

# Ranger DX910i S5 SURFACE DRILLS

#### Technical specification

Ranger DX910i 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 DX910i are road cutting, pipeline drilling and foundation drilling, as well as production drilling in medium size quarries. Therefore DX910i 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, 30kW
Engine output:	210kW
Flushing air:	9.5 m3/min, up to 10 bar
Production capacity:	1,9 Mt/year
Total weight :	19 600 kg

<sup>\*</sup>if larger than 127mm holes drilled please consult factory





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HYDRAULIC ROCK DRILL	
Rock drill	RD927L, RD927L-C, RD930C
Rock tools	45, 51, 60 mm
Operating pressure	100-200 bar/100-240bar
Percussion rate	56Hz/ 45Hz
Percussion output power	27kW/30kW
Maximum rotation torque	1 750 Nm
Shank lubrication	Air / oil mist
Flushing	Air
Weight	345 kg
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FFFD	
FEED Feed type	CylF 16 feed, CylF 18 (option)
Total length	7 500 mm, 8 410mm (option)
Rock drill travel	4 680 mm, 5 290mm (option)
	4 875 mm (16'), 5 486 mm
Max. length of starter rod	(18') (option)
Hole depth with starter rod	4 480 mm, 5 090 mm (option)
Hole depth with second rod	8138 mm
Hose reel	Standard
Feed extension travel	1 300 mm
Feed/pull out force	28 kN
Feed swing	-45°/+45° (-20°/+94°)
Feed tilt	140°
Minimum height for horizontal	410 mm
holes	
ROD CHANGER	
Rod changer type	RC1712
Storage capacity	7+1 rods (51 mm), 6+1 (60mm,
	st. feed), 5+1 (60mm long feed), 4+1 (CT67mm long
	feed)
Rod length	3660, 4267 (12',14'*)*(Long
Max. hole depth	feed option) 30 m,(7x12'+1x16'), 34,3m*
	(7x14'+1x18') *(option), 25m
	(60mm), 20,8m(CT67)
ВООМ	
Boom type	DB5200, articulated
Boom reach	5,2 m
Drilling coverage	55m² 290°
Collaring height	+2.6 m/-4.5 m
Horizontal holes	To the right
CABIN	
Cabin type	iCab
	E000

CABIN	
Cabin type	iCab
Certificates	F.O.P.S. and R.O.P.S.
Noise level in the cabin	below 75 dB(A)
Air conditioning	Intelligent air condition safety*
Pressurization	Standard
Seat	Multiposition
Vibration dampening	Standard
Windows	Safety laminated, tinted, with wipers
Power take-off	12 VDC

<sup>\*</sup> A/C system contains fluorinated greenhouse gases HFC-134a

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Engine type	Volvo TAD882VE (Stage V / Tier 4f)
DEF tank	AdBlue, 45 l
Number of cylinders	6
Engine output	210kW / 1 800 rpm
Transmission type	Gear box
Screw compressor type	Enduro 25
Air filters	2 pcs., with ejector and safety element
Fuel tank	400

# HYDRAULIC SYSTEM

Number of gear pumps	2 pcs. for cooling
Number of piston pumps	3 pcs. for drilling, tramming, boom and rodhandling, dust collector
Filtration rate	10 micron abs., return 25 micron, pressure
Cooling capacity	up to +50°C ambient
Hydraulic oil tank	300
Shank lubrication device	SLU 22-1 CSL (option)

# CONTROL SYSTEM

Sandvik SICA, PLC controlled proportional electro- hydraulics
PLC controlled
Electro-proportional joysticks and touchscreen
Graphical flow chart type
iTorque
For rotation and flushing
Automatic
Adjustable for fine tuning for different rock conditions
24 VDC

# DUST COLLECTOR

Dust collector type	DC 900H
Capacity/vacuum	23 m3/min at 1 000 mm
	vacuum H2O
Filter elements/material	15 pcs/fiber
Total filter surface	12 m2
Primary cyclone	Standard
Movable suction head	Standard

## CARRIER

Track type	FL 6
Grouser plate width	310 mm
Ground contact length	2 750 mm
Ground pressure	1.0 kg/cm2
Ground clearance	400 mm
Turnable superstructure	CCW180°+CW110°
Oscillation angles	+/- 10°
Tramming force	156 KN
Max. tramming speed	3.2 km/h
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#### STANDARD COMPONENTS

1 pc	Rock drill RD927L,	hydraulic with SLU s	ystem
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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 Guides for grousers, long
- 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
- 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 pc Operator's manual (paper copy) 1 pc Alarm beacon
- 1 pc Service light

#### THE JAWS FOR DRILL STEELS

DRILL STEEL	DRILL STEEL	RECOMMENDED
TYPE	DIAMETER	HOLE DIAMETER
MF-rods	45 mm	76 - 89 mm
	1 3/4"	3" - 3 1/2"
MF-rods	51 mm, CT55	89 - 127 mm
	2"	3 1/2" - 5"
MF-rods	60 mm, CT67	92- 140mm
	2 3/8"	3 5/8" - 51/2"

SELECTION OF OPTIONS
Additional tool/bit box 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 cameras
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
My Sandvik Insight
My Sandvik Productivity and Drill Plan Transfer
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 for inclined holes, Open Drill Interface , TIM3D readiness
RockPulse sensor system
Horizontal drilling kit with extra brake, TIMi included (not with
long feed) Long safety cage (not with long feed)*
Kit for alternative steels, each
,
Thread greasing  Full cycle one hole automatic drilling
Full cycle one hole automatic drilling
Full cycle one hole automatic drilling Power extractor
Full cycle one hole automatic drilling Power extractor Readyness for Power Extractor
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Cold-weather package, standard or arctic

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

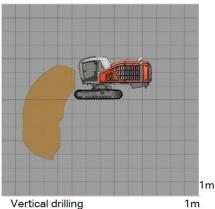
Grinder, Dynaset

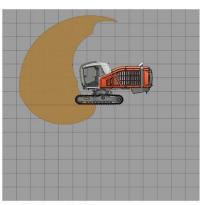
CME mini junior Grinder

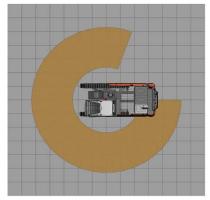
<sup>\*</sup>replacecs standard component



# Coverage area and dimensions







Vertical drilling

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, 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.