

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, pipe-line 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

2200 m3/8h

15 200 kg

Production capacity:

Total weight:





HYDRAULIC ROCK DRILL Rock drill	HL 650	POWERPACK Engine type	Caterpillar C 7.1 (TIER 3)
Rock tools	38,45,51 mm	Max. tilt angles	+/- 45°
Operating pressure	100-170 bar	Number of cylinders	6
Percussion rate	55 Hz	Engine output	168 kW / 1 800 rpm
Percussion output power	17.5 kW	Transmission type	Gear box
Maximum rotation torque	1 325	Screw compressor type	Enduro 12
Shank lubrication	Air / oil mist	Air filters	2 pcs., with ejector and safety
Flushing	Air	Fuel tank	element 380 I
Weight	245 kg		3801
FEED		HYDRAULIC SYSTEM	
Feed type	CF 145H	Number of gear pumps	4 pcs. for dust collector and cooling
Total length	7 700 mm	Number of piston pumps	2pcs. for drilling, tramming,
Rock drill travel	5 020 mm without hose reel		boom and rodhandling
Max. length of starter rod	5 485 mm (18') without hose	Filtration rate	12 micron abs., return 25 micron, pressure
	reel	Cooling capacity	up to +50°C ambient
Hose reel	Optional	Hydraulic oil tank	200
Feed extension travel	1350 mm	Shank lubrication device	SLU 14-1
Feed/pull out force	20 kN	-	
Feed swing	-56°/+52° (-20°/+94°)		
Feed tilt	125°	CONTROL SYSTEM Control system type	Hydraulic pilot control and relay
		Control system type	logic
ROD CHANGER		Tramming/boom/ drilling	Pilot/direct/ pilot controlled
Rod changer type	RH 714	control User interface	Proportional hydraulic joysticks
Storage capacity	6+1 rods	oser interface	and pressure gauges
Rod length	3050, 3660, 4265 mm (10',	Drilling control system type	Rock Pilot+
Max. hole depth	12', 14') 29 m (7x14')*	Antijamming system	For rotation standard and
max, note depth	27 III (7X21)	Collaring control	flushing optional Stepless
		Voltage	24 VDC
ВООМ			•
Boom type	DB 800H, articulated	DUST COLLECTOR	
Boom reach	4,8 m	Dust collector type	DC 810H
Drilling coverage	17.6 m ² (26.4 m ²)	Capacity/vacuum	23 m3/min at 1 000 mm
Collaring height	+2.5 m/-4.5 m		vacuum H2O
Horizontal holes	To the right	Filter elements/material	13 pcs/fiber
		Total filter surface	10.4 m2
CABIN		Primary cyclone	Standard
Cabin type	Ergo	Movable suction head	Standard
Certificates	F.O.P.S. and R.O.P.S.		
Noise level in the cabin	below 80 dB(A)	CARRIER	
Air conditioning	Standard *	Track type	FL 6
Pressurization	Standard	Grouser plate width	310 mm
Seat	Multiposition	Ground contact length	2 590 mm
Vibration dampening	Standard	Ground pressure	0.81 kg/cm2
Windows	Safety laminated, tinted, with	Ground clearance	440 mm
Dowerteks off	wipers	Turnable superstructure	120° / 180°
Power take-off	12 VDC	Oscillation angles	+/- 10°
	fluorinated greenhouse gases	Tramming force	121 Kn
IFC-134a		rramming force	121 KII



STANDARD COMPONENTS

1 pc Rock drill HL 650, hydraulic	
-----------------------------------	--

1 pc	Chain feed C	F 145H	l 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

Guides for grousers

- 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
- $1\ \mathrm{pc}\ \mathrm{Dust}\ \mathrm{collection}\ \mathrm{system}\ \mathrm{DC}\ 810\ \mathrm{H},\ \mathrm{hydraulic},\ \mathrm{Primary}\ \mathrm{separator}$
- 9 pcs Working lights
- 1 pc Gauge set for accumulator pressure checking
- 1 pc Back up alarm
- 1 pc Operator's manual (paper copy)
- Eu-safety devices

THE JAWS FOR DRILL STEELS

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

SELECTION OF OPTIONS

Alternative seat	ISRI	6000

Radio with CD-MP3 player

Reversing camera

Vacuum cleaner for cabin

Driller's Notes - MWD Data Collection for TIM3D

Driller's Office planning software (one-year license)

Knowledge Box for TIM3D or readiness (4G/LTE and WiFi for My Sandvik)

Knowledge Box for TIM5300-6700 (4G/LTE for My Sandvik, no WiFi)

- + My Sandvik Insight, 1-yr license, BG01722724
- + My Sandvik Wireless Drill Plan Transfer 1-yr license, BG01765055 (Productivity)
- GPS aiming device for TIM and TIMi inclined holes

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 with open interface

TIM 6500 for inclined holes, depth measuring and laser level

TIM 6700 (TIM6500 with open interface)

TIMi for inclined holes with touchscreen and TIM3D readiness

TIM3D drill navigation system (Trimble)

TIM3D drill navigation system (Leica)

Horizontal drilling kit

EN 16228 Safety cage for feed, long, horizontal drilling allowed

EN16228 Safety cage, short

Long feed 6069 mm 20', no rod changer

Hose reel (not with 14' rods)

Thread greasing

Thread greasing with 5 gallon bucket

Power extractor

Readyness for Power Extractor

Ramp up option RD520 drifter, not with silencer option

Anti- freeze system for air lines

Biogradeable hydraulic oil, not with CSL

Central lubrication system Sandvik

Central lubrication system Lincoln Electric fuel filling pump____

Fast fill connection for fuel Wiggins

Hydraulic rear ground support

Hydraulic winch with radio remote and cable tightness automatics

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

Remote Screen Interface for TIMi and TIM3D

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.

Fuel powered heater for engine and cabin

Fuel powered heater for engine, cabin and water tank

Readyness for fuel powered heater

Dustmizer, water injection option included (engine heater option needed below freezing point)

Flushing control automatics

Sampling device

Shut down of suction for water holes

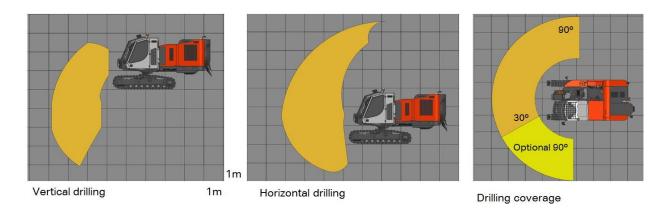
Water injection system

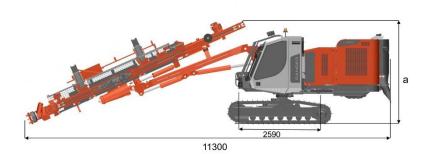
Grinder, Dynaset

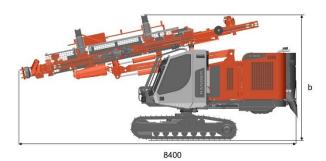
CME mini junior Grinder



Coverage area and dimensions







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.