



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, pipeline 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 (1½" 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



HYDRAULIC ROCK DRILL	
Rock drill	HL/HF 820 T
Rock tools	45 and 51 mm
Operating pressure	100-200 bar
Percussion rate	53/58 Hz
Percussion output power	21/23 kW
Maximum rotation torque	1 355 Nm
Shank lubrication	Air / oil mist
Flushing	Air
Weight	245 kg

FEED	
Feed type	CF 145H
Total length	7 700 mm
Rock drill travel	4 320 mm
Max. length of starter rod	4 875 mm (16')
Hose reel	Standard
Feed extension travel	1350 mm
Feed/pull out force	20 kN
Feed swing	-56°/+52° (-20°/+94°)
Feed tilt	125°

ROD CHANGER	
Rod changer type	RH 714
Storage capacity	6+1 rods
Rod length	3050, 3660, 4265 mm (10', 12', 14')
Max. hole depth	26,8 m (6x12'+1x16')

BOOM	
Boom type	DB 800H, articulated
Boom reach	4,8 m
Drilling coverage	17.6 m² (26.4 m²)
Collaring height	+2.5 m/-4.5 m
Horizontal holes	To the right

POWERPACK	
Engine type	Caterpillar C 7.1 (TIER 4F/EU Stage V)
DEF tank	AdBlue, 24 l
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 l

HYDRAULIC SYSTEM	
Number of gear pumps	4 pcs. for dust collector and cooling
Number of piston pumps	2 pcs. for drilling, tramming, boom and rodhandling
Filtration rate	12 micron abs., return 25 micron, pressure
Cooling capacity	up to +50°C ambient
Hydraulic oil tank	200 l
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 gauges
Drilling control system type	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 vacuum H2O
Filter elements/material	13 pcs/fiber
Total filter surface	10.4 m2
Primary cyclone	Standard
Movable suction head	Standard

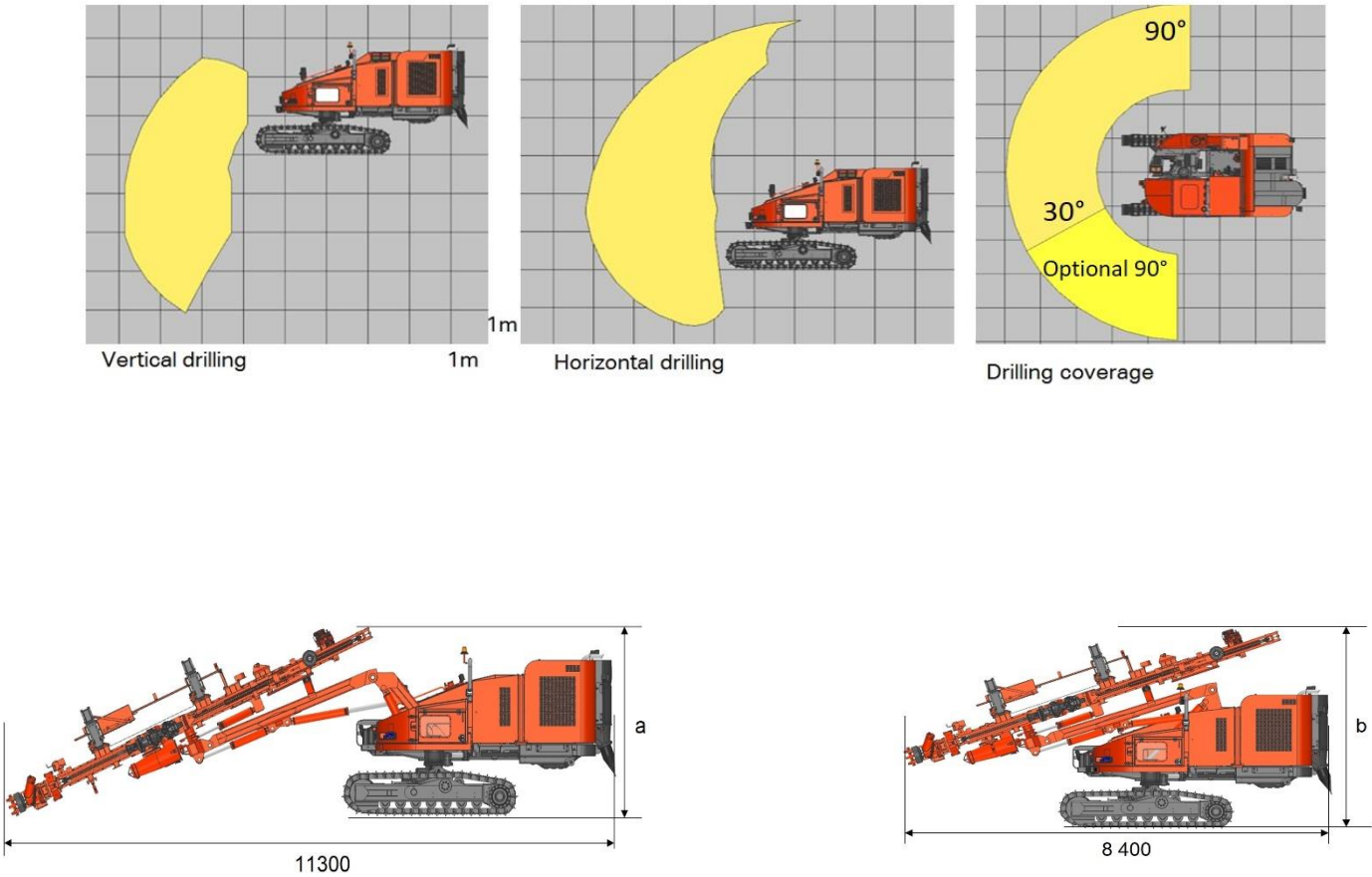
CARRIER	
Track type	FL 6
Grouser plate width	310 mm
Ground contact length	2 590 mm
Ground pressure	0.81 kg/cm2
Ground clearance	440 mm
Turnable superstructure	120° / 180°
Oscillation angles	+/- 10°
Tramming force	121 Kn
Max. tramming speed	3.5 km/h

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	
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 Set	Manuals, paper copy	
1 Set	Manuals, USB memory	
1 pc	Alarm beacon	
1 pc	Hose reel	
1 pc	Service light, hand held 12V magnetic	
EU-safety devices, EN16228		

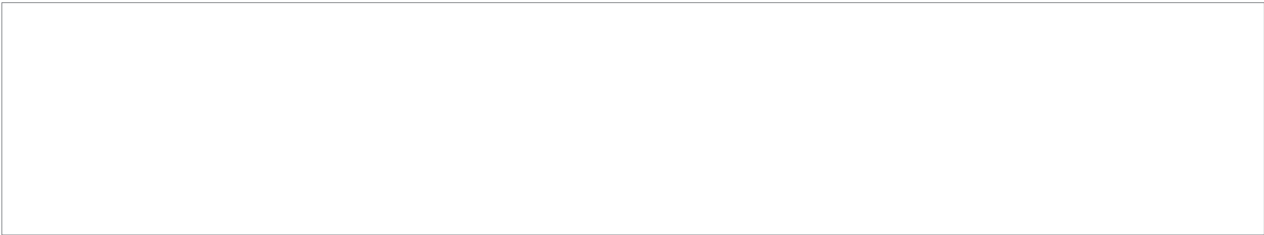
THE JAWS FOR DRILL STEELS		
DRILL STEEL TYPE	DRILL STEEL DIAMETER	RECOMMENDED HOLE DIAMETER
Extension rods	45 mm 1 ¾"	76 - 89 mm 3" - 3 ½"
MF-rods	45 mm 1 ¾"	76 - 89 mm 3" - 3 ½"
MF-rods	51 mm 2"	89 - 127 mm 3 ½" - 5"
Extension rods	51 mm 2"	89 - 127 mm 3 ½" - 5"

SELECTION OF OPTIONS	
Driller's Notes - MWD Data Collection for TIM3D	
Driller's Office planning software (one-year license)	
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	
Kit for alternative steels, each	
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	
Biodegradable hydraulic oil, not with CSL	
Central lubrication system Sandvik	
Electric fuel filling pump	
Fast fill connection for fuel Wiggins	
Guides for grousers, long	
Hydraulic rear ground support	
Hydraulic winch	
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 (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	
First service kit for Ranger DX800	
Special tools for HL 820 T, field kit	
Special tools for HL 820 T, compete	
My Sandvik and SanRemo	

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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