



# Leopard DI550 T3 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 3)
Air delivery	24,4 m3/min at 24 bar 862 cfm at 348 psi
Production capacity:	1,85 Mt/a, one shift
Total weight :	23 700 kg



ROTARY HEAD	
Rotary head	HTRH6
Drill pipes	76 / 89 / 102 / 114 mm 3" / 3½" / 4" / 4½"
Operating pressure	180 bar
Rotation speed	0...80 rpm
Maximum rotation torque	4300 Nm
Hammer lubrication	Air / oil mist
Flushing	Air
Weight	478 kg

FEED	
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	
Pipechanger 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 3)
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	350 l
Shank lubrication device	SLU 50

CONTROL SYSTEM	
Control system type	PLC controlled electro-proportional 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 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	
Track type	FL 6
Grouser plate width	400 mm
Ground contact length	2450 mm
Ground pressure	1.2...1.3 kg/cm2
Ground clearance	360 mm
Oscillation angles	+/- 10°
Tramming force	140 kN
Max. tramming speed	1.6 / 3.2 km/h

## STANDARD COMPONENTS

Rotary head HTRH6

Chain 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

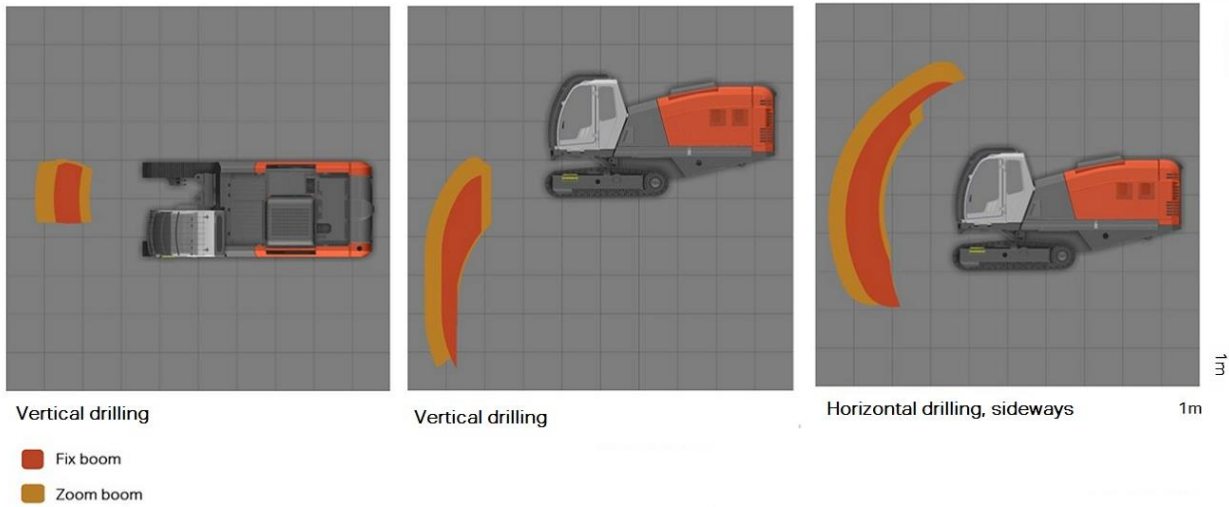
1 Set Manuals, CD rom

## SELECTION OF OPTIONS

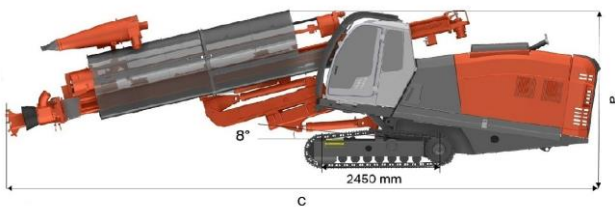
### THE JAWS FOR DRILL STEELS

DRILL STEEL TYPE	DRILL STEEL DIAMETER	RECOMMENDED HOLE DIAMETER
Pipes	76/89 mm	89 - 127 mm 3½" - 5"
Pipes	102/114mm	114 - 165 mm 4½" - 6 ½"

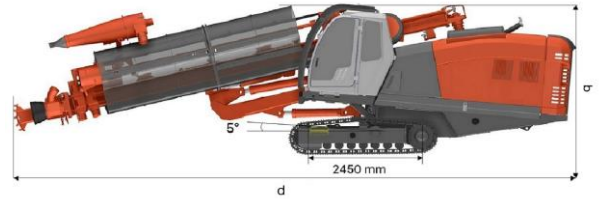
## COVERAGE AREA AND DIMENSIONS



Zoom boom

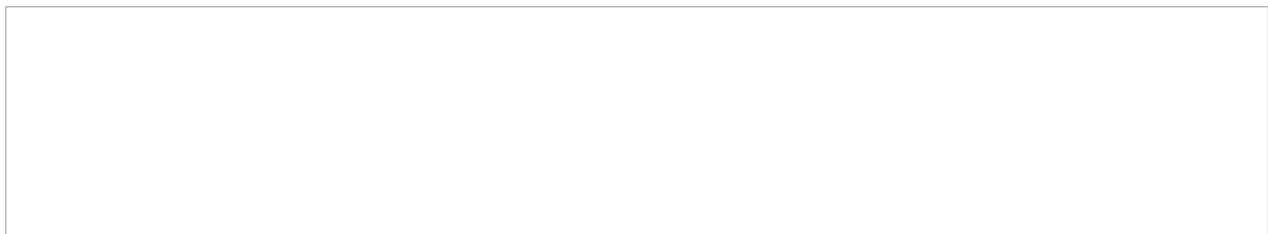


Fix boom



### DIMENSIONS

Weight	23 700 kg
Width	2.49 m
Height	a/b, 3.37/3.29 m
Total length	c/d, 12.6/12.1 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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