

# Pantera DP1100i S5 SURFACE DRILLS

**TECHNICAL SPECIFICATION** 

Pantera DP1100i is intelligent, self-propelled, self-contained, crawler based surface drilling rig equipped with a cabin and a rod changer.

Pantera DP1100i with practical intelligence fits perfectly for production drilling in large quarries or open pit mines and construction work sites. It suits well also for wall control and development works. To customize the rig it can be equipped with a variety of options to meet special requirements.

KEY FEATURES
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Hole diameter:	89 - 140 mm (3 ½" - 5½")
Rock tools:	51 and 60 mm (2" and 2 3/8") rods
Rock Drill	25 kW
Engine output:	250 kW (TIER 4F/EU Stage V)
Flushing air:	11 m3/min, up to 10 bar(depends on used rock tools)
Production capacity:	1,5 Mt/year
Total weight:	22 900 kg



Rock drill	HL 1060T / RD1635CF (optional)	Engine type	Caterpillar C 9.3B (T4F/StageV)
Rock tools	51, 60 mm	DEF tank	AdBlue, 42 I
Operating pressure	90 - 160 bar	Number of cylinders	6
Percussion rate	33 - 38 Hz	Engine output	250 kW/1800 rpm
Percussion output power	25 / 35 kW	Transmission type	Gear box
Maximum rotation torque	1 780 / 2050 Nm	Screw compressor type	Enduro 25
Shank lubrication	Air / oil mist	Air filters	2 pcs, dry type with ejector
Flushing	Air		and safety element
Weight	450 kg	Fuel tank	680
	_	HYDRAULIC SYSTEM	
FEED		Number of gear pumps	3 pcs. for dust collector and
Feed type	LF 1514 HR with hose reel		cooling
Total length	9 154 mm	Number of piston pumps	2 pcs. for drilling, tramming, boom and rodhandling
Rock drill travel	4 980 mm	Filtration rate	12 micron abs.
Max. length of starter rod	(18')	Cooling capacity	up to +50°C ambient
Hose reel	Standard	Hydraulic oil tank	3901
Feed extension travel	1 480 mm	Shank lubrication device	SLU 50
Feed/pull out force	36 kN	<del></del>	
Feed swing	-56/+52° (-20/+94°)		
Feed tilt	13-135°	CONTROL SYSTEM	0 1 1 0 0 4 5 0 4 1 1
		Control system type	Sandvik SICA, PLC controlled proportional electro- hydraulic
ROD CHANGER		Tramming/boom/ drilling control	PLC controlled
Rod changer type	RC 1614	User interface	Electro-proportional joysticks
Storage capacity	7+1 (51 and 60 mm rods)	Control system diagnostics	and touchscreen Graphical flow chart type
Rod length	6+1 (87 mm tubes) 3 660, 4 270 mm	Drilling control system type	iTorque
Max. hole depth	33 m (7+1) x 14'	Antijamming system	For rotation and flushing
<u> </u>		Collaring control	Automatic
		Preset drilling parameters	Adjustable for fine tuning for
BOOM Boom type	ZB 1550 H, telescopic	- M. II.	different rock conditions
Boom extension		Voltage	24 VDC
	500 mm		
Boom swing	-2/+30°	DUST COLLECTOR	
Collaring height	+1.24 /-4.1 m	Dust collector type	DC 1550
Horizontal holes	To the right hand side	Capacity/vacuum	35 m³/min at 1 200 mm vacuum H2O
		Filter elements/material	20 pcs / fiber
CABIN		Total filter surface	16 m²
Cabin type	Ergo cool	Primary cyclone	PE 80
Certificates	F.O.P.S. and R.O.P.S.	Movable suction head	MS 250
Noise level in the cabin	80 dB (A)		
Air conditioning	Standard *	CARRIER	
Pressurization	Standard	CARRIER Track type	FL 6
Seat	Ergonomic, adjustable	Grouser plate width	400 mm
Vibration dampening	Standard	Ground contact length	2510 mm
Windows	Safety laminated, tinted	Ground contact length  Ground pressure	1.1 kg/cm <sup>2</sup>
* Air condition eyetem contain	selective glass with wiper	·	
* Air condition system contains fluorinated greenhouse gases HFC-134a		Ground clearance	360 mm
		Oscillation angles	+/- 11°
		<b>-</b>	4=0111
		Tramming force  Max. tramming speed	150 kN 1.8/3.2 km/h

#### STANDARD COMPONENTS Rock drill HL 1060T, hydraulic Feed LF 1514 HR Safety cage Hose reel, drum type Rod changer RC 1514 Boom ZB 1550 H, telescopic Carrier FL 6, oscillating Powerpack, diesel driven, hydraulic pumps and onboard compressor Hydraulic system, load sensing Operator's cabin Ergo Cool with AC Dust collection system DC 1550 H, hydraulic Working lights 15 pcs (9 forward) Reversing alarm TIMi for vertical holes and depth measuring Movable drill steel support Suction shut down for water holes Flushing control automatics EU-safety devices Gauge set for accumulator pressure checking 1 Set Manuals, paper copy 1 Set Manuals, USB memory SanRemo Mobile, Bluetooth connectivity

THE JAWS FOR DRI	LL STEELS	
DRILL STEEL TYPE	DRILL STEEL	RECOMMENDED
	DIAMETER	HOLE DIAMETER
Extension rods /	51 mm 2"	89 -127 mm 3 ½" -
MF rods		5"
MF-rods	60 mm 2 3/8"	102 - 140 mm 4" - 5
		1/2"
Pilot tube	76 mm 3"	89 - 127 mm 3 ½" -
		5"
Pilot tube	87 mm 3 ½"	102 - 140 mm 4" - 5
		1/2"

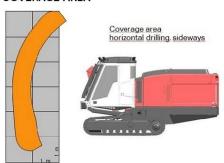
THE IAME FOR DRILL STEELS

SELECTION OF OPTIONS
Alternative seat with 3-point seat belt and air cushioning
H13 Cabin filter, HEPA Cooler bag in cabin
Radio with CD-MP3 player
Reversing camera
Roller blinds for cabin windows
Vacuum cleaner for cabin
Driller's Notes - MWD Data Collection for TIM3D
Driller's Office planning software (one-year license)
Automatic feed alignment for TIMi
GPS aiming device for TIM and TIMi inclined holes
TIM3D drill navigation system (Trimble)
TIM3D drill navigation system (Leica)
TIM3D drill navigation system readiness (Trimble/Leica) TIMi for inclined holes and hole depth measuring
TIMi laser level based depth measuring
Feed support for soft ground
Horizontal drilling kit
Kit for alternative steels, each
LF 1522 feed with hose reel ( max starter rod 20 ft )
Rollers for rod changer
Thread greasing
Thread greasing with 5 gallon bucket
Tube drilling kit
Full cycle one hole automatic drilling
Power extractor, not with RD1635CF drifter
Readyness for Power Extractor RD1635CF and CSL System. Replaces standard components
HF1560T Rock Drill (If hole dia 5,5" and hard rock = consult
factory)
HF820T Rock Drill replaces standard component
HL1560T Rock Drill (replaces standard component)
Anti- freeze system for air lines
Biogradeable hydraulic oil, not with CSL
Central lubrication system Sandvik
Electric fuel filling pump
Electric hydraulic oil filling pump
Electric water filling pump
East fill connection for engine coolant, hydraulic and engine oils
Fast fill connection for engine coolant, hydraulic and engine oils
Fast fill connection for fuel and water tanks (not with option
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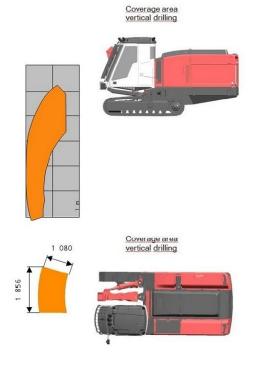


## **COVERAGE AREA AND DIMENSIONS**

### **COVERAGE AREA**











## **DIMENSIONS**

Weight	22 900 kg
Width	2.5 m
Height	3.28 m/3.34 m
Total length	11.5 / 11.1 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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