

Ranger DX900i S5 SURFACE DRILLS

TECHNICAL SPECIFICATION

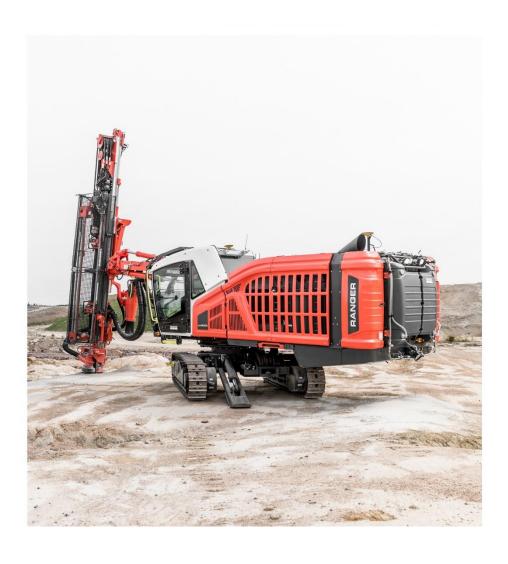
Ranger DX900i is a hydraulic, self-propelled, self-contained, crawler based surface drilling rig equipped with a cabin (F.O.P.S. and R.O.P.S.) and rod handling system.

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 TAD882VE (EU Stage V)
Rock tools	45, 51, 60 mm	DEF tank	AdBlue, 45 l
Operating pressure	100-200 bar	Number of cylinders	6
Percussion rate	56	Engine output	210kW / 1 800 rpm
Percussion output power	27kW	Transmission type	Gear box
Maximum rotation torque	1 750 Nm	Screw compressor type	Enduro 25
Shank lubrication	Air / oil mist	Air filters	2 pcs., with ejector and safety
Flushing	Air	Fuel tank	element 400 l
Weight	345 kg	ruei tarik	4001
		HYDRAULIC SYSTEM	
FEED Feed type	CylF 16 feed, CylF 18 (option)	Number of gear pumps	2 pcs. for cooling
Total length	7 500 mm, 8 410mm (option)	Number of piston pumps	3 pcs. for drilling, tramming, boom and rodhandling, dust
Rock drill travel	4 680 mm, 5 290mm		collector
	4 875 mm (16'), 5 486 mm (18')	Filtration rate	10 micron abs., return 25
Max. length of starter rod	(option)	Cooling capacity	micron, pressure up to +50°C ambient
Hole depth with starter rod	4 480 mm, 5 090 mm (option)	Hydraulic oil tank	3001
Hole depth with second rod	8138 mm	Shank lubrication device	SLU 22-1 CSL (option)
Hose reel	Standard	Sharik lubi ication device	3E0 22-1 C3E (option)
Feed extension travel	1 300 mm		
Feed/pull out force	28 kN	CONTROL SYSTEM	
Feed swing	-45°/+45° (-20°/+94°)	Control system type	Sandvik SICA, PLC controlled proportional electro-hydraulics
Feed tilt	140°	Tramming/boom/ drilling	PLC controlled
Minimum height for horizontal	410 mm	control	
holes		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), 6+1 (60mm, st. feed), 5+1 (60mm long feed)	Collaring control	Automatic
Rod length	3660, 4267 (12',14'*)*(Long	Preset drilling parameters	Adjustable for fine tuning for
Mary hada darab	feed option)	Voltage	different rock conditions 24 VDC
Max. hole depth	30 m,(7x12'+1x16'), 34,3m* (7x14'+1x18') *(option), 25m	Voltage	24 100
	(60mm)	DUST COLLECTOR	
		Dust collector type	DC 900H
BOOM	DD5000 II I I I	Capacity/vacuum	23 m3/min at 1 000 mm
Boom type	DB5200, articulated	Filter elements/material	vacuum H2O
Boom reach	5,2 m		15 pcs/fiber
Drilling coverage	55m² 290°	Total filter surface	12 m2
Collaring height	+2.6 m/-4.5 m	Primary cyclone	Standard
Horizontal holes	To the right	Movable suction head	Standard
CABIN		CARRIER	
Cabin type	iCab	Track type	FL 6
Certificates	F.O.P.S. and R.O.P.S.	Grouser plate width	310 mm
Noise level in the cabin	below 75 dB(A)	Ground contact length	2 750 mm
Air conditioning	Intelligent air condition safety	Ground pressure	1.0 kg/cm2
Pressurization	+ * Standard	Ground clearance	400 mm
Seat	Multiposition	Turnable superstructure	CCW180°+CW110°
Vibration dampening	Standard	Oscillation angles	+/- 10°
· •		Tramming force	156 KN
Windows	Safety laminated, tinted, with wipers	Max. tramming speed	3.2 km/h
Power take-off	12 VDC	-	

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

STANDARD COMPONENTS

1 pc	Rock arill RD92	27L, nyaraulic	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

SanRemo Mobile, Bluetooth connectivity

EU-safety

THE JAWS FOR DRILL STEELS

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

SELECTION OF OPTIONS

Additiona	I tool/hit hox	below cabin

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

Driller's Office planning software (one-year license)

Automatic feed alignment for TIMi

GPS aiming device for TIM and TIMi inclined holes

TIM3D drill navigation system (Trimble)

TIM3D hole navigation system

TIM3D drill navigation system (Leica)

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) Horizontal drilling kit with extra brake, TIM includet (not with long

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 CSI

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, CyIF 18 HR, not with horizontal drilling

Hydraulic rear ground support

Hydraulic winch with full radio drilling, tramming boom and rod

handling

Remote screen interface (Tablet or mobile phone not included) Full radio remote control for drilling, tramming, boom and rod

handling control 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

Grinder, Dynaset

CME mini junior Grinder

Spare radio remote transmitter

Extra manuals, price will be added according to pricing sheet

First service kit for Ranger DXi series

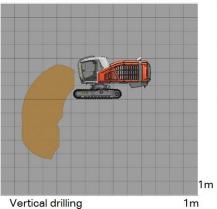
Special tools for RD92x series, field

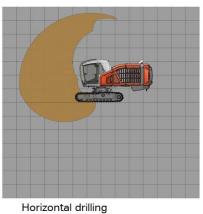
Special tools for RD92x series, complete

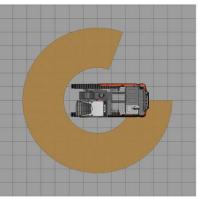
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COVERAGE AREA AND DIMENSIONS







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 Solutions 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.

ROCKTECHNOLOGY.SANDVIK