

# Ranger DX810i T3 SURFACE DRILLS

### Technical specification

Ranger DX810i 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 DX810i are road cutting, pipeline drilling and foundation drilling, as well as production drilling in medium size quarries. Therefore DX810i is most often used by construction contractors, mines and quarries, and also included in the equipment fleet of rental houses as well.

### KEY FEATURES

KETTEMTOTIEG	
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

<sup>\*</sup>if larger than 115mm holes drilled please consult factory





HYDRAULIC ROCK DRILL  Rock drill	RD925M, RD925M-C, RD9219
	RD921S-C
Rock tools	45, 51, mm
Operating pressure	100-200 bar
Percussion rate	69 Hz/71 Hz
Percussion output power	25kW/21kW
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, 8410mm (option)
Rock drill travel	4 680 mm, 5 290mm
Max. length of starter rod	4 875 mm (16'), 5486 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	1300 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	DC1712
Rod changer type	RC1712
Storage capacity	7+1 rods (51 mm), 6+1 (60mn st. feed), 5+1 (60mm long feed)
Rod length	3050, 3660, 4267 (10', 12',14'*)*(option)
Max. hole depth	30 m,(7x12'+1x16'), 34,3m*
	(7x14'+1x18') *(option), 25m (60mm)
BOOM Room type	DB5200, articulated
Boom type Boom reach	5,2 m
	5,2 III 55m² 290°
Drilling coverage	+2.6 m/-4.5 m
Collaring height Horizontal holes	
Horizontal Holes	To the right
CABIN	
Cabin type	iCab
Certificates	F.O.P.S. and R.O.P.S.
Noise level in the cabin	below 78 dB(A)
Air conditioning	Intelligent air condition safety
Pressurization	Standard
Seat	Multiposition
Vibration dampening	Standard
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Windows	Safety laminated, tinted, with wipers

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Volvo TAD851VE 6 185kW / 1 800 rpm Gear box
6 185kW / 1 800 rpm
185kW / 1 800 rpm
Coar hov
Geal DOX
Enduro 25
2 pcs., with ejector and safety element
400
2 pag for agaling
2 pcs. for cooling
3 pcs. for drilling, tramming, boom and rodhandling, dust collector
10 micron abs., return 25
micron, pressure up to +50°C ambient
300 l
SLU 22-1, CSL (option)
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
DC 900H
23 m3/min at 1 000 mm
vacuum H2O 15 pcs/fiber
15 pcs/fiber 12 m2
Standard
Standard
FI /
FL 6
210
310 mm
2 750 mm
2 750 mm 1.0 kg/cm2
2 750 mm 1.0 kg/cm2 400 mm
2 750 mm 1.0 kg/cm2 400 mm CCW180°+CW110°
2 750 mm 1.0 kg/cm2 400 mm

3.2 km/h

Max. tramming speed



### STANDARD COMPONENTS

1 pc	Rock drill	RD925M, h	nydraulic	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 Guides for grousers, long
- 1 pc Power pack diesel driven, hydraulic pumps and on-board compressor with twin pressure control
- $1\ \mathrm{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
- 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

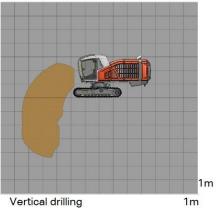
DRILL STEEL	DRILL STEEL	RECOMMENDED
TYPE	DIAMETER	HOLE DIAMETER
MF-rods	38 mm	64 - 70 mm
	1 1/2"	2 1/2" - 2 3/4"
MF-rods	45 mm	76 - 89 mm
	1 3/4"	3" - 3 1/2"
MF-rods	51 mm, CT55	89 - 127 mm
	2"	3 1/2" - 5"

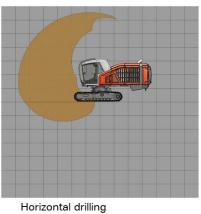
SELECTION OF OPTIONS
Additional tool/bit box below cabin  Alternative seat with 3-point seat belt and air cushioning*
H13 Cabin filter, HEPA
Cooler bag in cabin
Radio CD/MP3 Bluetooth, Handsfree, DAB
Reversing camera Roller blinds for cabin windows
Vacuum cleaner for cabin
Explosion proof cabin window
Heated mirrors*  Driller's Notes - MWD Data Collection for TIM3D
Driller's Office planning software (one-year license)
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
TIMi laser level based depth measuring
TIMi with open interface (Option laser level included)
RockPulse sensor system  Horizontal drilling kit with extra brake, TIMi included (not with
long feed)
Long safety cage (Not with long feed)*
Thread greasing
Safety cage for feed
Full cycle one hole automatic drilling
Full cycle one hole automatic drilling Power extractor
Power extractor Readyness for Power Extractor
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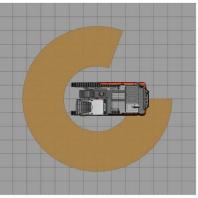
CME Grinder readyness
Grinder, Dynaset
CME mini junior Grinder
\*replaces standard component



# Coverage area and dimensions







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.