# **SANDVIK**

# Ranger DX910i S5 SURFACE DRILLS

# **TECHNICAL SPECIFICATION**

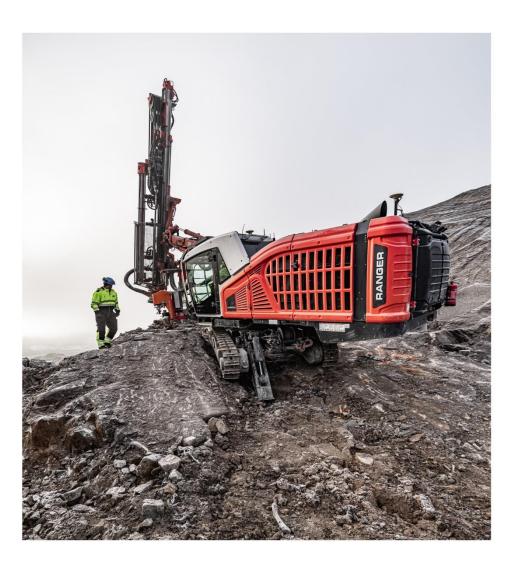
Ranger DX910i is a hydraulic, self-propelled, selfcontained, crawler based surface drilling rig equipped with a cabin (F.O.P.S. and R.O.P.S.) and rod handling system.

Typical applications for DX910i are road cutting, pipe-line 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" - 5.5")*
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

\*if larger than 127mm holes drilled please consult factory



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

## 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
Max. length of starter rod	4 875 mm (16'), 5 486 mm (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 holes	410 mm

### ROD CHANGER Rod changer type

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
noulongin	feed option)
Max. hole depth	30 m,(7x12'+1x16'),
	34,3m* (7x14'+1x18') *(option),
	25m (60mm),
	20,8m(CT67)

### BOOM

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

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

## POWERPACK

Engine type	Volvo TAD882VE (EU 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

Control system type	Sandvik SICA, PLC controlled proportional electro- hydraulics
Tramming/boom/ drilling control	PLC controlled
User interface	Electro-proportional joysticks and touchscreen
Control system diagnostics	Graphical flow chart type
Drilling control system type	iTorque
Antijamming system	For rotation and flushing
Collaring control	Automatic
Preset drilling parameters	Adjustable for fine tuning for different rock conditions
Voltage	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 CCW180°+CW110° Turnable superstructure +/- 10° Oscillation angles Tramming force 156 KN 3.2 km/h Max. tramming speed

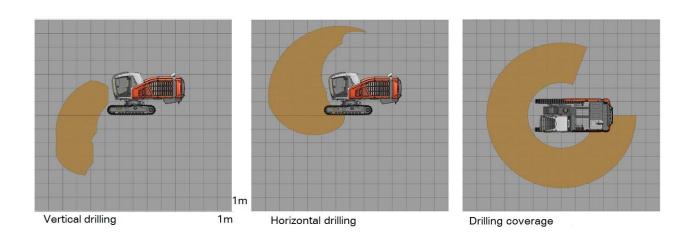
STANDARD COMPONENTS
1 pc Rock drill RD927L, hydraulic with SLU system
1 pc CylF 16 feed HR, With hose reel
1 pc Rod handler RC1712 incl. 1 set of jaws
1 pc BoomDB5200, articulated
1 pc Carrier track mounted, Rotating upper structure
CW180+CCW110 Degrees
1 pc Guides for grousers, long
1 pc Power pack 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
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,
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THE JAWS FOR DRI	LL 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, CT55 2"	89 - 127 mm 3 ½" -
		5"
MF-rods	60 mm, CT67 2	92-140mm 35/8"
	3/8"	- 51⁄2"

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 Yacuum 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) Knowledge Box (4G/LTE and WFI; for My Sandvik) Automatic feed alignment for TIMi GPS aiming device for TIM and TIMi inclined holes TIM3D drill navigation system (Leica) TIM3D drill navigation system (Leica) TIM for inclined holes and hole depth measuring TIMi for inclined holes with TIM3D readiness TIM is present the state of the search of		litional tool/bit box below cabin
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Special tools for RD92x series, field	Wat CM Grir CM Spa Extr	re radio remote transmitter a manuals, price will be added according to pricing sheet

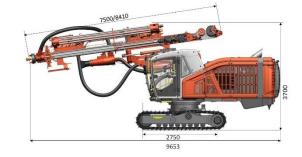


# COVERAGE AREA AND DIMENSIONS





1:	2350/	132	60



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)

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