

Ranger DX500 T3 SURFACE DRILLS

TECHNICAL SPECIFICATION

Ranger DX500 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 Ranger DX500 are road cutting, pipe-line drilling and foundation drilling, as well as production drilling in medium size quarries. Therefore Ranger DX500 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:	51- 89 mm (2"– 3½")
Rock tools:	32, 38 or 45 mm (1¼", 1½", and 1¾")
Rock Drill	15,5kW
Engine output:	168 kW
Flushing air:	6,2 m3/min, up to 10 bar
Production capacity:	2200 m3/8h
Total weight :	15 200 kg



Rock drill	HL 510	Engine type	Caterpillar C 7.1 (TIER 3)
Rock tools	32,38,45 mm	Max. tilt angles	+/- 45°
Operating pressure	80-170 bar	Number of cylinders	6
Percussion rate	60 Hz	Engine output	168 kW / 1 800 rpm
Percussion output power	15.5 kW	Transmission type	Gear box
Maximum rotation torque	680 Nm	Screw compressor type	Enduro 12
Shank lubrication	Air / oil mist	Air filters	2 pcs., with ejector and safety
Flushing	Air	Fuel tank	element 380 l
Weight	130 kg	- Tuei tarik	3601
		HYDRAULIC SYSTEM	
FEED	OF 14FII	Number of gear pumps	4 pcs. for dust collector and
Feed type	CF 145H	Number of piston pumps	cooling 2pcs. for drilling, tramming,
Total length	7 700 mm		boom and rodhandling
Rock drill travel	5 020 mm	Filtration rate	12 micron abs., return 25 micron, pressure
Max. length of starter rod	5 485 mm (18')	Cooling capacity	up to +50°C ambient
Feed extension travel	1350 mm	Hydraulic oil tank	2001
Feed/pull out force	20 kN	Shank lubrication device	SLU 14-1
Feed swing	-56°/+52° (-20°/+94°)		
Feed tilt	125°		
		CONTROL SYSTEM	
		Control system type	Hydraulic pilot control and relationships and relationships and relationships are supplied to the supplied to
		Tramming/boom/ drilling control	Pilot/direct/ pilot controlled
ROD CHANGER		User interface	Proportional hydraulic joysticks
Rod changer type	RH 714	Drilling control system type	and pressure gauges Rock Pilot+
Storage capacity	6+1 rods (45 mm)	Antijamming system	For rotation standard and
Rod length	3050, 3660, 4265 mm (10', 12',		flushing optional
Max. hole depth	14') 29 m (7x14')*	Collaring control	Stepless
	20(/////	Voltage	24 VDC
ВООМ		DUST COLLECTOR	
Boom type	DB 800H, articulated	Dust collector type	DC 810H
Boom type Boom reach	4,8 m		23 m3/min at 1 000 mm
Boom type Boom reach Drilling coverage	4,8 m 17.6 m² (26.4 m²)	Dust collector type Capacity/vacuum	
Boom type Boom reach Drilling coverage Collaring height	4,8 m 17.6 m² (26.4 m²) +2.5 m/-4.5 m	Dust collector type	23 m3/min at 1 000 mm vacuum H2O
Boom type Boom reach Drilling coverage	4,8 m 17.6 m² (26.4 m²)	Dust collector type Capacity/vacuum Filter elements/material	23 m3/min at 1 000 mm vacuum H2O 13 pcs/fiber
Boom type Boom reach Drilling coverage Collaring height	4,8 m 17.6 m² (26.4 m²) +2.5 m/-4.5 m	Dust collector type Capacity/vacuum Filter elements/material Total filter surface	23 m3/min at 1 000 mm vacuum H2O 13 pcs/fiber 10.4 m2 Standard
Boom type Boom reach Drilling coverage Collaring height	4,8 m 17.6 m² (26.4 m²) +2.5 m/-4.5 m	Dust collector type Capacity/vacuum Filter elements/material Total filter surface Primary cyclone	23 m3/min at 1 000 mm vacuum H2O 13 pcs/fiber 10.4 m2
Boom type Boom reach Drilling coverage Collaring height Horizontal holes CABIN	4,8 m 17.6 m² (26.4 m²) +2.5 m/-4.5 m	Dust collector type Capacity/vacuum Filter elements/material Total filter surface Primary cyclone Movable suction head	23 m3/min at 1 000 mm vacuum H2O 13 pcs/fiber 10.4 m2 Standard
Boom type Boom reach Drilling coverage Collaring height Horizontal holes	4,8 m 17.6 m² (26.4 m²) +2.5 m/-4.5 m To the right	Dust collector type Capacity/vacuum Filter elements/material Total filter surface Primary cyclone Movable suction head CARRIER	23 m3/min at 1 000 mm vacuum H2O 13 pcs/fiber 10.4 m2 Standard Standard
Boom type Boom reach Drilling coverage Collaring height Horizontal holes CABIN Cabin type Certificates	4,8 m 17.6 m² (26.4 m²) +2.5 m/-4.5 m To the right Ergo	Dust collector type Capacity/vacuum Filter elements/material Total filter surface Primary cyclone Movable suction head CARRIER Track type	23 m3/min at 1 000 mm vacuum H2O 13 pcs/fiber 10.4 m2 Standard Standard
Boom type Boom reach Drilling coverage Collaring height Horizontal holes CABIN Cabin type Certificates Noise level in the cabin	4,8 m 17.6 m² (26.4 m²) +2.5 m/-4.5 m To the right Ergo F.O.P.S. and R.O.P.S.	Dust collector type Capacity/vacuum Filter elements/material Total filter surface Primary cyclone Movable suction head CARRIER Track type Grouser plate width	23 m3/min at 1 000 mm vacuum H2O 13 pcs/fiber 10.4 m2 Standard Standard FL 6 310 mm
Boom type Boom reach Drilling coverage Collaring height Horizontal holes CABIN Cabin type Certificates Noise level in the cabin Air conditioning	4,8 m 17.6 m² (26.4 m²) +2.5 m/-4.5 m To the right Ergo F.O.P.S. and R.O.P.S. below 80 dB(A)	Dust collector type Capacity/vacuum Filter elements/material Total filter surface Primary cyclone Movable suction head CARRIER Track type Grouser plate width Ground contact length	23 m3/min at 1 000 mm vacuum H2O 13 pcs/fiber 10.4 m2 Standard Standard FL 6 310 mm 2 590 mm
Boom type Boom reach Drilling coverage Collaring height Horizontal holes CABIN Cabin type Certificates Noise level in the cabin Air conditioning Pressurization	4,8 m 17.6 m² (26.4 m²) +2.5 m/-4.5 m To the right Ergo F.O.P.S. and R.O.P.S. below 80 dB(A) Standard *	Dust collector type Capacity/vacuum Filter elements/material Total filter surface Primary cyclone Movable suction head CARRIER Track type Grouser plate width Ground contact length Ground pressure	23 m3/min at 1 000 mm vacuum H2O 13 pcs/fiber 10.4 m2 Standard Standard FL 6 310 mm 2 590 mm 0.81 kg/cm2
Boom type Boom reach Drilling coverage Collaring height Horizontal holes CABIN Cabin type Certificates Noise level in the cabin Air conditioning Pressurization Seat	4,8 m 17.6 m² (26.4 m²) +2.5 m/-4.5 m To the right Ergo F.O.P.S. and R.O.P.S. below 80 dB(A) Standard * Standard	Dust collector type Capacity/vacuum Filter elements/material Total filter surface Primary cyclone Movable suction head CARRIER Track type Grouser plate width Ground contact length Ground pressure Ground clearance	23 m3/min at 1 000 mm vacuum H2O 13 pcs/fiber 10.4 m2 Standard Standard FL 6 310 mm 2 590 mm 0.81 kg/cm2 440 mm
Boom type Boom reach Drilling coverage Collaring height Horizontal holes CABIN Cabin type Certificates Noise level in the cabin Air conditioning Pressurization Seat Vibration dampening	4,8 m 17.6 m² (26.4 m²) +2.5 m/-4.5 m To the right Ergo F.O.P.S. and R.O.P.S. below 80 dB(A) Standard * Standard Multiposition Standard	Dust collector type Capacity/vacuum Filter elements/material Total filter surface Primary cyclone Movable suction head CARRIER Track type Grouser plate width Ground contact length Ground pressure Ground clearance Turnable superstructure	23 m3/min at 1 000 mm vacuum H2O 13 pcs/fiber 10.4 m2 Standard Standard FL 6 310 mm 2 590 mm 0.81 kg/cm2 440 mm 120° / 180°
Boom type Boom reach Drilling coverage Collaring height Horizontal holes CABIN Cabin type Certificates Noise level in the cabin Air conditioning Pressurization	4,8 m 17.6 m² (26.4 m²) +2.5 m/-4.5 m To the right Ergo F.O.P.S. and R.O.P.S. below 80 dB(A) Standard * Standard Multiposition	Dust collector type Capacity/vacuum Filter elements/material Total filter surface Primary cyclone Movable suction head CARRIER Track type Grouser plate width Ground contact length Ground pressure Ground clearance	23 m3/min at 1 000 mm vacuum H2O 13 pcs/fiber 10.4 m2 Standard Standard FL 6 310 mm 2 590 mm 0.81 kg/cm2 440 mm

HFC-134a

STANDARD COMPONENTS

- 1 pc Rock drill HL 510, hydraulic OMSU200 rotation motor
- 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, 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 Hydraulic system load sensing and open center
- 1 pc Control system Rock Pilot+
- 1 pc Operator's cabin F.O.P.S. and R.O.P.S. with AC
- 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 Back up alarm
- 1 Set Manuals, paper copy
- 1 Set Manuals, CD rom
- Eu-safety devices

THE JAWS FOR DRILL STEELS

DRILL STEEL TYPE	DRILL STEEL DIAMETER	RECOMMENDED HOLE DIAMETER
Extension rods	32 mm 1 ¼"	45 - 57 mm 1 ¾" - 2 ¼"
MF-rods	32 mm 1 ¼"	45 - 57 mm 1 ¾" - 2 ¼"
Extension rods	38 mm 1 ½"	64 - 70 mm 2 ½" - 2 ¾"
MF-rods	38 mm 1 ½"	64 - 70 mm 2 ½" - 2 ¾"
MF-rods	45 mm 1 ¾"	76 - 89 mm 3" - 3 ½"
Extension rods	45 mm 1 ¾"	76 - 89 mm 3" - 3 ½"

SELECTION OF OPTIONS	
Alternative seat ISRI 6000	
Radio with CD-MP3 player	
Reversing camera	
Vacuum cleaner for cabin	
GPS aiming device for TIM and TIMi inclined holes	
TIM 5200 for vertical holes	
TIM 5300 for vertical holes and depth measuring	
TIM 6300 for inclined holes and depth measuring	
TIM 6500 for inclined holes, depth measuring and laser level	
TIM3D hole navigation system	
Horizontal drilling kit including hose reel	

Kit for alternative steels, each

Thread greasing

Thread greasing with 5 gallon bucket

Anti-freeze system for air lines

Biogradeable hydraulic oil

Central lubrication system Sandvik

Electric fuel filling pump

Guides for grousers, long

Hydraulic rear ground support

Hydraulic winch with radio remote and cable tightness

Hydraulic winch with full radio drilling, tramming boom and rod handling

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

Three bar grouser plates

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

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

Extra manuals, price will be added according to pricing sheet

First service kit for DX500

Special tools for HL 510, field kit

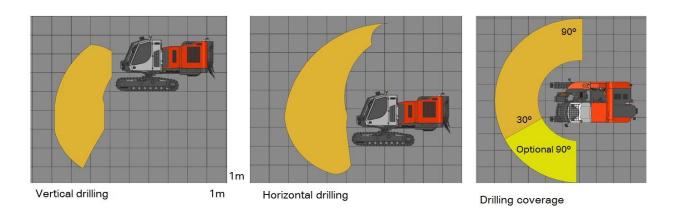
Special tools for HL 510, complete

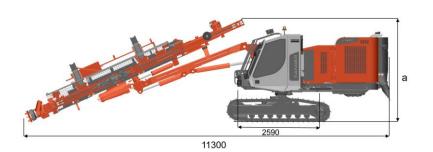
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COVERAGE AREA AND DIMENSIONS







DIMENSIONS

Weight	15 200 kg
Width	2.45 m
Height	a/b, 3.2 m/3.6 m
Total length	8.4 m / 11.3 m

Sandvik Mining and Rock Technology reserves the right to make changes to the information on this data sheet without prior notification to users. Please contact a Sandvik representative for clarification on specifications and options.

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