SANDVIK

Ranger DX600 T3 SURFACE DRILLS

TECHNICAL SPECIFICATION

Ranger DX600 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 DX600 are road cutting, pipeline drilling and foundation drilling, as well as production drilling in medium size quarries. Therefore Ranger DX600 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:	64- 102 mm (2½"– 4")	
Rock tools:	38, 45 or 51 mm (1½", 1¾" and 2")	
Rock Drill	17,5kW	
Engine output:	168 kW	
Flushing air:	6,2 m3/min, up to 10 bar	
Production capacity:	2200 m3/8h	
Total weight :	15 200 kg	



HYDRAULIC ROCK DRILL

Rock drill	HL 650
Rock tools	38,45,51 mm
Operating pressure	100-170 bar
Percussion rate	55 Hz
Percussion output power	17.5 kW
Maximum rotation torque	1 325
Shank lubrication	Air / oil mist
Flushing	Air
Weight	245 kg

FEED

Feed type	CF 145H	
Total length	7 700 mm	
Rock drill travel	5 020 mm without hose reel	
Max. length of starter rod	5 485 mm (18') without hose reel	
Hose reel	Optional	
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	29 m (7x14')*	

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	

CABIN Cabin type Ergo F.O.P.S. and R.O.P.S. Certificates below 80 dB(A) Noise level in the cabin Air conditioning Standard * Pressurization Standard Multiposition Seat Vibration dampening Standard Safety laminated, tinted, with Windows wipers Power take-off 12 VDC

* Air condition system contains fluorinated greenhouse gases HFC-134a

POWERPACK

Engine type	Caterpillar C 7.1 (TIER 3)	
Max. tilt angles	+/- 45°	
Number of cylinders	6	
Engine output	168 kW / 1 800 rpm	
Transmission type	Gear box	
Screw compressor type	Enduro 12	
Air filters	2 pcs., with ejector and safety element	
Fuel tank	380	

HYDRAULIC SYSTEM

Number of gear pumps	4 pcs. for dust collector and
	cooling
Number of piston pumps	2pcs. 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	2001
	2001
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	Proportional hydraulic joysticks 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 650, 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, articulated	
1 pc Carrier track mounted, turnable superstructure	
1 pc Power pack diesel driven, hydraulic pumps and on-board compr with twin pressure control	essor
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, USB memory	
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THE JAWS FOR DRILL STEELS

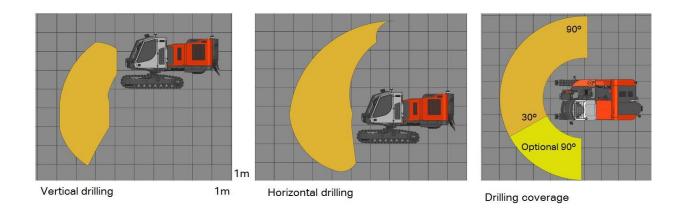
Eu-safety devices

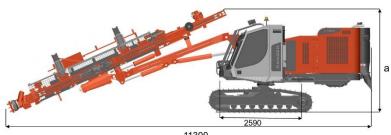
DRILL STEEL TYPE	DRILL STEEL	RECOMMENDED
	DIAMETER	HOLE DIAMETER
Extension rods	38 mm 1 ½"	64 - 70 mm 2 ½" - 2
		3⁄4"
MF-rods	38 mm 1 ½"	64 - 70 mm 2 ½" - 2
		3⁄4"
Extension rods	45 mm 1 ¾"	76 - 89 mm 3" - 3 ½"
MF-rods	45 mm 1 ¾"	76 - 89 mm 3" - 3 ½"
MF-rods	51 mm 2"	89 - 102 mm 3 ½" - 4"
Extension rods	51 mm 2"	89 - 102 mm 3 ½" - 4"

	ELECTION OF OPTIONS Iternative seat ISRI 6000
R	adio with CD-MP3 player
	eversing camera
	acuum cleaner for cabin
D	riller's Notes - MWD Data Collection for TIM3D
D	riller's Office planning software (one-year license)
G	PS aiming device for TIM and TIMi inclined holes
S	pirit level angle indicator
TI	IM 5200 for vertical holes
ΤI	IM 5300 for vertical holes and depth measuring
TI	IM 6300 for inclined holes and depth measuring
TI	IM 6300 with open interface
TI	IM 6500 for inclined holes, depth measuring and laser level
TI	IM 6700 (TIM6500 with open interface)
TI	IM3D drill navigation system (Leica)
Н	orizontal drilling kit
El	N 16228 Safety cage for feed, long, horizontal drilling allowed
EI	N16228 Safety cage, short
	ong feed 6069 mm 20', no rod changer
	ose reel (not with 14' rods)
Ki	it for alternative steels, each
	hread greasing
-	hread greasing with 5 gallon bucket
	ower extractor
	eadyness for Power Extractor
	amp up option RD520 drifter, not with silencer option
	nti- freeze system for air lines iogradeable hydraulic oil, not with CSL
	entral lubrication system Sandvik
	lectric fuel filling pump
	ast fill connection for fuel Wiggins
	uides for grousers, long
	ydraulic rear ground support
	ydraulic winch with radio remote and cable tightness automatics
	ydraulic winch with full radio drilling, tramming boom and rod
	andling
	emote Screen Interface for TIMi and TIM3D
	ed lights, 6 pcs
R	adio remote control for rear ground support, tramming and oscillatio
Fι	ull radio remote control for drilling, tramming, boom and rod handlin
T	hree bar grouser plates
Т	owing hook
	urnable superstructure 180 deg.
	enon lights, 6 pcs
	uel powered heater for engine and cabin
	uel powered heater for engine, cabin and water tank
R	eadyness for fuel powered heater
	ustmizer (engine heater option needed below freezing point)
	lushing control automatics
	ampling device
	hut down of suction for water holes
	/ater injection system
	rinder, Dynaset
-	ME mini junior Grinder
	irst service kit for Ranger DX600
	pecial tools for RD520, field kit
	pecial tools for RD520, complete set
- 51	pecial tools for HL 710, HL650, field kit pecial tools for HL 710, HL650, complete



COVERAGE AREA AND DIMENSIONS





11300

DIMENSIONS

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Weight	15 200 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

Sandvik Mining and Rock Solutions 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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