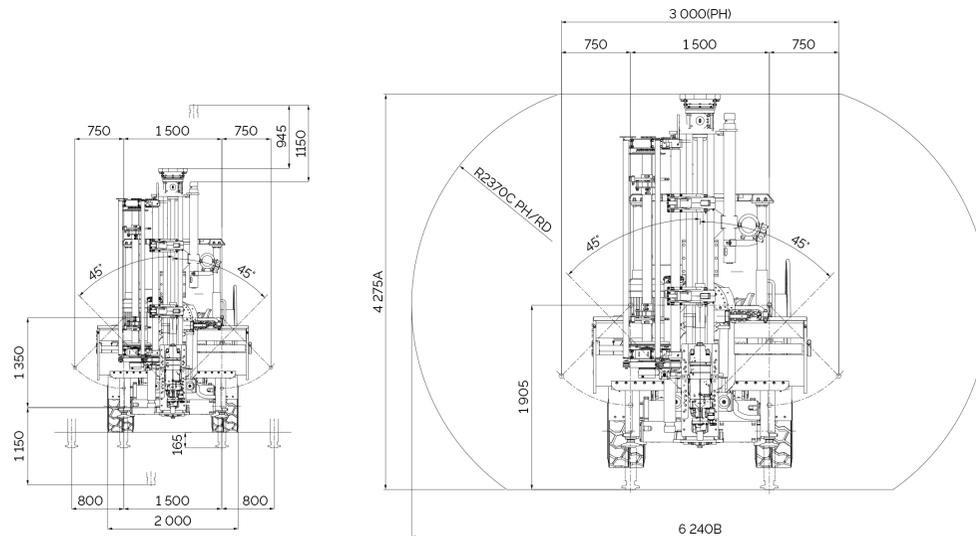
Measurements

Side view



Technical Specifications

Coverage area



	BMH 214	BMH 215	BMH 216
A	3665	3970	4275
B	5020	5630	6240
C	1760	2065	2370

Turning radius

Depending on surface		
mm	Outer	5 100
	Inner	2 500

Weight

Gross weight		
kg	Total	12 500

G = Protection yellow/green
 Recommendations are given for surrounding temperature of 40°C.

Recommended cable size and length

Voltage	Type	Dimension, mm ²	Diameter, mm	Length, m
380-400 V	Bufltex	3x70-3G16-2x1.5	37	125
440-575 V	Bufltex	3x50-3G10-2x1.5	32	150
660-690 V	Bufltex	3x35-3G6-2x1.5	28	205
1 000 V	Bufltex	3x35-3G6-2x1.5	28	205

Dimensions

mm	Width	2 380
	Height tramping (A)	2 660/2 770/2 810
	Height roof up	2 920
	Length (with BHM 214/215/216) (B)	6 802/7 102/7 402
	Ground clearance	260