



# Ranger DX800R T3 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
Flushing air:	8.1 m3/min, up to 10 bar
Production capacity:	1,3 Mt/year
Total weight :	15 200 kg





Rock drill	HL/HF 820T	Engine type
Rock tools	45 and 51 mm	Max. tilt angles
Operating pressure	100-200 bar	Number of cylinders
Percussion rate	53/58 Hz	Engine output
Percussion output power	21/23 kW	Transmission type
Maximum rotation torque	1 355 Nm	Screw compressor type
Shank lubrication	Air / oil mist	Air filters
Flushing	Air	
Weight	245 kg	Fuel tank
FFFD		HYDRAULIC SYSTEM
FEED Feed type	CF 145H	Number of gear pumps
Total length	7 700 mm	Number of piston pumps
Rock drill travel	5 020 mm without hose reel	rtamber of ploten pampe
Max. length of starter rod	5 485 mm (18') without hose	Filtration rate
wax. length of starter roa	reel	Cooling capacity
Hose reel	Optional	Hydraulic oil tank
Feed extension travel	1350 mm	Shank lubrication device
Feed/pull out force	20 kN	- Chank labileation device
Feed swing	-56°/+52° (-20°/+94°)	
Feed tilt	125°	CONTROL SYSTEM
		Control system type
ROD CHANGER		Tramming/boom/ drilling control
Rod changer type	RH 714	User interface
Storage capacity	6+1 rods	
Rod length	3050, 3660, 4265 mm (10', 12', 14')	Drilling control system tyl  Antijamming system
Max. hole depth	29 m (7x14')*	
		Collaring control
ВООМ		Voltage
Boom type	DB 800H, articulated	
Boom reach	4,8 m	DUST COLLECTOR
Drilling coverage	17.6 m² (26.4 m²)	Dust collector type
Collaring height	+2.5 m/-4.5 m	Capacity/vacuum
Horizontal holes	To the right	Filter elements/material
	-	Total filter surface
		Primary cyclone

POWERPACK	
Engine type	Caterpillar C 7.1 (TIER 3)
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
HADDVIII IC GAGLEM	
Number of gear pumps	4 pcs. for dust collector and
	cooling
Number of piston pumps	2pcs. for drilling, tramming, boom and rodhandling
Filtration rate	12 micron abs., return 25
Cooling capacity	micron, pressure up to +50°C ambient
Hydraulic oil tank	200
Shank lubrication device	SLU 14-1
Shark lubilication device	3L0 14-1
CONTROL SYSTEM	
Control system type	Hydraulic pilot control and relay
T ( ( ) ( ) ( ) ( )	logic
Tramming/boom/ drilling control	Pilot/direct/ pilot controlled
User interface	Radio remote and pressure
	gauges
Drilling control system type	Rock Pilot+
Antijamming system	For rotation standard and flushing optional
Collaring control	Stepless
Voltage	24 VDC
<u> </u>	
DUCT COLL FOTOD	
DUST COLLECTOR  Dust collector type	DC 810H
Capacity/vacuum	23 m3/min at 1 000 mm
σαρασιτη νασααιτί	vacuum H2O
Filter elements/material	13 pcs/fiber
Total filter surface	10.4 m2
Primary cyclone	Standard
Movable suction head	Standard
OA DDIED	
CARRIER Track type	FL 6
**	
Grouser plate width	310 mm
Ground contact length	2 590 mm
Ground pressure	0.81 kg/cm2
Ground clearance	440 mm
Turnable superstructure	120° / 180°
Oscillation angles	+/- 10°

121 Kn

3.5 km/h

Tramming force

Max. tramming speed



### STANDARD COMPONENTS

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

## THE JAWS FOR DRILL STEELS

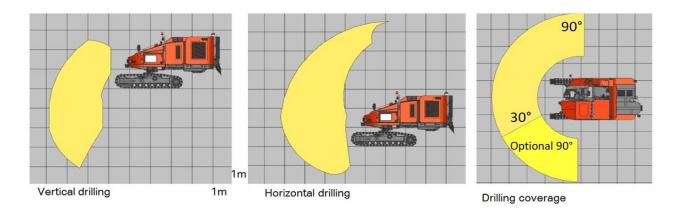
DRILL STEEL	DRILL STEEL	RECOMMENDED
TYPE	DIAMETER	HOLE DIAMETER
Extension rods	45 mm	76 - 89 mm
	1 3/4"	3" - 3 1/2"
MF-rods	45 mm	76 - 89 mm
	1 3/4"	3" - 3 1/2"
MF-rods	51 mm	89 - 127 mm
	2"	3 1/2" - 5"
Extension rods	51 mm	89 - 127 mm
	2"	3 1/2" - 5"

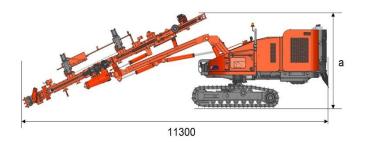
## SELECTION OF OPTIONS

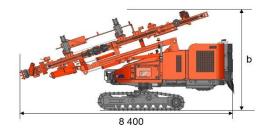
SELECTION OF OPTIONS	
Driller's Notes - MWD Data Collection for TIM3D	
Driller's Office planning software (one-year license)	
Knowledge Box for TIM3D or readiness (4G/LTE and WiFi for M	7
Sandvik)	
Knowledge Box for TIM5300-6700 (4G/LTE for My Sandvik, no	
WiFi)	
+ My Sandvik Insight, 1-yr license, BG01722724	
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	
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	n
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	15 200 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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