

# Pantera DP1100i T3 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**

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:	230 kW (Tier 3)
Flushing air:	11 m3/min, up to 10 bar(depends on used rock tools)
Production capacity:	1,5 Mt/year
Total weight :	22 600 kg



Rock drill	HL 1060T / RD1635CF	Engine type	Caterpillar C9.3B
Rock tools	(optional) 51, 60 mm	Number of cylinders	6
Operating pressure	90 - 160 bar	Engine output	230 kW/1800 rpm
Percussion rate	33 - 38 Hz	Transmission type	Gear box
Percussion output power	25 / 35 kW	Screw compressor type	Enduro 25
Maximum rotation torque	1 780 / 2050 Nm	Air filters	2 pcs, dry type with ejector
Shank lubrication	Air / oil mist	Fuel tank	and safety element 680 l
Flushing	Air	- der tank	
Weight	450 kg		
vveignt	430 kg	HYDRAULIC SYSTEM	
		Number of gear pumps	3 pcs. for dust collector and cooling
FEED	0.11.1.15.11.11.11.11.11.11.11.11.11.11.1	Number of piston pumps	2 pcs. for drilling, tramming,
Feed type	Cylinder feed LF 1514 HR with hose reel	Filtration rate	boom and rodhandling 12 micron abs.
Total length	9 154 mm	Cooling capacity	up to +50°C ambient
Rock drill travel	4 980 mm	Hydraulic oil tank	3901
Max. length of starter rod	(18')	Shank lubrication device	SLU 50
Hose reel	Standard	Sharik lubi ication device	310 30
Feed extension travel	1 480 mm		
Feed/pull out force	36 kN	CONTROL SYSTEM	
Feed swing	-56/+52° (-20/+94°)	Control system type	Sandvik SICA, PLC controlled proportional electro- hydraulic
Feed tilt	13-135°	Tramming/boom/ drilling	PLC controlled
		control	
		User interface	Electro-proportional joysticks and touchscreen
ROD CHANGER Rod changer type	RC 1614	Control system diagnostics	Graphical flow chart type
Storage capacity	7+1 (51 and 60 mm rods)	Drilling control system type	iTorque
Storage capacity	6+1 (87 mm tubes)	Antijamming system	For rotation and flushing
Rod length	3 660, 4 270 mm	Collaring control	Automatic
Max. hole depth	33 m (7+1) x 14'	Preset drilling parameters	Adjustable for fine tuning for
	_	Voltage	different rock conditions 24 VDC
BOOM		Voltage	24 VDC
Boom type	ZB 1550 H, telescopic		
Boom extension	500 mm	DUST COLLECTOR	D0.1550
Boom swing	-2/+30°	Dust collector type	DC 1550
Collaring height	+1.24 /-4.1 m	Capacity/vacuum	35 m³/min at 1 200 mm vacuum H2O
Horizontal holes	To the right hand side	Filter elements/material	20 pcs / fiber
		Total filter surface	16 m²
		Primary cyclone	PE 80
CABIN		Movable suction head	MS 250
Cabin type	Ergo cool		
Certificates	F.O.P.S. and R.O.P.S.	CARRIER	
Noise level in the cabin	80 dB (A)	CARRIER Track type	FL 6
Air conditioning	Standard *	Grouser plate width	400 mm
Pressurization	Standard	Ground contact length	2510 mm
Seat	Ergonomic, adjustable		
Vibration dampening	Standard	Ground pressure	1.1 kg/cm²
Windows	Safety laminated, tinted	Ground clearance	360 mm
* Air condition system contain	selective glass with wiper as fluorinated greenhouse gases	Oscillation angles	+/- 11°
HFC-134a	io nacimated greeninouse gases	Tramming force	150 kN
		Max. tramming speed	1.8/3.2 km/h

#### Rock drill HL 1060T, hydraulic Hose reel, drum type Feed LF 1514 HR 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

STANDARD COMPONENTS

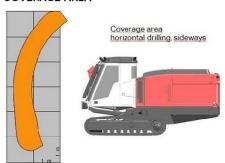
THE JAWS FOR DRILL STEELS		
DRILL STEEL TYPE	DRILL STEEL	RECOMMENDED
	DIAMETER	HOLE DIAMETER
Extension rods /	51 mm 2"	89 -127 mm 3 ½" -
MF rods		5"
MF-rods	60 mm 2 3/8"	102 - 140 mm 4" - 5
		1/2"
Pilot tube	76 mm 3"	89 - 127 mm 3 ½" -
		5"
Pilot tube	87 mm 3 ½"	102 - 140 mm 4" - 5
		1/2"

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
Safety cage for feed
Full cycle one hole automatic drilling
Power extractor, not with RD1635CF drifter
Readyness for Power Extractor RD1635CF and CSL System. Replaces standard components
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
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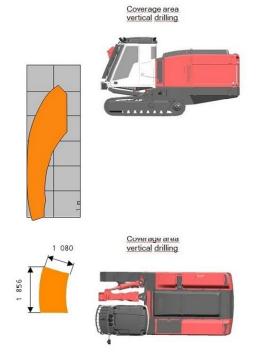


# **COVERAGE AREA AND DIMENSIONS**

### **COVERAGE AREA**











## **DIMENSIONS**

Weight	22 600 kg
Width	2.5 m
Height	3.28/3.34 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.

ROCKTECHNOLOGY.SANDVIK