

Ranger DX800i S5 SURFACE DRILLS

TECHNICAL SPECIFICATION

Ranger DX800i 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 DX800i are road cutting, pipe-line drilling and foundation drilling, as well as production drilling in medium size quarries. Therefore DX800i 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:	64 - 127 mm (3" - 5")*
Rock tools:	38 mm, 45 mm, 51mm (1½", 1¾" and 2")
Rock Drill	25kW, 21kW
Engine output:	185kW
Flushing air:	8.5 m3/min, up to 10 bar
Production capacity:	1,8 Mt/year
Total weight:	19 600 kg

^{*}if larger than 115mm holes drilled please consult factory



3.2 km/h

Max. tramming speed

HYDRAULIC ROCK DRILL Rock drill	RD925M, RD925M-C, RD921S,		
ROCK UTIII	RD921S-C	POWERPACK	
Rock tools	45, 51, mm	Engine type	Volvo TAD881VE (EU Stage V
Operating pressure	100-200 bar	DEF tank	AdBlue, 45 l
Percussion rate	69 Hz/71 Hz	Number of cylinders	6
Percussion output power	25kW/21kW	Engine output	185kW / 1 800 rpm
Maximum rotation torque	1 750 Nm	Transmission type	Gear box
Shank lubrication	Air / oil mist	Screw compressor type	Enduro 25
Flushing	Air	Air filters	2 pcs., with ejector and safety element
Weight	345 kg	Fuel tank	400 l
FEED			
Feed type	CylF 16 feed, CylF 18 (option)	HYDRAULIC SYSTEM 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,
Rock drill travel	4 680 mm, 5 290mm	Number of pistorr pumps	boom and rodhandling, dust
Max. length of starter rod	4 875 mm (16'), 5 486 mm (18') (option)	Filtration rate	10 micron abs., return 25 micron, pressure
Hole depth with starter rod	4 480 mm, 5 090 mm (option)	Cooling capacity	up to +50°C ambient
Hole depth with second rod	8138 mm	Hydraulic oil tank	3001
Hose reel	Standard	Shank lubrication device	SLU 22-1 CSL (option)
Feed extension travel	1300 mm		
Feed/pull out force	28 kN	CONTROL OVOTEM	
Feed swing	-45°/+45° (-20°/+94°)	CONTROL SYSTEM Control system type	Sandvik SICA, PLC controlled
Feed tilt	140°		proportional electro- hydraulio
Minimum height for horizontal holes	410 mm	Tramming/boom/ drilling control	PLC controlled
		User interface	Electro-proportional joysticks and touchscreen
ROD CHANGER		Control system diagnostics	Graphical flow chart type
Rod changer type	RC1712	Drilling control system type	iTorque
Storage capacity	7+1 rods (51 mm), 6+1 (60mm,	Antijamming system	For rotation and flushing
Rod length	st. feed), 5+1 (60mm long feed) 3050, 3660, 4267 (10',	Collaring control	Automatic
Rod length	12',14'*)*(option)	Preset drilling parameters	Adjustable for fine tuning for
Max. hole depth	30 m,(7x12'+1x16'), 34,3m* (7x14'+1x18') *(option), 25m	Voltage	different rock conditions 24 VDC
	(60mm)		
BOOM		DUST COLLECTOR Dust collector type	DC 900H
Boom type	DB5200, articulated	Capacity/vacuum	23 m3/min at 1 000 mm
Boom reach	5,2 m	Capacity/vacuum	vacuum H2O
Drilling coverage	55m² 290°	Filter elements/material	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 Track type	FL 6
Certificates	F.O.P.S. and R.O.P.S.	Track type	
Noise level in the cabin	below 75 dB(A)	Grouser plate width	310 mm
Air conditioning	Intelligent air condition safety	Ground contact length	2 750 mm
Pressurization	+ * Standard	Ground pressure	1.0 kg/cm2
Seat	Multiposition	Ground clearance	400 mm
Vibration dampening	Standard	Turnable superstructure	CCW180°+CW110°
Windows	Safety laminated, tinted, with	Oscillation angles	+/- 10°
TTHIUUVVS	wipers	Tramming force	156 KN
			0.01//-

12 VDC

* Air condition system contains fluorinated greenhouse gases

Power take-off

HFC-134a

STANDARD COMPONENTS

1 pc	Rock drill RD925M,	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 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 devices, EN16228

THE JAWS FOR DRILL STEELS

DRILL STEEL TYPE	DRILL STEEL	RECOMMENDED
	DIAMETER	HOLE DIAMETER
MF-rods	38 mm 1 ½"	64 - 70 mm 2 ½" - 2
		3/4"
MF-rods	45 mm 1 ¾"	76 - 89 mm 3" - 3
		1/2"
MF-rods	51 mm 2"	89 - 127 mm 3 ½" -
		5"

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

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 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, TIM includet (not with long

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

RD921S 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, CyIF 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) Full radio remote control for drilling, tramming, boom and rod

Three bar grouser plates

Towing hook

handling control

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

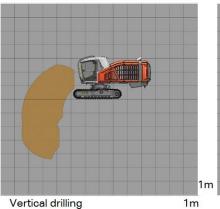
Special tools for RD92x series, field

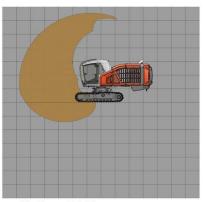
Special tools for RD92x series, complete

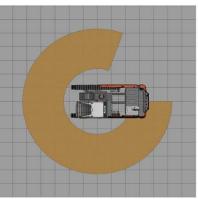
My Sandvik and SanRemo - select level from extra item



COVERAGE AREA AND DIMENSIONS







Horizontal drilling Drilling coverage





DIMENSIONS

Weight	19 600 kg
Width	2.45 m
Height	a/b,3.3 m/4.4 m
With safety cage	a/b,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.

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