

# Ranger DX800R T4 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 (1¾" 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 :	15 600 kg



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',		
Max. hole depth	14') 26,8 m (6x12'+1x16')		
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DOOM			
BOOM Boom type	DB 800H, articulated		
Boom reach	4,8 m		
Drilling coverage	17.6 m² (26.4 m²)		
Drining Coverage	, ,		
Collaring height	+2.5 m/-4.5 m		

POWERPACK Engine type Caterpillar C 7.1 (TIER 4F) 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 I  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 I Shank lubrication device SLU 14-1  CONTROL SYSTEM Control system type Hydraulic pilot control and relay logic Tramming/boom/ drilling control User interface Radio remote and pressure gauges Drilling control system type User interface 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 control eleavance 440 mm Turnable superstructure 120° / 180° Oscillation angles +/- 10°			
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Control system type  Tramming/boom/ drilling control User interface  Drilling control system type  Antijamming system  Collaring control  Stepless  Voltage  DEST COLLECTOR  Dust collector type  Capacity/vacuum  Capacity/vacuum  Total filter surface  Total filter surface  CARRIER  Track type  Ground contact length  Ground clearance  Ground clearance  Turnable superstructure  Tiller control system type  Radio remote and pressure gauges  Pilot/direct/ pilot controlled  Total pressure  Standard and  flushing optional  Stepless  Voltage  DC 810H  Capacity/vacuum 23 m3/min at 1 000 mm  vacuum H2O  Tunable superstructure  DC 810H  Standard  13 pcs/fiber  Total filter surface  10.4 m2  Primary cyclone  Standard  Standard		SLU 14-1	
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Movable suction head  CARRIER  Track type  Grouser plate width  Ground contact length  Ground pressure  Ground clearance  Turnable superstructure  Standard  FL 6  Growm  310 mm  2 590 mm  0.81 kg/cm2  Ground clearance  440 mm  Turnable superstructure  120° / 180°			
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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°	CARRIER		
Ground contact length 2 590 mm  Ground pressure 0.81 kg/cm2  Ground clearance 440 mm  Turnable superstructure 120° / 180°		FL 6	
Ground pressure 0.81 kg/cm2  Ground clearance 440 mm  Turnable superstructure 120° / 180°	Grouser plate width	310 mm	
Ground clearance 440 mm Turnable superstructure 120° / 180°	Ground contact length	2 590 mm	
Turnable superstructure 120° / 180°	Ground pressure	0.81 kg/cm2	
·	Ground clearance	440 mm	
Oscillation angles +/- 10°	Turnable superstructure	120° / 180°	
	Oscillation angles	+/- 10°	

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
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, CD rom
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

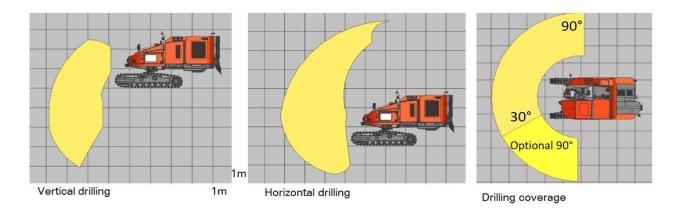
DRILL STEEL TYPE	DRILL STEEL DIAMETER	RECOMMENDED HOLE DIAMETER
Extension rods	45 mm 1 ¾"	76 - 89 mm 3" - 3
MF-rods	45 mm 1 ¾"	76 - 89 mm 3" - 3
	54 0"	1/2"
MF-rods	51 mm 2"	89 - 127 mm 3 ½" - 5"
Extension rods	51 mm 2"	89 - 127 mm 3 ½" - 5"

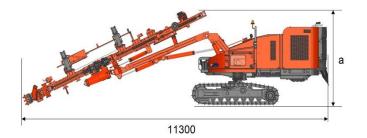
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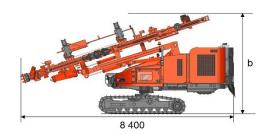
SELECTION OF OPTIONS
Spirit level angle indicator
TIM 5200 for vertical holes
TIM 5300 for vertical holes and depth measuring
TIM 6300 for inclined holes and depth measuring
TIM 6300 inclined holes, depth measuring and GPS aiming
TIM 6500 for inclined holes, depth measuring and laser level
TIM 6500 inclined holes, depth measuring, laser level and GPS
aiming
TIM 6700 (TIM6500 with open interface)
Horizontal drilling kit
Horizontal drilling kit including hose reel
EN 16228 Safety cage for feed, long (includes hose reel)
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)
HF820 T rock drill. Replaces standard components
Anti- freeze system for air lines
Biogradeable hydraulic oil
Central lubrication system Sandvik
Electric fuel filling pump
Fast fill connection for fuel Wiggins
Guides for grousers, long
Hydraulic rear ground support
Hydraulic winch
Hydraulic which with radio remote and cable tightness automatics
Led lights, 6 pcs
Radio remote control for rear ground support, tramming and
oscillation
Full radio remote control for drilling, tramming, boom and rod
handling
I hree har drouser histes
Three bar grouser plates Towing book
Towing hook
Towing hook Turnable superstructure 180 deg.
Towing hook Turnable superstructure 180 deg. Xenon lights, 6 pcs
Towing hook Turnable superstructure 180 deg. Xenon lights, 6 pcs Fuel powered heater for engine and cabin
Towing hook Turnable superstructure 180 deg. Xenon lights, 6 pcs Fuel powered heater for engine and cabin Fuel powered heater for engine, cabin and water tank
Towing hook Turnable superstructure 180 deg. Xenon lights, 6 pcs Fuel powered heater for engine and cabin Fuel powered heater for engine, cabin and water tank Fuel powered heater for engine and water tank
Towing hook Turnable superstructure 180 deg. Xenon lights, 6 pcs Fuel powered heater for engine and cabin Fuel powered heater for engine, cabin and water tank Fuel powered heater for engine and water tank Readyness for fuel powered heater
Towing hook Turnable superstructure 180 deg. Xenon lights, 6 pcs Fuel powered heater for engine and cabin Fuel powered heater for engine, cabin and water tank Fuel powered heater for engine and water tank Readyness for fuel powered heater Dustmizer (engine heater option needed below freezing point)
Towing hook Turnable superstructure 180 deg. Xenon lights, 6 pcs Fuel powered heater for engine and cabin Fuel powered heater for engine, cabin and water tank Fuel powered heater for engine and water tank Readyness for fuel powered heater Dustmizer (engine heater option needed below freezing point) Flushing control automatics
Towing hook Turnable superstructure 180 deg. Xenon lights, 6 pcs Fuel powered heater for engine and cabin Fuel powered heater for engine, cabin and water tank 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
Towing hook Turnable superstructure 180 deg. Xenon lights, 6 pcs Fuel powered heater for engine and cabin Fuel powered heater for engine, cabin and water tank 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
Towing hook Turnable superstructure 180 deg. Xenon lights, 6 pcs Fuel powered heater for engine and cabin Fuel powered heater for engine, cabin and water tank 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
Towing hook Turnable superstructure 180 deg. Xenon lights, 6 pcs Fuel powered heater for engine and cabin Fuel powered heater for engine, cabin and water tank 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 Sandvik RG420H
Towing hook Turnable superstructure 180 deg. Xenon lights, 6 pcs Fuel powered heater for engine and cabin Fuel powered heater for engine, cabin and water tank 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 Sandvik RG420H Spare radio remote transmitter
Towing hook Turnable superstructure 180 deg. Xenon lights, 6 pcs Fuel powered heater for engine and cabin Fuel powered heater for engine, cabin and water tank 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 Sandvik RG420H Spare radio remote transmitter Extra manuals, price will be added according to pricing sheet
Towing hook Turnable superstructure 180 deg. Xenon lights, 6 pcs Fuel powered heater for engine and cabin Fuel powered heater for engine, cabin and water tank 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 Sandvik RG420H Spare radio remote transmitter Extra manuals, price will be added according to pricing sheet First service kit for Ranger DX800
Towing hook Turnable superstructure 180 deg. Xenon lights, 6 pcs Fuel powered heater for engine and cabin Fuel powered heater for engine, cabin and water tank 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 Sandvik RG420H Spare radio remote transmitter Extra manuals, price will be added according to pricing sheet First service kit for Ranger DX800 First service kit for DX780, DX800
Towing hook Turnable superstructure 180 deg. Xenon lights, 6 pcs Fuel powered heater for engine and cabin Fuel powered heater for engine, cabin and water tank 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 Sandvik RG420H Spare radio remote transmitter Extra manuals, price will be added according to pricing sheet First service kit for Ranger DX800 First service kit for DX780, DX800 Special tools for HL 820 T, field kit
Towing hook Turnable superstructure 180 deg. Xenon lights, 6 pcs Fuel powered heater for engine and cabin Fuel powered heater for engine, cabin and water tank 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 Sandvik RG420H Spare radio remote transmitter Extra manuals, price will be added according to pricing sheet First service kit for Ranger DX800 First service kit for DX780, DX800 Special tools for HL 820 T, field kit Special tools for HL 820 T, compete
Towing hook Turnable superstructure 180 deg. Xenon lights, 6 pcs Fuel powered heater for engine and cabin Fuel powered heater for engine, cabin and water tank 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 Sandvik RG420H Spare radio remote transmitter Extra manuals, price will be added according to pricing sheet First service kit for Ranger DX800 First service kit for DX780, DX800 Special tools for HL 820 T, field kit Special tools for HL 820 T, compete Service agreement - select level from extra item
Towing hook Turnable superstructure 180 deg. Xenon lights, 6 pcs Fuel powered heater for engine and cabin Fuel powered heater for engine, cabin and water tank 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 Sandvik RG420H Spare radio remote transmitter Extra manuals, price will be added according to pricing sheet First service kit for Ranger DX800 First service kit for DX780, DX800 Special tools for HL 820 T, field kit Special tools for HL 820 T, compete
Towing hook Turnable superstructure 180 deg. Xenon lights, 6 pcs Fuel powered heater for engine and cabin Fuel powered heater for engine, cabin and water tank 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 Sandvik RG420H Spare radio remote transmitter Extra manuals, price will be added according to pricing sheet First service kit for Ranger DX800 First service kit for DX780, DX800 Special tools for HL 820 T, field kit Special tools for HL 820 T, compete Service agreement - select level from extra item



## **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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