

# Leopard DI450 T4 SURFACE DRILLS

**TECHNICAL SPECIFICATION** 

Leopard DI450 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 - 130 mm 3½" – 5 1/8"
Drill pipes:	76, 89 and 102 mm 3", 31/2" and 4"
DTH-Hammer	3", 4"
Engine output:	261 kW (Tier 4)
Air delivery	18 m3/min at 24 bar 636 cfm at 348 psi
Production capacity:	1,5 Mt/a, one shift
Total weight:	23 370 kg



ROTARY HEAD Rotary head HTRH6  Drill pipes 76 / 89 / 102 3" / 3½"  Operating pressure 180 bar  Rotation speed 080 rpm  Maximum rotation torque 4300 Nm  Hammer lubrication Air / oil mist  Flushing Air	
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Flushing Air	
9	
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 pip	oes)
Pipe length 5000 mm	

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

40 m \*

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

<sup>\*</sup> Air condition system contains fluorinated greenhouse gases HFC-134a

<b>POWERPACK</b>
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Max. hole depth

Engine type	Caterpillar C9.3 (Tier 4 final)	
DEF tank	AdBlue 47 I	
Number of cylinders	6	
Engine output	261 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	
Control system type	PLC controlled electro- proportional hydraulics
Tramming/boom/ drilling control	PLC controlled
User interface	Electro proportional joysticks

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Tramming/boom/ drilling	PLC controlled
control	
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	1.21.3 kg/cm2	
Ground clearance	360 mm	
Oscillation angles	+/- 10°	
Tramming force	140 kN	
Max. tramming speed	1.6 / 3.2 km/h	

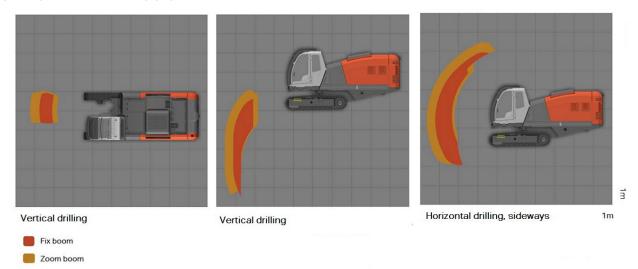
THE	FOR	DRILL	STEELS

DRILL STEEL TYPE	DRILL STEEL	RECOMMENDED
	DIAMETER	HOLE DIAMETER
Pipes	76/89 mm	89 - 127 mm 3½" -
		5"
Pipes	102 mm	114 - 130 mm 4½"
		- 5 1/8"

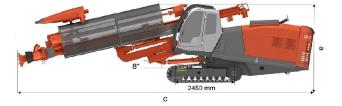
	SELECTION OF OPTIONS
	Additional tool box below cabin
,	Alternative seat with 3-point seat belt and air cushioning
	Radio with CD-MP3 player
_	Reversing camera
-	Rock shield for lights and lower part of the window
_	Roller blinds for cabin windows
	Vacuum cleaner for cabin Driller's Notes - MWD Data Collection for TIM3D
	Driller's Notes - MWD Data Collection for TiM3D  Driller's Office planning software (one-year license)
	GPS aiming device for TIM and TIMi inclined holes
-	TIM 5200 for vertical holes
	TIM 5300 for vertical holes and depth measuring
	TIM 5600 for vertical and horizontal holes and depth measuring
	TIM 6300 for inclined holes and depth measuring
	TIM 6500 for inclined holes, depth measuring and laser level
	TIM3D drill navigation system (Leica)
-	DTH hammer service tool (requires radio remote control option)
-	Horizontal drilling kit
	Kit for alternative pipes, each
-	Pipe winch (requires radio remote control option)
	Thread greasing
	Telescopic boom
-	Anti-freeze system for thread greasing Central lubrication system Sandvik
	Electric fuel filling pump
	Electric hydraulic oil filling pump
	Electric water filling pump
-	Fast fill connection for engine coolant, hydraulic and engine oils
	Fast fill connection for fuel Wiggins
	Guides for grousers
	Hand-held led working light with accumulator
-	Hydraulic rear ground support
	Hydraulic winch (requires radio remote control option)
	Manual compressor oil filling pump
-	Pressure washer (with water injection option only)
	Radio remote control for carrier and pipe winch and hammer service tool
_	Single bar grouser plates
-	Towing hook
-	Xenon lights, 11 pcs
	Disengagement clutch for compressor, manual
	Ether starting aid for engine without ether bottle
	Fuel powered engine heater, extra large
	Fuel powered engine heater, large
_	Jump start device (high current el. socket)
	Water injection system
	Grinder Sandvik RG420H
_	Extra bit basket
	Extra manuals, price will be added according to pricing sheet
_	First service kit for DI450
	Service agreement - select level from extra item  My Sandvik and SanRemo - select level from extra item
_	wy Sandvik and Sankemo - Select level from extra item



# **COVERAGE AREA AND DIMENSIONS**







## Fix boom



# **DIMENSIONS**

Weight	23 370 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 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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