

Ranger DQ500 T4 SURFACE DRILLS

TECHNICAL SPECIFICATION

Ranger DQ500 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.

Ranger Ranger DQ500 is meant for pilot hole drilling in dimensional stone quarries.

KEY FEATURES

Hole diameter:	45- 89 mm (1¾"- 3½")
Rock tools:	32, 38 or 45 mm (11/4", 11/2", and 13/4")rods
Rock Drill	15,5kW
Engine output:	168 kW
Flushing air:	6,2 m3/min, up to 10 bar
Production capacity:	2000 m3/8h
Total weight :	15 400 kg



HYDRAULIC ROCK DRILL	III 540	POWERPACK	0 1 11 0 7 1 7 1 7 1 7
Rock drill	HL 510	Engine type	Caterpillar C 7.1 (TIER 4F)
Rock tools	32,38,45 mm	DEF tank	AdBlue, 24 I
Operating pressure	80-170 bar	Max. tilt angles	+/- 45°
Percussion rate	60 Hz	Number of cylinders	6
Percussion output power	15.5 kW	Engine output	168 kW / 1 800 rpm
Maximum rotation torque	530 Nm / 150 bar	Transmission type	Gear box
Shank lubrication	Air / oil mist	Screw compressor type	Enduro 12
Flushing	Air	Air filters	2 pcs., with ejector and safety
Weight	130 kg	Fuel tank	element 380 l
FEED			
Feed type	CF 145H	HYDRAULIC SYSTEM	
Total length	6 525 mm	Number of gear pumps	4 pcs. for dust collector and cooling
Rock drill travel	4 200 mm	Number of piston pumps	2pcs. for drilling, tramming,
Max. length of starter rod	4 305 mm	Filtration rate	boom and rodhandling 12 micron abs., return 25
Hose reel	Standard	Filtiation rate	micron, pressure
Feed extension travel	1350 mm	Cooling capacity	up to +50°C ambient
Feed/pull out force	20 kN	Hydraulic oil tank	200
Feed swing	-56°/+52° (-20°/+94°)	Shank lubrication device	SLU 14-1
Feed tilt	125°		
Minimum height for horizontal	180 mm (7")	CONTROL SYSTEM	
holes	180 (1111) (7)	CONTROL SYSTEM Control system type	Hydraulic pilot control and relay
		Control system type	logic
		Tramming/boom/ drilling control	Pilot/direct/ pilot controlled
		User interface	Proportional hydraulic joysticks and pressure gauges
ROD CHANGER		Drilling control system type	Rock Pilot+
Rod changer type	RH 714	Antijamming system	For rotation standard and
Storage capacity	6+1 rods (45 mm)	Collaring control	flushing optional Stepless
Rod length	3050, 3660 (10', 12')	Voltage	24 VDC
Max. hole depth	25 m	voitage	24 VDC
		DUST COLLECTOR	D0.040U
BOOM	DD 000 CM with well access	Dust collector type	DC 810H
Boom type	DB 800 SW with roll-over	Capacity/vacuum	23 m3/min at 1 000 mm vacuum H2O
Boom reach	4,8 m	Filter elements/material	13 pcs/fiber
Drilling coverage	26.4 m²	Total filter surface	10.4 m2
Collaring height	+2.1 m/-5.0 m	Primary cyclone	Standard
Horizontal holes	To any direction	Movable suction head	Standard
CABIN			
Cabin type	Ergo	CARRIER	
Certificates	F.O.P.S. and R.O.P.S.	Track type	FL 6
Noise level in the cabin	below 80 dB(A)	Grouser plate width	310 mm
Air conditioning	Standard *	Ground contact length	2 590 mm
Pressurization	Standard	Ground pressure	0.79 kg/cm2
Seat	Multiposition	Ground clearance	440 mm
Ocut	·	Turnable superstructure	120° / 180°
Vibration damponing	Standard		
Vibration dampening	Standard Safety laminated tinted with	Oscillation angles	+/- 10°
Vibration dampening Windows	Standard Safety laminated, tinted, with wipers	Oscillation angles Tramming force	+/- 10° 110 Kn

* Air condition system contains fluorinated greenhouse gases

HFC-134a

STANDARD COMPONENTS

1 pc Rock drill HL 510, hydraulic, w. OMSU200		
1 pc Chain feed CF 145H x 12 with two ground supports and		
movable drill steel support		
1 pc Rod handler RH 714 incl. 1 set of jaws		
1 pc Hose reel		
1 pc Boom DB 800 SW, articulated with roll-over		
1 pc Carrier track mounted, turnable superstructure		
1 pc Turnable superstructure 180 deg.		
1 pc Power pack diesel driven, hydraulic pumps and on-board		

compressor

1 pc Hydraulic system load sensing and open center

1 pc Control system Rockpilot + Full radio control for drilling, boom, and rodhandling movements

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

9 pcs Working lights

1 pc Gaugeset for accumulator checking

1 pc Backup alarm

1 Set Manuals, paper copy 1 Set Manuals, CD rom

EU-safety devices, EN16228

THE JAWS FOR DRILL STEELS

DRILL STEEL TYPE	DRILL STEEL DIAMETER	RECOMMENDED HOLE DIAMETER
	DIAMETER	HOLL DIAWLILK
Extension rods	32 mm 1 ¼"	45 - 57 mm 1 ¾" - 2 ¼"
MF-rods	32 mm 1 1⁄4"	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"
Extension rods	45 mm 1 ¾"	76 - 89 mm 3" - 3 ½"
MF-rods	45 mm 1 ¾"	76 - 89 mm 3" - 3 ½"

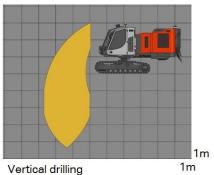
SELECTION OF OPTIONS
Alternative seat ISRI 6000
Radio with CD-MP3 player
Reversing camera
Vacuum cleaner for cabin
TIM 5600 for vertical and horizontal holes and depth measuring
Kit for alternative steels, each
Thread greasing
Thread greasing with 5 gallon bucket
Anti- freeze system for air lines
Biogradeable hydraulic oil
Central lubrication system Sandvik
Electric fuel filling pump
Guides for grousers, long
Hydraulic rear ground support
Three bar grouser plates
Towing hook
Winch with radioremote control and cable tightness automatics
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
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

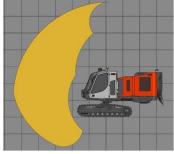
Special tools for HL 510, field kit Special tools for HL 510, complete

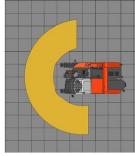
Service agreement - select level from extra item SanRemo - select level from extra item



COVERAGE AREA AND DIMENSIONS

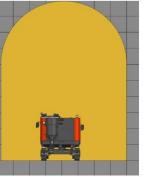


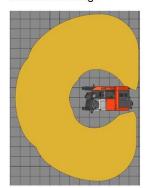




Horizontal drilling

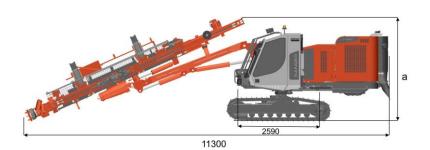
Vertical coverage

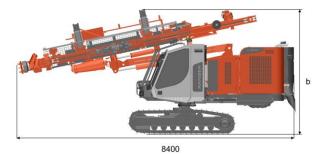




Tunnel bolting reach

Horizontal coverage





DIMENSIONS

Weight	15 400 kg
Width	2.5 m
Height	a/b, 3.2 m/3.6 m
With safety cage	3.2 m/3.8 m
Total length	8.4 m / 11.3 m

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