## SANDVIK

# Leopard DI550 S5 SURFACE DRILLS

## **TECHNICAL SPECIFICATION**

Leopard DI550 is a diesel powered, self-contained crawler mounted drilling rig designed for DTH blasthole drilling in the mining, quarry and construction industries. The drill is equipped with an operator's cabin, fixed boom, dry dust collector and drill pipe changer. The design and the lay-out are according to latest state-of-art.

## **KEY FEATURES**

Hole diameter:	90 - 165 mm 3½" – 6 ½"
Drill pipes:	76, 89, 102 and 114 mm 3", 3½", 4" and 4½"
DTH-Hammer	4", 5" and 6"
Engine output:	328 kW (TIER 4F/EU Stage V))
Air delivery	24,4 m3/min at 24 bar 862 cfm at 348 psi
Production capacity:	1,85 Mt/a, one shift
Total weight :	24 050 kg



ROTARY HEAD	
Rotary head	HTRH6
Drill pipes	76, 89, 102, 114 mm 3", 3½", 4", 4½"
Operating pressure	180 bar
Rotation speed	080 rpm
Maximum rotation torque	4300 Nm
Hammer lubrication	Air / oil mist
Flushing	Air
Weight	478 kg

#### FEED

TEED	
Feed type	Chain feed
Total length	10050 mm
Rotary head travel	5990 mm
Length of tubes	5000 mm
Hose reel	Standard
Feed extension travel	1200 mm
Feed/pull out force	32 kN
Feed swing	-30/+95°
Feed tilt	-35/+93°

#### PIPE CHANGER

Pipe changer type	Carousel
Storage capacity	7+1 (76 to 102 mm pipes) 5+1 (114 mm drill pipe)
Pipe length	5000 mm
Max. hole depth	40 m *

#### BOOM

Boom type	Fixed
Boom extension	500 mm (Optional)
Boom reach	3,6 m
Boom swing	0/+20°
Collaring height	+ 0,5 / -3,8 m
Horizontal holes	To the right

## CABIN

Cabin type	HVC550
Certificates	FOPS and ROPS
Noise level in the cabin	<80 dB (A)
Air conditioning	Standard *
Pressurization	Standard
Seat	Ergonomic, adjustable
Vibration dampening	Standard
Windows	Safety laminated, tinted

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

#### POWERPACK

Engine type	Caterpillar C13 (TIER 4F/EU Stage V))
DEF tank	AdBlue 42 I
Number of cylinders	6
Engine output	328 kW / 1800 rpm
Transmission type	Direct
Screw compressor type	GHH CF 1000H
Air filters	2 pcs, dry type
Fuel tank	930 litres

#### HYDRAULIC SYSTEM

Filtration rate	10 micron
Cooling capacity	Up to +55°C ambient
Hydraulic oil tank	3501
Shank lubrication device	SLU 50

#### CONTROL SYSTEM

001111020101211	
Control system type	PLC controlled proportional electro- hydraulics
Tramming/boom/ drilling control	PLC controlled
User interface	Electro proportional joysticks and screen
Antijamming system	Standard
Collaring control	Automatic
Voltage	24 VDC

## DUST COLLECTOR

DUST COLLECTOR	
Dust collector type	X-150
Capacity/vacuum	51 m3/min at 500 mm WG
Filter elements/material	4 pcs / fiber
Total filter surface	16 m2
Primary cyclone	Standard
Movable suction head	Standard

#### CARRIER

FL 6
400 mm
2450 mm
1.21.3 kg/cm2
360 mm
+/- 10°
140 kN
1.6 / 3.2 km/h

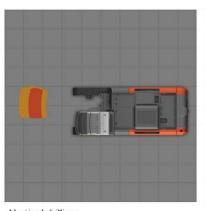
STANDARD COMPONENTS
Rotary head HTRH6.0
Chain feed, with hose reel
Safety cage for feed
Pipe changer, carousel type
Fixed boom
Cabin HVC550
Carrier, track mounted
Powerpack, diesel driven, hydraulic pumps and onboard
compressor
Dust collector X-150
Hydraulic system, load sensing
Control system
Working lights, 11 pcs, 3 pcs in engine compartment
1 Set Manuals, paper copy
1 Set Manuals, USB memory

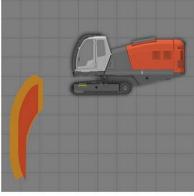
THE JAWS FOR DRILL STEELS		
DRILL STEEL TYPE	DRILL STEEL	RECOMMENDED
	DIAMETER	HOLE DIAMETER
Pipes	76/89 mm	89 - 127 mm 3½" - 5"
Pipes	102/114mm	114 - 165 mm 4½" - 6½"

SELE	CTION OF OPTIONS
Altern	native seat with 3-point seat belt and air cushioning
	with CD-MP3 player
	rsing camera
	shield for lights and lower part of the window
	blinds for cabin windows
	um cleaner for cabin
	's Notes - MWD Data Collection for TIM3D
	's Office planning software (one-year license)
	iming device for TIM and TIMi inclined holes
	200 for vertical holes
	300 for vertical holes and depth measuring
	600 for vertical and horizontal holes and depth measuring
	300 for inclined holes and depth measuring
	500 for inclined holes, depth measuring and laser level
	D drill navigation system (Trimble)
	D drill navigation system (Trinible) D drill navigation system (Leica)
	nammer service tool (requires radio remote control option)
	ontal drilling kit
	r alternative pipes, each
	vinch (requires radio remote control option)
	d greasing
	copic boom
	reeze system for thread greasing
	al lubrication system Sandvik
	ic fuel filling pump
	ic hydraulic oil filling pump
	ic water filling pump
	ill connection for engine coolant, hydraulic and engine oils
	ill connection for fuel Wiggins
	s for grousers
	held led working light with accumulator
	ulic rear ground support
	ulic winch (requires radio remote control option)
	al compressor oil filling pump
	ure washer (with water injection option only)
	remote control for carrier and pipe winch and hammer
	ce tool
_	bar grouser plates
	ng hook
	n lights, 11 pcs
	gagement clutch for compressor, manual
	starting aid for engine without ether bottle
	oowered engine heater, extra large
	oowered engine heater, large
	start device (high current el. socket)
	ling device
	r injection system
	bit basket
	manuals, price will be added according to pricing sheet
	service kit for DI550
My Sa	andvik and SanRemo - select level from extra item

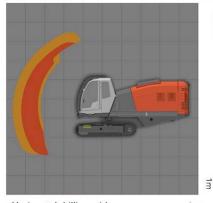


## COVERAGE AREA AND DIMENSIONS









Horizontal drilling, sideways

∃ 1m

Vertical drilling

Fix boom



Zoom boom



#### DIMENSIONS

Weight	24 050 kg
Width	2.49 m
Height	3.37 m/3.29 m
Total length	c/d, 12.6 m/12.1 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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Fix boom

