

Precise and flexible production drilling

The drill rigs in the Simba E7-series are suited for production drilling in medium to large sized drifts, in the 51 to 178 mm range. Equipped with a boommounted drilling unit, these machines are versatile and adaptable to any challenge, for example drilling parallel holes upwards and downwards with up to 6.9 m spacing.

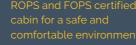
(+) Main benefits

Adaptable to all types of drilling thanks to the boom mounted drilling unit and a boom that can handle large variety of drilling tools, including our most powerful rock drills

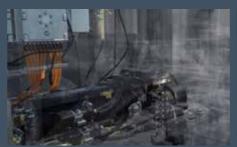
Highly customizable to suit your requirements in terms of performance, hole quality and drill steel economy

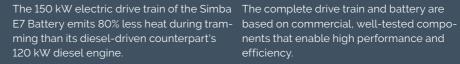
Increased productivity with tele-remote control capability and the Rig Control System (RCS) that features single/multi hole automated functions

ROPS and FOPS certified













industry's safest battery solution make it ideal for optimal production in demanding underground work environments.

Four mounted stingers for a rock solid set up for drilling

Automated bit changer as option on top hammer drill rigs provides greater utilization of the single/multi hole automation and increased operator safety



Fast and precise rock drilling for increased productivity

The Simba E7-series is flexible, high-performance production drill rigs, with fast positioning and a high level of hole accuracy. The impressive level of intelligence simplifies the operator's work, which contributes to increased productivity.



+ Safety

The Simba E7-series has a strong focus on safety. The operator sits in a ROPS and FOPS certified cab with excellent visibility and comfort. Optional tele-remote control improves safety even further by removing the operator from the machine and potentially hazardous areas. Barrier sensors protect the operator and maintenance staff from rotation parts during automatic drilling.



+ Automation

Higher equipment availability and enhanced overall productivity are benefits that come with the smart automation functions on the Simba. Operational efficiency is increased by allowing drilling through shift changes and breaks. The rig can be operated by remote control to increase productivity and operator safety and comfort.



+ Epiroc Rig Control System

We introduced the first version of our computerized drill rig control system in 1998 which took the market by storm. Throughout the years, the Rig Control System (RCS) has been refined and developed further to include increasingly sophisticated functions thanks to an ongoing dialogue with clients. More than 3 000 RCS-equipped rigs are currently in operation worldwide. At Epiroc, we continue to drive innovative development in the mining and tunneling industry.



A comprehensive service offering

Even the best equipment needs to be serviced regularly to make sure it sustains peak performance. An Epiroc service solution offers peace of mind, maximizing availability and performance throughout the lifetime of your equipment. We focus on safety, productivity and reliability.

By combining genuine parts and an Epiroc service from our certified technicians, we safeguard your productivity - wherever

Technical specifications

● = Standard ○ = Option

A = Simba ME7 B = Simba E7 C = Simba E7 ITH D = Simba with battery driveline

C D

0 0

0 0

0 0

0 0

A B 0 0

0 0

0 0 0 0

0 0 0 0

0 0 0 0

0 0 0 0 0 0

0 0 0 0 0 0 0 0

0 0 0 0

0 0 0 0

0 0 0 0

0 0 0 0

0 0 0 0

0

0 0

0 0

0 0

0 0 0 0 0 0

Drilling system	Α	В	С	D	Hydraulic system
COP 1838+	0			0	Low oil level indicator and shut-down
COP 1838MUX+, COP 1838HUX+	0			0	Smart oil leakage shut-down system
COP 2550UX+	0			0	Oil temperature gauge on oil tank, electronically supervised
COP 3060MUX		0		0	Hydraulic oil thermostat
COP 44 to COP 64			0	0	Water/oil cooler in stainless steel
COP 35				0	Filtration 16 µm
Dry drilling system	0	0		0	Oil filter indicator
Collar Pipe Inserter (CPI)	0	0		0	Mineral hydraulic oil
Bit changer, only with MUX/HUX/UX	0	0		0	Electrical oil filling pump
Water mist flushing, external water and air supply (hydraulic oil cooled by water cooler)	0	0	•	0	Heater kit for hydraulic oil tank, diesel engine and electric motors
Water mist flushing, external water and air supply (hydraulic oil cooled by air fan)	0	0		0	Biodegradable hydraulic oil
Hole blowing kit	0	0		0	Ni-Cr plated piston rods (limitations exist)
Rock drill lubrication warning kit	•	•		•	Control system
Thread lubrication kit	0	0	0	0	
					Kidney filter Epiroc Rig Control System (RCS)
Boom/drilling unit	Α	В	С	D	Advanced Boom Control (ABC) Regular
BUT 45 PDS					Advanced Boom Control (ABC) Total
BUT 45 PDL	•				
Rod Handling System, RHS 17 (17+1 rods) mechanized drilling					Breaktrough automatic stop
up to 30 m	•				Underground manager pro
Rod Handling System, RHS 27 (27+1 rods) mechanized drilling	0				Drill plan handling
up to 51 m	+	Ť	_	<u> </u>	Drill plan handling with raise view
Rod Handling System, RHS 35 (35+1 rods) mechanized drilling up to 63 m			0		Full drilling data handling
Adaptable to 4', 5' and 6' rods	•	•		•	Measure While Drilling (MWD)
Adaptable to TDS 64, TDS 76 drill rods	0			0	Void detection
Adaptable to TDS 76, TDS 89		0	0	0	Boom alignment laser
2 rear and 2 front stinger	•	•	•	•	Automatic parallel holding
Automatic lubrication for positioning unit	0	0	0	0	Remote cradle control/remote feed control
Central lubrication for drilling and positioning unit	•	•	•	•	Rig Remote Access (RRA)
					Mobile tele-remote/multi tele-remote
Electrical system	Α	В	С	D	Remote operating kit
Total installed drilling power 118 kW (main motors 2x55 kW)*	•	•	_		Additional panel
				0	Remote controlled camera on tripod with monitor in cabin
Total installed drilling power 63 kW (main motor 1x55 kW) Total installed drilling power 158 kW (main motor 1x95 kW,					Total station navigation
equipped with booster compressor)			0	0	Certiq professional
Total installed drilling power 158 kW (main motors 2x75 kW)**	0	0	0	0	Feed
24 V batteries 2x125 Ah	•	•	•	•	BMH 200-series 3 143 mm, 3 448 mm, 3 753 mm
Electric system 24 V	•	•	•	•	BMH 200-series (extractor) 3 348 mm, 3 653 mm, 3 958 mm*
700 V Battery 280 Ah				•	BMH 200-series 3316 mm, 3621 mm, 3926 mm**
Voltage 400-1 000 V 50/60 Hz	•	•	•	•	* +55 mm for COP 2550 UX
Starting method star/delta (400-690 V)	•	•	•	•	** +138 mm for hammer guide
Soft start of main electrical motors (not for 1 000 V)	0	0	0	0	
Electronic overload protection for electric motors	•	•	•	•	Air system
Digial voltmeter/amperage meter in electric cabinet	•	•	•	•	Compressor: Epiroc GAR 5
Electric outlet for accessories, 16 A (CE)/32 A (CE)	0	0	0	0	Compressor: Epiroc GAR 30
Extra transformer 8 kVA	•	•	•	•	Double GAR 30 compressor +air receiver
Extra transformer 15 kVA	0	0	0	0	On-board booster compressor, 25 bar/380 l/s
Transformer for charging 100 kW				•	External air supply connection for hole blowing
PC4 or PC5 plug/socket	0	0	0	0	HECL lubrication system with electric filling pump
Phase sequence and eart fault indicator	•	•	•	•	
Battery charger	•	•	•	•	Water system
Dual controls for cable reel	•	•	•	•	Minimum water inlet pressure 2 bar
					Pinimiani water inter pressure 2 Dai

Working lights 4x150 LED, 24 V DC	•	•	•	•	Not applicable when booster compressor is installed on
Illuminated stairs for platform LED	•	•	•	•	

Hydraulic water booster pump. Capacity at 15 bar 250 l/min

Not applicable when booster compressor is installed on ITH drill rigs

Water injection pump. Capacity 50 L/min

Water hose reel including hose'

Stainless steel electrical enclosure

Tramming lights 8x22 LED, 2x70 W, 24 V DC

Limit switch for cable reel with signal lamp and brake con-

0000

^{*} Depending on selected rock drill

Only with COP 4050, or double GAR 30 compressors or when DCT installed.

● = Standard ○ = Option

A = Simba ME7 B = Simba E7 C = Simba E7 ITH D = Simba with battery driveline

Carrier	Α	В	С	D
Deutz TCD 2013 L04 1 V Stage III A Tier 3 (120 kW)	0	0	0	
Deutz TCD 4.1 LO4 Stage III B Tier 4 i (115 kW)	0	0	0	
Deutz TCD 2012 L06 1 V Stage III A Tier 3 (155 kW)	0	0	0	
Deutz TCD 6.1 L06 Stage III B Tier 4 i (180 kW)**	0	0	0	
Traction motor 150 kW				•
Front axel DANA Spicer 123/90	0	0	0	0
Rear axel DANA Spicer 114/90 +-8 degree oscillation	0	0	0	0
Articulated steering ±38° steering angle		•	•	•
Articulated steering ±41° steering angle	•			
Four-wheel drive	•	•	•	•
Hose/cable guiding at water/cable reel	0	0	0	0
Automatic differential lock on front axle, limited slip	•	•	•	•
Tires 14.00xR24		•	•	•
Tires 12xR24	•			
Rig alignment laser	•	•	•	•
Front and rear hydraulic jacks	•	•	•	•
Fuel tank, volume 110 l	•	•	•	
Central grease point	•	•	•	•
Fire suppression system ANSUL (manual or automatic)	0	0	0	0
Fire suppression system FORREX (manual or automatic)	0	0	0	0
Hot climate tramming kit	0	0	0	0
E-tramming (electrical/hydraulic tramming)	0	0	0	0
Rig washing kit*	0	0	0	0
Manual lubrication kit	0	0	0	0
Boot washing kit*	0	0	0	0

^{&#}x27;Not applicable when equipped with dry drilling system ''Maximum ambient temperature 25°

Cabin (optional)	Α	В	С	D
ROPS and FOPS certified cabin, noise level <80 dB(A)	•	•	•	•
Mounting height -140 mm from standard height	0	0	0	0
Cabin lift/tilt system, 375 mm/15°	0	0	0	0
Swingable seat for drilling and tramming	0	0	0	0
Front window 22 mm (P8 B safety classified)	0	0	0	0
Reversing camera with monitor	0	0	0	0
12 V outlet	•	•	•	•
Joystick-controlled spotlights left and/or right, 70 W	0	0	0	0
FOPS-approved grizzly bar for front window	0	0	0	0
Low-designed cabin for seated operator, cabin height 2 735 mm	0			0
Low-designed cabin for seated operator, cabin height 2 823 mm		0	0	0
Mediaplayer	0	0	0	0
Air condition	•	•	•	•
Heating function for air conditioning (water transferred)	0	0	0	0
Electrical heater, 1.2 kW, 230 V (CE)	0	0	0	0
Electrical heater, 10 kW, 700 V DC (CE)				0
Cabin body made of stainless steel	0	0	0	0

Protective roof	Α	В	С	D
Swingable seat for drilling and tramming	0	0	0	0
Stainless steel	0	0	0	0
FOPS certified	•	•	•	•
Joystick-controlled spotlights left and/or right, 70 W	0	0	0	0

Drifter rods/pipes

Rock drill	Rod/pipe	Guide tubes	Hole diameter (mm)
COP 1838+	R32 Speedrod	TDS 45	51-64
COP 1838+MUX	T38 Speedrod	TDS 54/TDS 64	64-76
	T45 Speedrod	TDS 64/TDS 76	76-89
COP1838+HUX	TDS 45	N/A	48-76
COP 1030*HUX	TDS 54	N/A	64-89
	TDS 64	N/A	70-89
	T51	TDS 76	89-115
COP 2550UX	TDS 64	N/A	76-115
COP 25500X	TDS 76	N/A	89-102
	TDS 76	N/A	89-115 (ST58 shank adapter)
COP 3060	TDS 76	N/A	89-102
	TDS 87	N/A	102-115
COP 35	TAC 76/89	N/A	88-105
COP 44	TAC 76/89	N/A	110-125
COP 54	TAC 89 (TDS102)	N/A	134-152
COP 64	TAC 89 (TDS102)	N/A	156-178

Recommended cable size and length

Voltage	Туре	Dimension (mm²)	Diameter (mm)	Length (m)	Length ITH (m)
380-400 V	Buflex	3x185+3G35	56	80	65
440-500 V	Buflex	3x150+3G25	52	120	70
550 V	Buflex	3x120+3G25	46	120	95
660-690 V	Buflex	3x95+3G16	45	150	125
1000 V	Buflex	3x50+3G10	33	200	200

Recommendations are given for surrounding temperature of 40°C and up to a height of 2 000 m. Cable dimension for battery version depends on charging cycle.

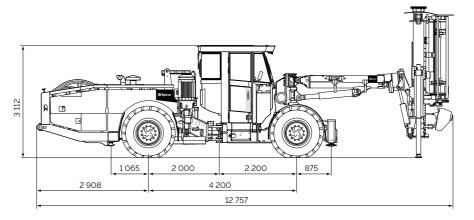
Noise and vibration

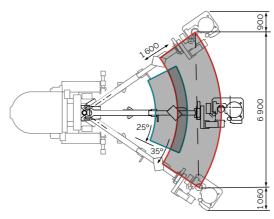
Operator sound pressure level in canopy, drilling, free field (ISO 11201)	106±6 dB(A) re 20 uPa
Operator sound pressure level in cabin, drilling, free field (ISO 11201)	75± 3 dB(A) re 20 uPa
Operator sound pressure level working close to machine, drilling, free field	106±6 dB(A) re 20 uPa
Sound power level (ISO 3744), drilling, free field	126 dB(A) re 1 pW
Peak C-weighted instantaneous sound pressure level (EN16228)	Less than 130 dB
Vibration levels seated, drilling (ISO 2631-1) cabin	0.07±0.07 m/s^2
Vibration levels standing, drilling (ISO 2631-1) cabin	0.07±0.07 m/s^2
Vibration levels seated, drilling (ISO 2631-1) canopy	0.1±0.15 m/s^2
Vibration levels seated, drilling (ISO 2631-1) canopy	0.1±0.15 m/s^2

Recommended drift size

Feed	Rod	Minimum HxW
BMH 214/234	1220	3 600x3 600
BMH 215/235	1525	3 900x3 900
BMH 216/236	1830	4 200x4 200

Technical specifications

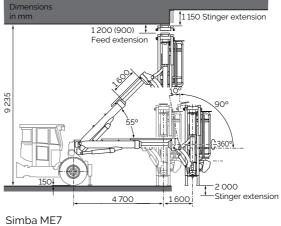




1200 (900)

Simba ME7

Simba E7/Simba E7 ITH



Simba E7/Simba E7 ITH

Dimensions

Measurement	Simba ME7	Simba E7	Simba E7 ITH	Simba with battery driveline
Width	2 550 mm	2 550 mm	2 550 mm	2 550 mm
Length, tramming	12 700 mm	13 200 mm	13 700 mm	13 200 mm
Height with cabin	3 050 mm	3 100 mm	3 100 mm	3 100 mm
Height roof up/down	2 300/3 000 mm	2 350/3 050 mm	2 350/3 050 mm	2 350/3 050 mm
Ground clearence	265 mm	330 mm	330 mm	330 mm
Turning radius outer/inner	6 800/4 000 mm	7 200/4 300 mm	7 500/4 300 mm	7 200/4 300 mm

Gross weight (depending on configuration)

	-	•	•	•	
Rig type			Total	Boom side	Engine side
Simba ME7			29 500 kg	20 000 kg	9 500 kg
Simba E7			31 500 kg	20 000 kg	11 500 kg
Simba E7-ITH			30 000 kg	19 000 kg	11 000 kg
Simba E7 Batte	ery		31 500 kg	20 000 kg	11 500 kg

Tramming speed

On flat ground (rolling resistance 0.05)*	>15 km/h
On incline 1:8	>5 km/h

^{*} Electric driveline >12 km/h



United in performance. Inspired by innovation.

Performance unites us, innovation inspires us, and commitment drives us to keep moving forward.

Count on Epiroc to deliver the solutions you need to succeed today and the technology to lead tomorrow.

epiroc.com

