

Simba E6-W(WL)

Hydraulic long hole production drill rigs for medium to large size mining. Hole range from 89 up to 254 mm.



Simba E6-W(WL)

Simba E6 is sturdy, stable long hole production drilling rigs for large size drifts, using 89 up to 254 mm drill bits depending on a variation of rock drills. The simba E6 gives the operator excellent visibility from the operator safe cabin environment. Simba drill rigs offer a sustainable high precision solution for long hole drilling. The water powered drilling solution in conjunction with the well proven control system gives outstanding performance.

+ Main benefits

Sturdy precision: Drill unit mounted on I-frame with pendulum arm gives an stable, sturdy and accurate set up for drilling. These drill rigs also offer the operator to handle a large variation of drilling tools.

Water powered ITH hammer: The water powered hammer gives the Simba E6 range an edge in straight hole drilling with hole accuracy beyond what is expected. This production drill rig can on top of this be tailor made to suit the customers requirements in terms of performance, hole quality and drill pipe economy.

Precision and productivity: The Simba E6 features our acclaimed rig control system (RCS) and can be equipped with smart automated single-hole or multi-hole drilling functions. With tele-remote control, the Simba E6 can be operated from one or more remote locations.

Reverse camera to enhance good visibility for the operator when transporting the drill rig



Four mounted stingers for a rock solid set up for drilling

Hammer changer as an option gives the drill rig, maximum performance and can be drilling un-attended for a long time without expose operator for dangerous zones, changing drill bit in the hammer

ROPS and FOPS approved cabin for a safe and comfortable operator environment

Fast rock drilling with Simba E6-W(WL)

Simba E6 models are built for fast on-site positioning and accurate hole placement. Intelligent functions on these highperformance rigs boost efficiency and productivity while making the operator's job safer and easier.



+ Safety

The Simba E6 is designed with safety in mind. The rig operator sits in a ROPS and FOPS-approved cabin that offers excellent visibility and comfort. Barrier sensors protect the operator and other workers from rotating parts during automatic drilling.



+ Automation

Boost your productivity by equipping your Simba E6 with smart automated functions such as ABC Regular or ABC Total. Your Simba E6 can then effectively continue to drill unattended throughout personnel breaks and shift changes. With the tele-remote control function, the rig operator can safely and comfortably operate the rig from a distance.



+ Epiroc Rig Control System

We introduced the first version of our computerized drill rig control system in 1998 to take the market by storm. Throughout the years, the Rig Control System (RCS) has been further advanced and refined to include increasingly sophisticated functions informed by practical work experience and an on-going dialogue with clients. More than 3 000 RCS-equipped rigs are currently in operation the world over. At Epiroc, we continue to drive development in the drilling and mining 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 you are.

Technical specifications

● - Standard ○ - Option

Drilling unit

| | |
|---|---|
| Rod Handling System, RHS 35: 35*1 pipes | ● |
| Adaptable to 5' and 6' pipes | ● |
| Pipe diameter: 102 mm | ● |
| Mechanized drilling up to 63 m | ● |
| Drill steel support and break-out table | ● |

Rotation unit

| | |
|-----------------------------------|---|
| Length with fixed adapter: 534 mm | ● |
| Torque, max: 3 900-5 100 Nm | ● |
| Rotation speed: 60-90 rpm | ● |
| Weight: 164 kg | ● |

Feed

| | |
|--|---|
| BMH 200-Series: BMH 235, total length, 3 300 mm | ● |
| BMH 200-Series: BMH 236, total length, 3 600 mm | ● |
| BMH 200-Series: BMH 235, drill pipe length, 1 800 mm | ● |
| BMH 200-Series: BMH 236, drill pipe length, 1 800 mm | ● |

Water system

| | |
|--|---|
| Water booster pump on board | ● |
| Capacity: max 350 l/min | ● |
| Filter unit: 50 µm | ● |
| Automatic filter surveillance and cleaning | ● |
| Air separator/Pulsation damper | ● |
| Recycling system | ● |
| Water pressure gauge | ● |
| Water hose reel: 3'/120 m | ● |
| Minimum water inlet pressure: 2 bar | ● |

Positioning system

| | |
|---|---|
| Feed extension: 1 200 mm | ● |
| Rotary acurator BHR 60-2 for 360° ring drilling | ● |
| Pendulum arm: ±1.5 m | ● |
| Stinger backward on feed: 2 x BSJ 8-200 | ● |
| Stinger forward on feed: 2 x BSJ 8-115 | ● |
| Feed dump, drilling: +45° forward and -30° backward | ● |
| Automatic lubrication for positioning system | ○ |
| Central lubrication for positioning system | ○ |
| Short pendulum arm | ○ |

Control system

| | |
|---|---|
| Rig Control System (RCS) – versatile and upgradeable to a higher degree of automation | ● |
| USB-memory for transfer of data and storage of drill parameters | ● |
| Integrated diagnostic and statistic system | ● |
| Angle reading instrument | ● |
| Drill settings for up to five different drill bits and/or various rock conditions | ● |
| Exposed components are designed and tested acc. to IP 65 | ● |

Miscellaneous

| | |
|---|---|
| Electric lubrication kit | ○ |
| Remote operating kit, Line of Sight (LOS) | ○ |
| Additional panel | ○ |
| Pipe handling crane | ○ |
| Cuttings deflector for upwards drilling | ○ |

Electrical system

| | |
|--|---|
| Total installed power: 193 kW | ● |
| Main motors | ● |
| Hydraulic pumps: 55 kW | ● |
| Water pump, 400 V DC: 130 kW | ● |
| Voltage: 400-1000 V | ● |
| Frequency: 50/60 Hz | ● |
| Starting method: star/delta (400-690 V/55 kW) | ● |
| Electronic overload protection for electric motors | ● |
| Digital volt/amperage meter in electric cabinet | ● |
| Phase sequence indicator | ● |
| Earth fault indicator | ● |
| Battery charger | ● |
| Transformer: 8 kVA | ● |
| Halogen working lights, mounted on roof: 2 x 1 000 W | ● |
| Cable reel with limit switch | ● |
| Electrical cable on reel, Buflex | ○ |
| Plug PC5 | ○ |
| Socket PC5 | ○ |
| Switch gear | ○ |
| Electrical outlet, 16 A | ○ |
| Extra transformer, 15 kVA | ○ |
| Extra transformer, 10 kVA | ○ |
| Metal halogen working lights, 2 x 400 W | ○ |
| Extra working lights, 2 x 200 W, 24 V (on tripod) | ○ |
| Extra working lights, 2 x 500 W, 230 V (on tripod) | ○ |
| Electrics according to local standards | ○ |

Power pack

| | |
|--|---|
| Hydraulic pumps for rotation, positioning and feed | ● |
| Pumps unloaded at start | ● |
| System pressure, max: 250 bar | ● |
| Hydraulic oil tank, volume max/min: 250/200 l | ● |
| Low oil level indicator and shut-down | ● |
| Oil temperature gauge on oil tank, electronically supervised | ● |
| Smart oil leakage shut-down system | ● |
| Filtration, absolute: 16 µm | ● |
| Oil filter indicator | ● |
| Water cooled oil cooler in stainless steel | ● |
| Mineral hydraulic oil | ● |

Automation

| | |
|---|---|
| Simba ABC Regular | ○ |
| Simba ABC Total | ○ |
| Drill Plan Handling | ○ |
| Full Drill Data Handling | ○ |
| Rig Remote Access | ○ |
| Breakthrough Automatic Stop | ○ |
| Text Message System | ○ |
| Remote Cradle Control/Remote Feed Control | ○ |
| Mine Navigation | ○ |
| Void Detection | ○ |

Cabin

| | |
|--|---|
| FOPS-approved cabin: Fixed seat, CD-changer, air conditioning unit without heating | ○ |
| Stainless steel cabin | ○ |
| Air conditioner with heating | ○ |
| Front window, 24 mm | ○ |
| FOPS-approved grizzly bar for front window | ○ |
| Cabin lift/tilt system, 375 mm/15° | ○ |
| Reversing camera with monitor | ○ |
| Joystick controlled spotlight | ○ |

Carrier

| | |
|--|---|
| Deutz TCD 2012 L06 2V Stage IIIA, Tier 3 (155 kW) | ○ |
| Deutz TCD 6.1 L06 Stage IIIB, Tier 4i (180 kW) | ○ |
| Power rating at 2 300 rpm: 175 kW (238 hp) | ● |
| Torque at 1 400 rpm: 572 Nm | ● |
| Swingable seat for tramping, incl. safety belt | ● |
| Articulated steering: ±41° steering angle | ● |
| Four-wheel drive | ● |
| FOPS-approved protective roof | ● |
| Hydrostatic power steering system | ● |
| Hydrodynamic transmission: Clark 24000 | ● |
| Front axle: DANA Spicer 123/90 | ● |
| Rear axle: DANA Spicer 123/90, ±8° oscillation | ● |
| Automatic differential lock on front axle, limited slip | ● |
| Tyres: Michelin 12.00 R24 XZM | ● |
| 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: 100 l | ● |
| Electric system: 24 V | ● |
| Batteries: 2 x 125 Ah | ● |
| Tramming lights: 8 x 70 W | ● |
| Illuminated stairs for platform | ● |
| Central lubrication system | ● |
| Silencer | ● |
| Catalyser | ● |
| Fire extinguisher | ● |
| Spirit levels one for longitudinal and one for sideways | ● |
| Gradeability at max load on drive wheels: 1:4 | ● |
| Tramming speed on flat ground: >15 km/h | ● |
| Tramming speed on incline 1:8: >5 km/h | ● |
| Horn | ● |
| Beacon warning lamp | ● |
| Reverse alarm | ● |
| Rack for spare hammers and pipes | ● |
| Shelf for tools and bits | ● |
| Manual rig washing kit | ● |
| Rig alignment laser | ● |
| Fire suppression system, manual | ● |
| Fire suppression system, automatic (check-fire) | ○ |
| Fire suppression system, full automatic | ○ |
| Particle filter UNIKAT | ○ |
| Brake lights | ○ |

Drill steel

| Rock drill | Hole diameter | Drill pipe diameter | Drill pipe length |
|-----------------------------|---------------|---------------------|-------------------|
| Hammer W100 | 115 mm | 102 mm | 1 500/1 800 mm |
| Hammer W120 (slot drilling) | 165 mm | 102 mm | 1 500/1 800 mm |

Recommended cable size and length

| Voltage | Type | Dimension | Diameter | Length |
|-----------|--------|-------------------------------|----------|--------|
| 400 V | Buflex | 3x240 + 3x350 mm ² | 68 mm | 60 m |
| 400-460 V | Buflex | 3x240 + 3x350 mm ² | 68 mm | 60 m |
| 500-550 V | Buflex | 3x185 + 3x35 mm ² | 56 mm | 90 m |
| 660-690 V | Buflex | 3x120 + 3x25 mm ² | 46 mm | 135 m |
| 1 000 V | Buflex | 3x95 + 3x16 mm ² | 45 mm | 150 m |

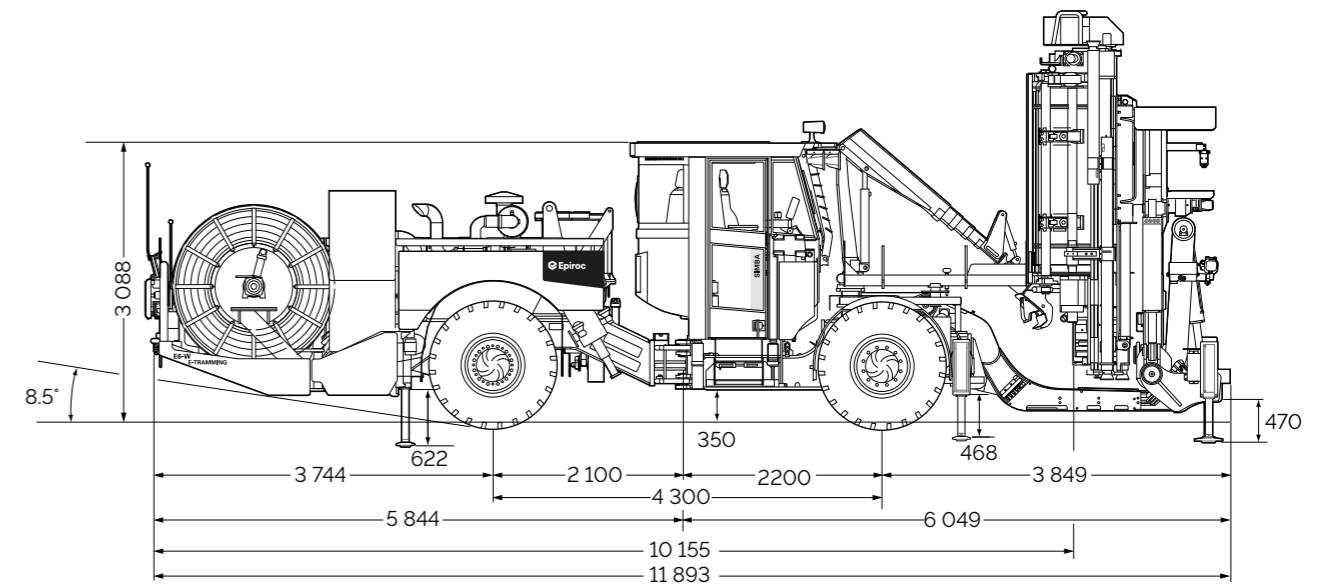


Illustration shows Simba E6-W

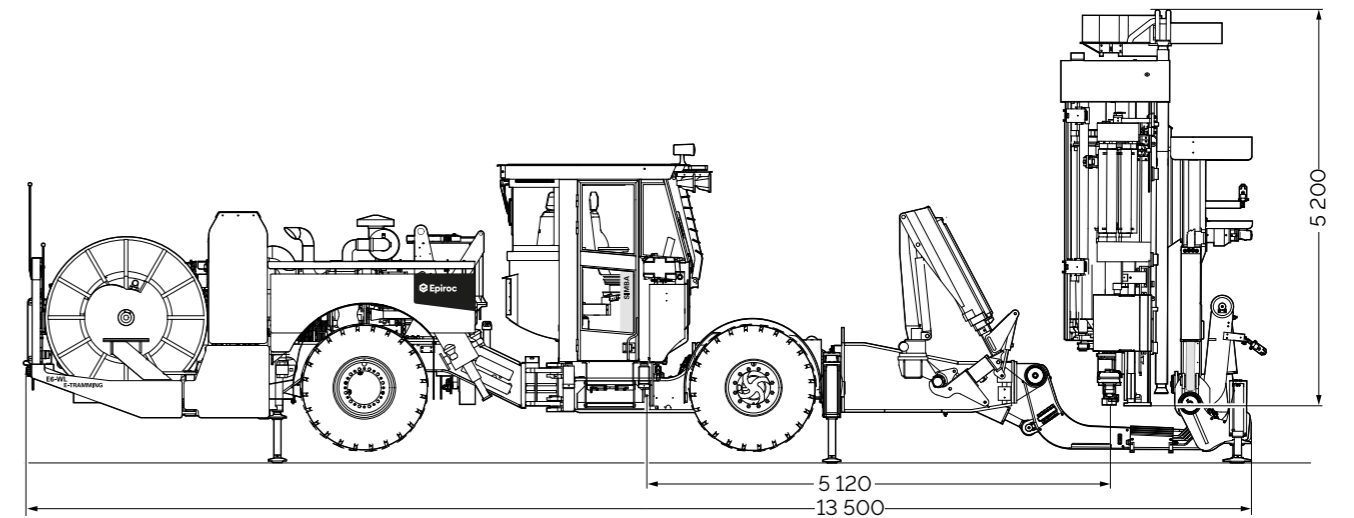


Illustration shows Simba E6-WL

Dimensions

| Measurement | Simba E6-W | E6-WL |
|------------------|------------|-----------|
| Width | 2 600 mm | 2 600 mm |
| Length, tramming | 12 100 mm | 12 700 mm |
| Height, tramming | 3 500 mm | 3 200 mm |
| Ground clearance | 300 mm | 300 mm |

Turning radius

| Depending on surface | Simba E6-W | E6-WL |
|----------------------|------------|----------|
| Outer | 7 985 mm | 8 425 mm |
| Inner | 4 330 mm | 4 850 mm |

Weight

| Gross weight | Simba E6-W | E6-WL |
|--------------|------------|-----------|
| Total | 28 500 kg | 30 200 kg |
| Boom side | 17 000 kg | 17 400 kg |
| Engine side | 11 500 kg | 12 800 kg |



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