

Ranger DX900i T3 SURFACE DRILLS

TECHNICAL SPECIFICATION

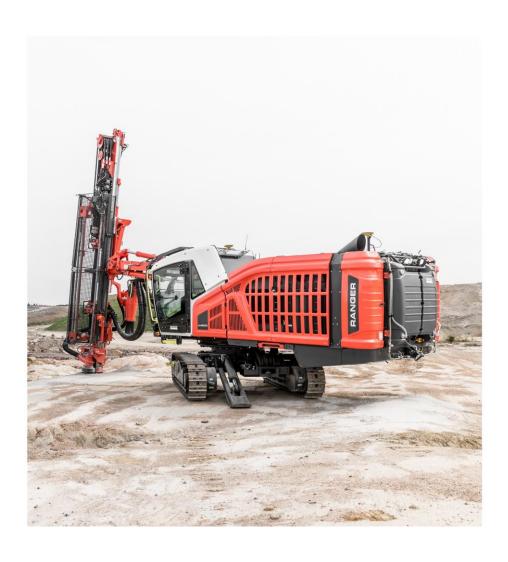
Ranger D900i is a hydraulic, self-propelled, self-contained, crawler based surface drilling rig equipped with a cabin (F.O.P.S. and R.O.P.S.) and rod handling system.

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



HYDRAULIC ROCK DRILL		POWERPACK	
Rock drill	RD927L, RD927L-C	Engine type	Volvo TAD852VE
Rock tools	45, 51, 60 mm	Number of cylinders	6
Operating pressure	100-200 bar	Engine output	210kW / 1 800 rpm
Percussion rate	56	Transmission type	Gear box
Percussion output power	27kW	Screw compressor type	Enduro 25
Maximum rotation torque	1 750 Nm	Air filters	2 pcs., with ejector and safety
Shank lubrication	Air / oil mist	Fuel tank	element 400 l
Flushing	Air	- Contains	
Weight	345 kg		
		HYDRAULIC SYSTEM	
FEED		Number of gear pumps	2 pcs. for cooling
Feed type	CylF 16 feed HR	Number of piston pumps	3 pcs. for drilling, tramming, boom and rodhandling, dust
Total length	7 500 mm		collector
Rock drill travel	4680 mm	Filtration rate	10 micron abs., return 25 micron, pressure
Max. length of starter rod	4 875 mm (16')	Cooling capacity	up to +50°C ambient
Hole depth with starter rod	4480 mm	Hydraulic oil tank	2001
Hole depth with second rod	8138 mm	Shank lubrication device	SLU 14-1 CSL (option)
Hose reel	Standard		
Feed extension travel	1300 mm		
Feed/pull out force	28 kN	CONTROL SYSTEM Control system type	Sandvik SICA, PLC controlled
Feed swing	-45°/+45° (-20°/+94°)		proportional electro- hydraulic
Feed tilt	140°	Tramming/boom/ drilling control	PLC controlled
Minimum height for horizontal holes	410 mm	User interface	Electro-proportional joysticks and touchscreen
		Control system diagnostics	Graphical flow chart type
ROD CHANGER		Drilling control system type	iTorque
Rod changer type	RC1712	Antijamming system	For rotation and flushing
Storage capacity	7+1 rods (51 mm), 4+1 (60mm)	Collaring control	Automatic
Rod length	3050, 3660 (10', 12')	Preset drilling parameters	Adjustable for fine tuning for
Max. hole depth	30 m (7x12'+1x16')	Voltage	different rock conditions 24 VDC
BOOM		DUST COLLECTOR	
Boom type	DB5200, articulated	Dust collector type	DC 900H
Boom reach	5,2 m	Capacity/vacuum	23 m3/min at 1 000 mm
Drilling coverage	55m² 290°	Filter elements/material	vacuum H2O 15 pcs/fiber
Collaring height	+2.6 m/-4.5 m	Total filter surface	12 m2
Horizontal holes	To the right	Primary cyclone	Standard
		Movable suction head	Standard
CABIN			
Cabin type	iCab	CARRIER	
Certificates	F.O.P.S. and R.O.P.S.	CARRIER Track type	FL 6
Noise level in the cabin	below 78 dB(A)	Grouser plate width	310 mm
Air conditioning	Intelligent air condition safety	Ground contact length	2 750 mm
Procourization	+ * Standard	Ground pressure	1.0 kg/cm2
Pressurization	Standard	Ground clearance	400 mm
Seat	Multiposition	Turnable superstructure	CCW180°+CW110°
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Vibration dampening	Standard	Oscillation angles	+/- 10°
Windows	Safety laminated, tinted, with wipers	Oscillation angles Tramming force	+/- 10° 156 KN

POWERPACK

HYDRAULIC ROCK DRILL

HFC-134a

STANDARD COMPONENTS

1 pc Rock drill RD927L, hydraulic with SLU systen

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 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

 $1\ \mathrm{pc}\ \mathrm{Dust}$ 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, CD rom

1 pc Alarm beacon

1 pc Service light

THE JAWS FOR DRILL STEELS

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

SELECTION OF OPTIONS
Alternative seat with 3-point seat belt and air cushioning
H13 Cabin filter, HEPA
Cooler bag in cabin
Radio, 12V,CD,USB, Bluetooth and siriusXM interface
Radio CD/MP3 Bluetooth, Handsfree, DAB
Reversing camera
Roller blinds for cabin windows
Vacuum cleaner for cabin
Explosive proof cabin window
Heated mirrors
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 laser level based depth measuring
Horizontal drilling kit
Kit for alternative steels, each
Thread greasing
Safety cage for feed
One hole automatic drilling down to preset depth
Power extractor
Readyness for Power Extractor
CSL-system for R92x series rock drill, replaces standard
component
Biogradeable hydraulic oil
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 and water tanks (not with option
5110)
Guides for grousers
Hydraulic rear ground support
Hydraulic winch with full radio drilling, tramming boom and rod
handling
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 - 25 degrees Cold-weather package - 25 degree, incl watertank heater
Fuel powered heater for engine, cabin and water tank
Readyness for fuel powered heater
Dustmizer requires flap feeder (engine heater option needed
below from the product of the first transfer option medical

below freezing point)

Flap feeder for dust collector

Sampling device

Water injection system Grinder Sandvik RG420H

Extra manuals, price will be added according to pricing sheet

First service kit for Ranger DXi series

Special tools for RD92x series, field

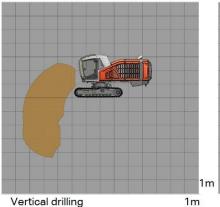
Special tools for RD92x series, complete

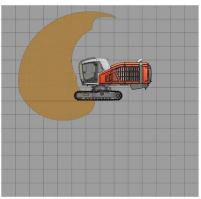
Service agreement - select level from extra item

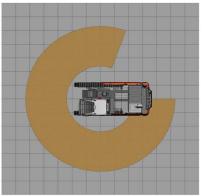
SanRemo - select level from extra item



COVERAGE AREA AND DIMENSIONS







Horizontal drilling 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
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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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