

Ranger DX900i S5 SURFACE DRILLS

TECHNICAL SPECIFICATION

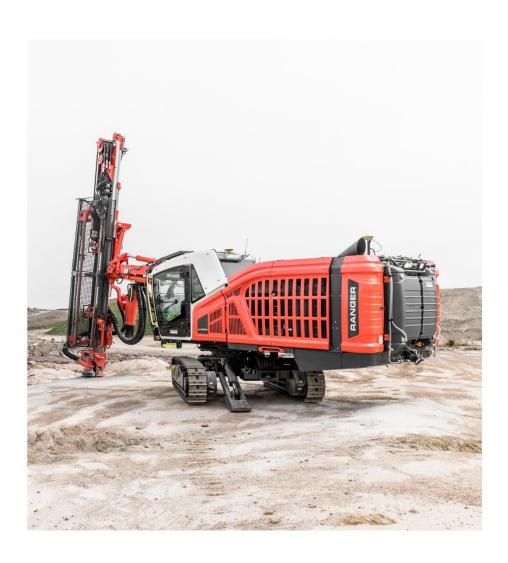
Ranger D900i is a hydraulic, self-propelled, self-contained, crawler based surface drilling rig equipped with a cabin (F.O.P.S. and R.O.P.S.) and rod handling system.

Typical applications for DX900i are road cutting, pipe-line drilling and foundation drilling, as well as production drilling in medium size quarries. Therefore DX900i is most often used by construction contractors, mines and quarries, and also included in the equipment fleet of rental houses as well.

KEY FEATURES

Hole diameter:	89 - 140 mm (3" - 5.5")*
Rock tools:	51 mm or 60mm (2" and 2 3/8")
Rock Drill	27kW
Engine output:	210kW
Flushing air:	9.5 m3/min, up to 10 bar
Production capacity:	1,9 Mt/year
Total weight:	19 600 kg

^{*}if larger than 127mm holes drilled please consult factory



Volvo TAD882VE (EU Stage V)

2 pcs., with ejector and safety

3 pcs. for drilling, tramming, boom and rodhandling, dust

10 micron abs., return 25 micron, pressure up to +50°C ambient

SLU 22-1 CSL (option)

Sandvik SICA, PLC controlled proportional electro- hydraulics PLC controlled

Electro-proportional joysticks

For rotation and flushing

Adjustable for fine tuning for different rock conditions

23 m3/min at 1 000 mm

and touchscreen
Graphical flow chart type

iTorque

Automatic

24 VDC

DC 900H

FL 6 310 mm 2 750 mm 1.0 kg/cm2 400 mm

+/- 10° 156 KN 3.2 km/h

CCW180°+CW110°

vacuum H2O 15 pcs/fiber 12 m2 Standard Standard

AdBlue, 45 I

Gear box Enduro 25

element 400 l

collector

300 I

210kW / 1800 rpm

2 pcs. for cooling

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HYDRAULIC ROCK DRILL		POWERPACK
Rock drill	RD927L, RD927L-C	Engine type
Rock tools	45, 51, 60 mm	DEF tank
Operating pressure	100-200 bar	Number of cylinders
Percussion rate	56	Engine output
Percussion output power	27kW	Transmission type
Maximum rotation torque	1 750 Nm	Screw compressor type
Shank lubrication	Air / oil mist	Air filters
Flushing	Air	Fuel tank
Weight	345 kg	
FEED		HYDRAULIC SYSTEM
Feed type	CylF 16 feed, CylF 18 (option)	Number of gear pumps
Total length	7 500 mm, 8 410mm (option)	Number of piston pumps
Rock drill travel	4 680 mm, 5 290mm	-
Max. length of starter rod	4 875 mm (16'), 5 486 mm (18')	Filtration rate
	(option)	Cooling capacity
Hole depth with starter rod	4 480 mm, 5 090 mm (option)	Hydraulic oil tank
Hole depth with second rod	8138 mm	Shank lubrication device
Hose reel	Standard	
Feed extension travel	1 300 mm	
Feed/pull out force	28 kN	CONTROL SYSTEM Control system type
Feed swing	-45°/+45° (-20°/+94°)	Control system type
Feed tilt	140°	Tramming/boom/ drilling
Minimum height for horizontal holes	410 mm	control User interface
noies	<u> </u>	
DOD CHANGED		Control system diagnostics
ROD CHANGER Rod changer type	RC1712	Drilling control system type
Storage capacity	7+1 rods (51 mm), 4+1 (60mm)	Antijamming system
Rod length	3660, 4267 (12',14'*)*(Long feed	Collaring control
	option)	Preset drilling parameters
Max. hole depth	30 m, 33 m*	Voltage
	(7x12'+1x16'),(7x14'+1x18')*(Long feed option)	·
		DUST COLLECTOR
BOOM		Dust collector type
Boom type	DB5200, articulated	Capacity/vacuum
Boom reach	5,2 m	
Drilling coverage	55m² 290°	Filter elements/material
Collaring height	+2.6 m/-4.5 m	Total filter surface
Horizontal holes	To the right	Primary cyclone
		Movable suction head
CABIN		CARRIER
Cabin type	iCab	Track type
Certificates	F.O.P.S. and R.O.P.S.	Grouser plate width
Noise level in the cabin	below 75 dB(A)	Ground contact length
Air conditioning	Intelligent air condition safety + *	Ground pressure
Pressurization	Standard	Ground clearance
Seat	Multiposition	Turnable superstructure
Vibration dampening	Standard	Oscillation angles
Windows	Safety laminated, tinted, with	Tramming force
	•	<u>_</u>
Power take-off	wipers 12 VDC	Max. tramming speed

^{*} Air condition system contains fluorinated greenhouse gases HFC-134a

2. TECHNICAL SPECIFICATION - Ranger DX900i S5 - 1 - 2019-12-27

STANDARD COMPONENTS

1 pc	Rock drill RD927L, hydraulic with SLU system
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1 pc CylF 16 feed HR, With hose reel

1 pc Rod handler RC1712 incl. 1 set of jaws

1 pc BoomDB5200, articulated

1 pc Carrier track mounted, Rotating upper structure

CW180+CCW110 Degrees

1 pc Power pack diesel driven, hydraulic pumps and on-board compressor with twin pressure control

1 pc Control system iTorque, incl Flushing control automatics, Shutdown of suction for waterholes

1 pc TIMi for vertical holes and depth measuring

1 pc Operator's cabin F.O.P.S. and R.O.P.S. with Intelligent air condition safety +

1 pc Radio, 12V with USB MP3 Bluetooth, without CD

1 pc Dust collection system DC 900 H, hydraulic, Primary separator

1 pc Flushing control automatics

1 pc Shut down of suction in water holes

10 pcs Working lights, Halogen

1 pc Gauge set for accumulator pressure checking

1 pc Alarm signal

1 Set Manuals, paper copy

1 Set Manuals, USB memory

1 pc Alarm beacon

1 pc Service light

EU-safety devices, EN16228

THE JAWS FOR DRILL STEELS

DRILL STEEL TYPE	DRILL STEEL DIAMETER	RECOMMENDED HOLE DIAMETER
MF-rods	45 mm 1 ¾"	76 - 89 mm 3" - 3 ½"
MF-rods	51 mm 2"	89 - 127 mm 3 ½" - 5"
MF-rods	60 mm 2 3/8"	92- 140mm 3 5/8" - 5½"

SELECTION OF OPTIONS

	helow cahin

Alternative seat with 3-point seat belt and air cushioning

H13 Cabin filter, HEPA Cooler bag in cabin

Radio CD/MP3 Bluetooth, Handsfree, DAB

Reversing camera

Roller blinds for cabin windows

Vacuum cleaner for cabin

Explosion proof cabin window

Heated mirrors

Driller's Notes - MWD Data Collection for TIM3D

Automatic feed alignment for TIMi

GPS aiming device for TIM and TIMi inclined holes

TIM3D hole navigation system

TIMi for inclined holes and hole depth measuring

TIMi for inclined holes with TIM3D readiness

TIMi laser level based depth measuring

TIMi with open interface (Option laser level included)

RockPulse sensor system

Horizontal drilling kit with extra brake, (not with long feed)

Long safety cage, replaces standard component

Kit for alternative steels, each

Thread greasing

Full cycle one hole automatic drilling

Power extractor

Readyness for Power Extractor

CSL-system for R92x series rock drill, replaces standard component

Biogradeable hydraulic oil, not with CSL

Central lubrication system Sandvik

Electric fuel filling pump

Electric hydraulic oil filling pump

Electric water filling pump

Fast fill connection for engine coolant, hydraulic and engine oils

Fast fill connection for fuel Wiggins

Fire suppression system Sandvik, Eclipse 65L

Guides for grousers, long

Rear bumper

Long feed for 14' rods, CylF 18 HR, not with horizontal drilling

Hydraulic rear ground support

Hydraulic winch with full radio drilling, tramming boom and rod

Remote screen interface (Tablet or mobile phone not included) Three bar grouser plates

Towing hook

Extra brake for turnable upper structure (included in horizontal drilling)

Led lights, 9 pcs

Led lights 17 pcs. also carrier rear and side option lights

Cold weather package - 25 degrees

Cold-weather package -25degree, incl watertank heater Readyness for fuel powered heater

Dustmizer requires flap feeder (engine heater option needed below freezing point)

Flap feeder for dust collector

Sampling device

Water injection system

CME Grinder readyness

Spare radio remote transmitter

Extra manuals, price will be added according to pricing sheet

First service kit for Ranger DXi series

Special tools for RD92x series, field

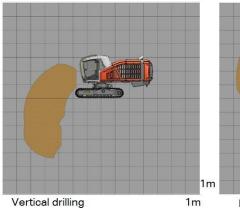
Special tools for RD92x series, complete

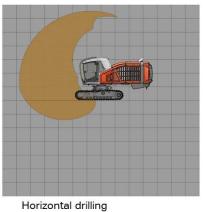
Service agreement - select level from extra item

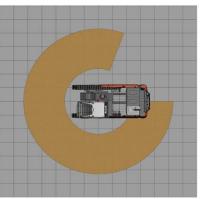
SanRemo - select level from extra item



COVERAGE AREA AND DIMENSIONS







Drilling coverage





DIMENSIONS

Weight	19 600 kg
Width	2.45 m
Height	3.3 m/4.4 m
With safety cage	3.3 m/4.4 m
With noise silencer	3.7 m/5 m
Total length	12,35m, 13,26m with CylF 18 (option)

Sandvik Mining and Rock Technology reserves the right to make changes to the information on this data sheet without prior notification to users. Please contact a Sandvik representative for clarification on specifications and options.

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