Simba E7 C-ITH: Long-hole drilling rig

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Simba E7 C-ITH is a long-hole drilling rig for medium- to large-sized drifts in the 95 to 178 mm hole range. The rig is capable of ring drilling parallel holes upward and downward with up to 5.9 m spacing. Equipped with a high-performance pneumatic in-the-hole hammer, the Simba E7 C-ITH offers a sustainable high-precision solution for long-hole drilling.

Features & benefits

- Boom-mounted drilling unit for maximum reach and flexibility
- Rod carousel for 27+1 rods for mechanized drilling up to 51 m
- Rig Control System (RCS) for high precision, productivity and ergonomic relief for the operator

Technical description

Simba E7 C-ITH (1391kB, Pdf document) - Download

Technical data

Units: Metric Imperial

Air system	
Minimum air inlet pressure	2 bar
Air pressure gauge	Yes
Drilling unit	
Adaptable to drill rods/pipes	TDS 76, TDS 87
Adaptable to rods/pipes	5', 6'
Mechanized drilling	up to 51 m
Carrier	
Engine	Deutz TCD 4-cylinder 2013 L04 2 V (Stage III A/EPA Tier 3)
Power rating	120 kW at 572 rpm
Transmission	Clark 32000
Axle, front	Dana 114
Axle, rear	Dana 114, ± 8° oscillation
Tires	14.00xR24
Clearance outside axles	16° rear, 23° front
Differential lock on front axle	Automatic

Hydrostatic power steering system	Yes
All-wheel drive	Yes
Hydraulic jacks, front	2 extendable
Hydraulic jacks, rear	2
Service brakes	2 separate circuits
Emergency and parking brakes	SAHR
Fuel tank, volume	110 l
Electrical system	24 Volt
Batteries	2x125 Ah
Tramming lights	LED
Gradeability at max. load on drive wheels	1:4
Horn	Yes
Beacon warning lamp	Yes
Reverse alarm	Yes
Brake lights	Yes
Protective roof, FOPS-approved	Yes
Swingable operators seat with safety belt	Yes
Illuminated stairs for platform	LED
Central lubrication system	Yes
Rig alignment laser RAL 650	Yes
Fire extinguisher	Yes
Spirit level	One for longitudinal and one for sideways
Shelf for drill bits and tools	Yes
Exhaust catalyser	Yes
Silencer	Yes
Control system	
Control system	Rig Control System, RCS
Exposed components are designed and tested according to IP 65	Yes
Transfer of data and back-up settings	USB
Drill settings for up to 5 different drill bits	Yes
Angle reading instrument	Yes
Dimensions and weight	
Height roof up	3100 mm
Turning radius, inner	4400 mm
Turning radius, outer	7300 mm
Ground clearance	340 mm
Width	2550 mm
Electrical system	
Total installed power	63 kW
Main motors	1x55 kW
Voltage	400-1000 V
Frequency	50-60 Hz
Starting method	Star/delta
Overload protection for electric motors	Electronic
Digital volt/amperage meter in electrical cabinet	Yes
Phase sequence indicator	Yes
Earth fault indicator	Yes
Battery charger	Yes
Transformer	8 kVA
Working lights, mounted on roof	LED
Cable reel	Yes
Positioning system	
Feed extension, max	1200 mm
Rotary Accurator for 360º ring drilling	Yes
Stinger backward on feed	BSJ 8-200

Stinger forward on feed	BSJ 8-115
Rock drill	
Drilling method	In-the-hole hammer
Rotation unit	DHR 6

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