

Ranger DX800R S5 SURFACE DRILLS

Technical specification

Ranger DX800R is a hydraulic, self-propelled, self-contained, crawler based surface drilling rig with full radio control.

Typical applications for Ranger DX800R are road cutting, pipe-line drilling and foundation drilling, as well as production drilling in medium size quarries. Therefore Ranger DX800R 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:	76 - 127 mm (3" - 5")
Rock tools:	45 or 51 mm (13/4" and 2")rods
Rock Drill	21/23kW
Engine output:	168 kW (TIER 4F/EU Stage V)
Flushing air:	8.1 m3/min, up to 10 bar
Production capacity:	1,3 Mt/year
Total weight :	15 600 kg





Rock drill	HL/HF 820 T	Engine type
Rock tools	45 and 51 mm	
Operating pressure	100-200 bar	DEF tank
Percussion rate	53/58 Hz	Max. tilt angles
Percussion output power	21/23 kW	Number of cylinders
Maximum rotation torque	1 355 Nm	Engine output
Shank lubrication	Air / oil mist	Transmission type
Flushing	Air	Screw compressor type
Weight	245 kg	Air filters
vveignt		Fuel tank
FEED		-
Feed type	CF 145H	HYDRAULIC SYSTEM
Total length	7 700 mm	Number of gear pumps
Rock drill travel	4 320 mm	Number of piston pumps
Max. length of starter rod	4 875 mm (16')	Number of piston pumps
Hose reel	Standard	Filtration rate
Feed extension travel	1350 mm	Cooling capacity
Feed/pull out force	20 kN	Hydraulic oil tank
Feed swing	-56°/+52° (-20°/+94°)	Shank lubrication device
Feed tilt	125°	
		CONTROL SYSTEM
ROD CHANGER		Control system type
Rod changer type	RH 714	
Storage capacity	6+1 rods	Tramming/boom/ drilling control
Rod length	3050, 3660, 4265 mm (10', 12', 14')	User interface
Max. hole depth	26,8 m (6x12'+1x16')	Drilling control system type
		Antijamming system
BOOM		Collaring control
Boom type	DB 800H, articulated	Voltage
Boom reach	4,8 m	
Drilling coverage	17.6 m² (26.4 m²)	DUCT OOL LEGEOR
Collaring height	+2.5 m/-4.5 m	DUST COLLECTOR Dust collector type
Horizontal holes	To the right	Capacity/vacuum
		Filter elements/material
		Total filter surface

POWERPACK Engine type	Caterpillar C 7.1 (TIER 4F/EU
	Stage V)
DEF tank	AdBlue, 24 I
Max. tilt angles	+/- 45°
Number of cylinders	6
Engine output	168 kW / 1 800 rpm
Transmission type	Gear box
Screw compressor type	Enduro 25
Air filters	2 pcs., with ejector and safety element
Fuel tank	380
HYDRAULIC SYSTEM	A nee for dust collector and
Number of gear pumps	4 pcs. for dust collector and cooling
Number of piston pumps	2 pcs. for drilling, tramming,
Filtration rate	boom and rodhandling
Filtration rate	12 micron abs., return 25 micron, pressure
Cooling capacity	up to +50°C ambient
Hydraulic oil tank	2001
Shank lubrication device	SLU 14-1
CONTROL SYSTEM	
Control system type	Hydraulic pilot control and relay logic
Tramming/boom/ drilling control	Pilot/direct/ pilot controlled
User interface	Radio remote and pressure
Drilling control system type	gauges Rock Pilot+
Antijamming system	For rotation standard and
	flushing optional
Collaring control	Stepless
Voltage	24 VDC
DUST COLLECTOR	
Dust collector type	DC 810H
Capacity/vacuum	23 m3/min at 1 000 mm
Filter elements/material	vacuum H2O 13 pcs/fiber
Total filter surface	10.4 m2
Primary cyclone	Standard
Movable suction head	Standard
	Canadia
CARRIER	
Track type	FL 6
Grouser plate width	310 mm
Ground contact length	2 590 mm
Ground pressure	0.81 kg/cm2
Ground pressure Ground clearance	440 mm

121 Kn

3.5 km/h

Tramming force

Max. tramming speed



STANDARD COMPONENTS

1 pc Rock drill HL 820 T, hydraulic
1 pc Chain feed CF 145H with movable drill steel support
1 pc Rod handler RH 714 incl. 1 set of jaws
1 pc Boom DB 800 H, articulated
1 pc Carrier track mounted, turnable superstructure
Guides for grousers
1 pc Power pack diesel driven, hydraulic pumps and on-board
compressor with twin pressure control
1 pc Control system Rock Pilot+, full radio remote
1 pc Dust collection system DC 810 H, hydraulic, Primary
separator
9 pcs Working lights
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 Hose reel
1 no Convice light hand hold 101/ magnetic

THE JAWS FOR DRILL STEELS

1 pc Service light, hand held 12V magnetic EU-safety devices, EN16228

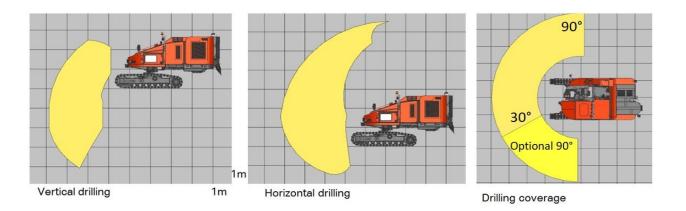
DRILL STEEL	DRILL STEEL	RECOMMENDED
TYPE	DIAMETER	HOLE DIAMETER
Extension rods	45 mm	76 - 89 mm
	1 3/4"	3" - 3 1/2"
MF-rods	45 mm	76 - 89 mm
	1 3/4"	3" - 3 1/2"
MF-rods	51 mm	89 - 127 mm
	2"	3 1/2" - 5"
Extension rods	51 mm	89 - 127 mm
	2"	3 1/2" - 5"

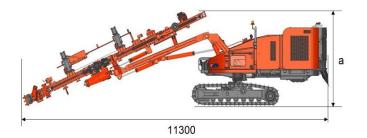
SELECTION OF OPTIONS

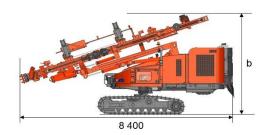
Driller's Notes - MWD Data Collection for TIM3D
Driller's Office planning software (one-year license)
Knowledge Box for TIM3D or readiness (4G/LTE and WiFi for My
Sandvik)
Knowledge Box for TIM5300-6700 (4G/LTE for My Sandvik, no
WiFi)
+ My Sandvik Insight, 1-yr license
+ My Sandvik Wireless Drill Plan Transfer 1-yr license
(Productivity)
2000RPM Engine, 9,1m^3/min compressor
TIM 5200 for vertical holes
TIM 5300 for vertical holes and depth measuring
TIM 6300 inclined holes, depth measuring and GPS aiming
TIM 6300 with open interface
TIM 6500 inclined holes, depth measuring, laser level and GPS
aiming
TIM 6700 (TIM6500 with open interface)
TIM3D drill navigation system (Leica)
Horizontal drilling kit
EN 16228 Safety cage for feed, long
Feed 5 485 mm (18'), without hose reel and horizontal drilling
Long feed 6069 mm 20', no rod changer
Thread greasing
Thread greasing with 5 gallon bucket
Power extractor
Readyness for Power Extractor
HF820T rock drill (replaces standard component)
Anti- freeze system for air lines
Biogradeable hydraulic oil, not with CSL
Central lubrication system Sandvik
Central lubrication system Lincoln
Electric fuel filling pump
Fast fill connection for fuel Wiggins
Hydraulic rear ground support
Hydraulic winch
Remote Screen Interface for TIMi and TIM3D
Led lights, 6 pcs
Three bar grouser plates
Towing hook
Turnable superstructure 180 deg.
Fuel powered heater for engine
Fuel powered heater for engine and water tank
Readyness for fuel powered heater
Dustmizer, water injection option included (engine heater option
needed below freezing point)
Flushing control automatics Sampling device
Shut down of suction for water holes
Water injection system
Grinder, Dynaset
CME mini junior Grinder
Spare radio remote transmitter



Coverage area and dimensions







DIMENSIONS

Weight	15 600 kg
Width	2.45 m
Height	a/b, 3.2 m/3.6 m
With safety cage	3.3 m/3.8 m
With noise silencer	3.3 m/4.0 m
Total length	11.3 m/8.4 m



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