

Ranger DX800

Surface Top Hammer Drills



Ranger DX800 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 DX800 are road cutting, pipe-line drilling and foundation drilling, as well as production drilling in medium size quarries. Therefore DX800 is most often used by construction contractors, mines and quarries, and also included in the equipment fleet of rental houses as well.

Hole Diameter:	76 - 127 mm (3" - 5")
Rock Tools:	45 or 51 mm (1 ¾" and 2") rods
Rock Drill:	21/23kW
Engine Output:	168 kW
Flushing Air:	8.1 m ³ /min, up to 10 bar
Production Capacity:	1,3 Mt/year
Total Weight	15 600 kg

HYDRAULIC ROCK DRILL

Rock drill type	HL/HF 820 T
Drill rod diameters	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
Length of feed	7 700 mm
Rock drill travel	4320 mm
Max. length of starter rod	4875 mm (16')
Feed/pull out force	20 kN
Travelling hose reel	Standard
Front jaws	Centralizing Pito 12H
Feed extension travel	1350 mm
Feed swing	-56°/+52° (-20°/+94°)
Feed tilt	125°
Weight without steels	1 200 kg

ROD CHANGER

Rod handler type	RH 714
Storage capacity	6+1 rods
Steel lengths	3050, 3660,mm (10', 12')
Max. hole depth	26,8 m (6x12'+1x16')
3660,mm (12')	
4875,mm (16')	

BOOM

Boom type	DB 800H, articulated
Boom length	4,8 m
Drilling coverage on flat	17.6 m ² (26.4 m ²)
Collaring height	+2.5 m/-4.5 m
Horizontal holes	To the right

CABIN

Cabin type	Ergo
Certificates	F.O.P.S. and R.O.P.S.
Noise level in the cabin	below 80 dB(A)
Controls	Drilling, tramming, boom and rod changer
Heaters	Standard
Pressurization	Standard
Seat	Multiposition
Vibration dampening	Standard
Windows	Safety laminated, tinted, with wipers
Power take-off	12 VDC

POWERPACK

Engine type	Caterpillar C 7.1 (TIER 4F)
DEF tank	AdBlue, 24 l
Max. tilt angles	+/- 45°
Number of cylinders	6
Engine output	168 kW / 1 800 rpm
Transmission type	Gear box
Hydraulic pumps	2 variable, displacement piston, 3 gear pumps
Screw compressor type	Enduro 25
Flushing air capacity	8,1 m ³ /min
Flushing air pressure	4 - 10 bar
Air cleaner	2 pcs., with ejector and safety element
Fuel tank	380 l
Fuel saving system	Standard
Weight	1 200 kg

HYDRAULIC SYSTEM

Driving, boom and drilling	Load sensing system
Cooling and dust collector	Open center
Filtration rate	12 micron abs., return 25 micron, pressure up to +50°C ambient
Cooling capacity	up to +50°C ambient
Hydraulic oil tank	200 l
Shank lubrication device	SLU 14-1

CONTROL SYSTEM

Driving control	Pilot operated, hydraulic
Boom control	Direct operated, hydraulic
Drilling	Pilot controlled (el/hydr.)
Rod handler	Electric remote
Collaring control	Stepless
Percussion control	Controlled by feed pressure (THC 700)
Antijamming system	Hydraulic
Voltage	24 VDC

DUST COLLECTOR

Dust collector type	DC 810H
Capacity/vacuum	23 m ³ /min at 1 000 mm vacuum H ₂ O
Filter elements/material	13 pcs/fiber
Total filter surface	10.4 m ²
Weight	200 kg

CARRIER

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

STANDARD COMPONENTS

Rock drill	HL820 T , hydraulic
Chain feed	CF 145H, with hose reel
Rod handler	RH 714 incl. 1 set of jaws
Boom	DB 800H, articulated
Carrier	Track mounted, turnable superstructure
Powerpack	Diesel driven, hydraulic pumps and on-board compressor
Hydraulic system	Load sensing and open center
Control system	Rock Pilot+
Movable drill steel support	
Cabin	F.O.P.S. and R.O.P.S. and Air conditioning
Dust collector	DC 810 H, hydraulic Primary separator
Working lights	9 pcs
Gauge set	For accumulator pressure checking
EU-safety devices	EN 16228, service light, alarm signal, alarm beacon
Manuals	1 x paper copy 1 x CD-ROM (ToolMan)

THE JAWS FOR DRILL STEELS

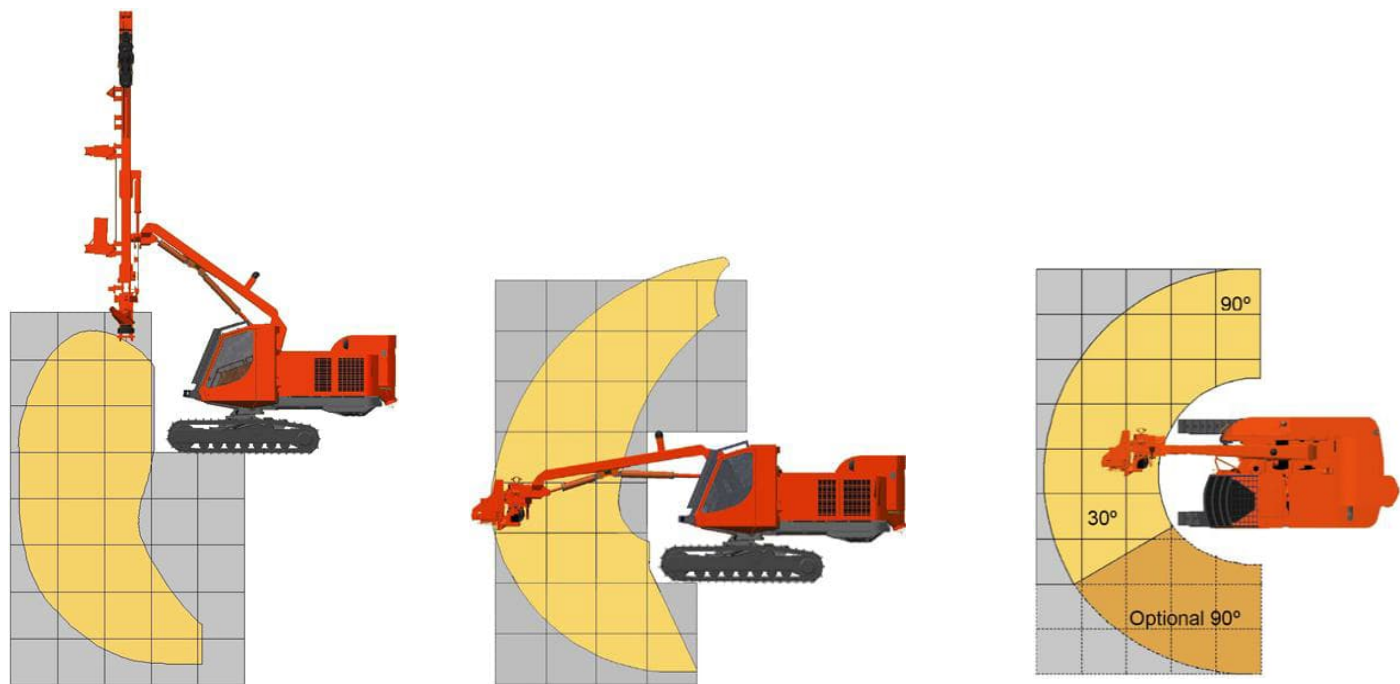
Drill steel type	Drill steel diameter	Recommended hole diameter
Extension rods	45 mm 1 ¾"	76 - 89 mm 3" - 3 ½"
MF-rod	45 mm 1 ¾"	76 - 89 mm 3" - 3 ½"
MF-rod	51 mm 2"	89 - 127 mm 3 ½" - 5"
Extension rods	51 mm 2"	89 - 127 mm 3 ½" - 5"

Note: not with 10' MF-rods. With hose reel only 10' or 12' rods. 51 mm (2") extension rods only 5 + 1. If several jaws selected please specify jaws assembled

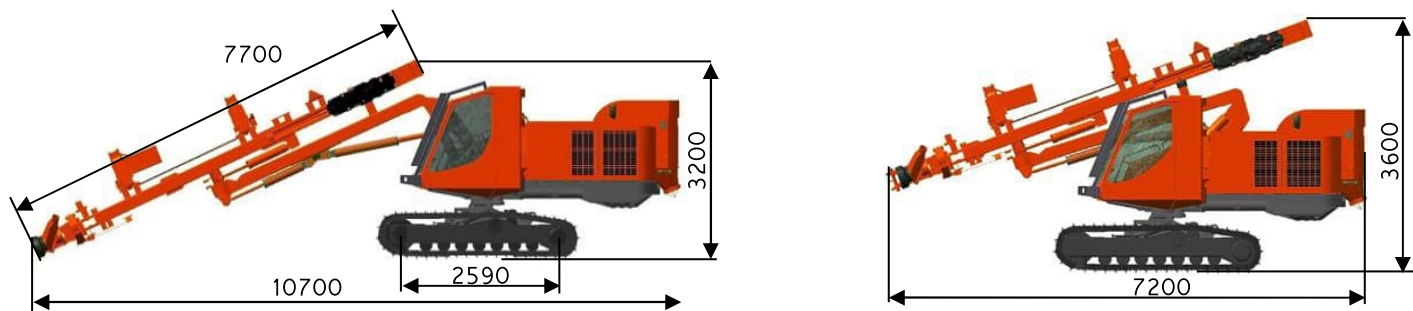
SELECTION OF OPTIONS

1.	Turnable superstructure 180 deg.	25.	Three bar grouser plates
2.	HF 820 T rock drill	26.	Towing hook
3.	Alternative seat ISRI 6000	27.	Xenon lights, 6 pcs
4.	Radio and CD-MP3 player	28.	Hydraulic rear ground support
5.	Reversing camera	29.	Winch with radio remote control and cable tightness automatics
6.	Vacuum cleaner for cabin	30.	Radio remote control for rear ground support, tramming and oscillation
7.	TIM 5200 for vertical holes	31.	Fuel powered heater for engine and cabin
8.	TIM 5300 for vertical holes and depth measuring	32.	Fuel powered heater for engine, cabin and water tank
9.	TIM 6300 for inclined holes and depth measuring	33.	Readiness for fuel powered heater
10.	TIM 6500 for inclined holes, depth measuring and laser level (double receiver)	34.	Electric fuel filling pump
11.	TIM 6700 with interface to external navigation system	35.	Grinder Sandvik RG420H
12.	GPS aiming device for TIM 6300 and TIM 6500	36.	Central lubrication system Sandvik
13.	TIM3D navigation system	37.	Biodegradable hydraulic oil, Shell Naturelle HFE 46 or HFE 68
14.	Power extractor	38.	Kit for alternative steels, each
15.	Readiness for Power Extractor	39.	First service kit for DX800
16.	Horizontal drilling kit including hose reel	40.	Special tools for HL/HF810T, field kit
17.	Thread greasing	41.	Special tools for HL/HF810T, complete
18.	1. Thread greasing with 5 gallon bucket	42.	Extra manuals
19.	Anti-freeze system for air lines	43.	Security+ Silver, Gold or Platinum
20.	Flushing control automatics	44.	SanRemo (Silver, Gold or Platinum)
21.	Shut down of suction for water holes	45.	Winch with full radio remote for drilling, tramming boom and rod handling control
22.	Water injection system	46.	Full radio remote control for drilling tramming boom and rod handling control
23.	Guides for grousers	47.	LED lights not with laser
24.	Dustmizer		

COVERAGE AREA



TRAMMING AND TRANSPORT DIMENSIONS



Weight (without options)	15 600 kg
Width	2.45 m
Height	3.6 m / 3.2 m
Total length	7.2 m / 10.7 m

Sandvik Mining and Construction reserves the right to change this specification without further notice.

Sandvik Mining and Construction Oy
P.O.Box 100, FIN-33311 Tampere, Finland
Tel. +358 205 44 121, Telefax +358 205 44 4771
www.sandvik.com

