

Pantera DP1110i S5 SURFACE DRILLS

Technical specification

Pantera DP1110i is intelligent, self-propelled, self-contained, crawler based surface drilling rig equipped with a cabin and a rod changer.

Pantera DP1110i 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 1/2" - 5 1/2")
Rock tools:	T51, CT55, GT60, CT67
Rock Drill	25 / 35kW
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





HYDRAULIC ROCK DRILL

Rock drill	RD1725 / RD1735C (optional)
Rock tools	51, 55, 60, 67 mm
Operating pressure	90 - 160 bar
Percussion rate	33 - 38 Hz
Percussion output power	25 / 35 kW
Maximum rotation torque	2160 /2400 Nm OMT400/500
Shank lubrication	Air / oil mist
Flushing	Air
Weight	490 kg

FEED

Feed type	LF 1520 HR with hose reel
Total length	9 770 mm
Rock drill travel	5660 mm
Max. length of starter rod	6096 mm (20')
Hose reel	Standard
Feed extension travel	1 480 mm
Feed/pull out force	36 kN
Feed swing	-56/+52° (-20/+94°)
Feed tilt	13-135°

ROD CHANGER

Rod changer type	RC 1514
Storage capacity	7+1 (T51, GT60) 6+1 (CT67,87mm tube)
Rod length	3 660, 4 270 mm
Max. hole depth	33 m (7+1) x 14'

BOOM

Boom type	ZB 1550 H, telescopic
Boom extension	500 mm
Boom swing	-2/+30°
Collaring height	+1.24 /-4.1 m
Horizontal holes	To the right hand side

CABIN

Cabin type	Ergo cool
Certificates	F.O.P.S. and R.O.P.S.
Noise level in the cabin	80 dB (A)
Air conditioning	Standard *
Pressurization	Standard
Seat	Ergonomic, adjustable
Vibration dampening	Standard
Windows	Safety laminated, tinted selective glass with wiper

* A/C system contains fluorinated greenhouse gases HFC-134a

POWERPACK

Engine type	Caterpillar C 9.3B (T4F/StageV)
DEF tank	AdBlue, 42 l
Number of cylinders	6
Engine output	250 kW/1800 rpm
Transmission type	Gear box
Screw compressor type	Enduro 25
Air filters	2 pcs, dry type with ejector and safety element
Fuel tank	680 l

HYDRAULIC SYSTEM

Number of gear pumps	3 pcs. for dust collector and cooling
Number of piston pumps	2 pcs. for drilling, tramming, boom and rodhandling
Filtration rate	12 micron abs.
Cooling capacity	up to +50°C ambient
Hydraulic oil tank	390 l
Shank lubrication device	SLU 50

CONTROL SYSTEM

Control system type	Sandvik SICA, PLC controlled proportional electro- hydraulics
Tramming/boom/ drilling control	PLC controlled
User interface	Electro-proportional joysticks and touchscreen
Control system diagnostics	Graphical flow chart type
Drilling control system type	iTorque
Antijamming system	For rotation and flushing
Collaring control	Automatic
Preset drilling parameters	Adjustable for fine tuning for different rock conditions
Voltage	24 VDC

DUST COLLECTOR

Dust collector type	DC 1550
Capacity/vacuum	35 m ³ /min at 1 200 mm vacuum H2O
Filter elements/material	20 pcs / fiber
Total filter surface	16 m ²
Primary cyclone	PE 80
Movable suction head	MS 250

CARRIER

Track type	FL 6
Grouser plate width	400 mm
Ground contact length	2510 mm
Ground pressure	1.1 kg/cm ²
Ground clearance	360 mm
Oscillation angles	+/- 11°
Tramming force	150 kN
Max. tramming speed	1.8/3.2 km/h



STANDARD COMPONENTS

Rock drill RD1725, hydraulic
Cylinder feed LF 1520 HR (max starter rod 20 ft)
Feed support for soft ground
Hose reel, drum type
Rod changer RC 1514
Boom ZB 1550 H, telescopic
Carrier FL 6, oscillating
Guides for grousers
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, LED, 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 pc Operator's and Maintenance Manual (paper copy)
Knowledge Box for My Sandvik
Bluetooth connectivity for My Sandvik
(*) Option replaces standard component

THE JAWS FOR DRILL STEELS

DRILL STEEL TYPE	DRILL STEEL DIAMETER	RECOMMENDED HOLE DIAMETER
Extension rods / MF rods	51 mm 2"	89 -127 mm 3 1/2" - 5"
MF-rods	60 mm 2 3/8"	102 - 140 mm 4" - 5 1/2"
MF-rods	67 mm 5/8"	102 - 140 mm 4" - 5 1/2"
Pilot tube	76 mm 3"	89 - 127 mm 3 1/2" - 5"
Tubes	87 mm 3 1/2"	102 - 140 mm 4" - 5 1/2"

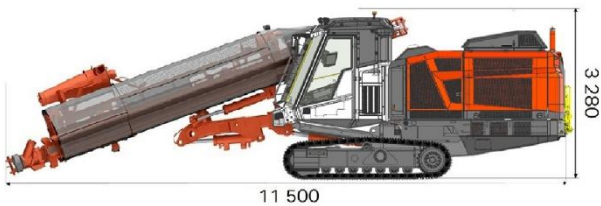
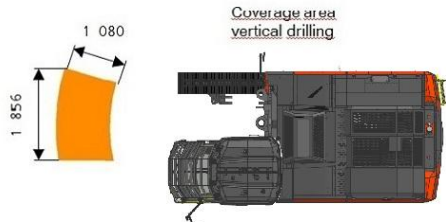
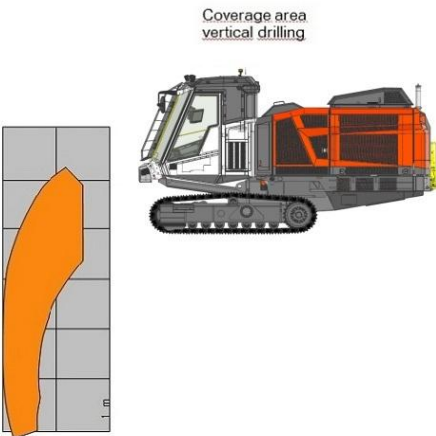
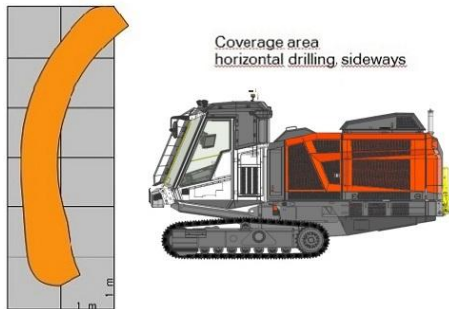
SELECTION OF OPTIONS

Alternative seat with 3-point seat belt and air cushioning
H13 Cabin filter, HEPA
Cooler bag in cabin
Radio, CD/USB MP3/WMA, DAB/DAB+/DMB, Bluetooth®
Reversing camera
Roller blinds for cabin windows
Vacuum cleaner for cabin
PERFORMANCE iDRILL on-board automation package TH
NAVIGATION iDRILL on-board automation package TH
LINE-OF-SIGHT Automine (Automine ready iDRILL) TH
Driller's Notes - MWD Data Collection for TIM3D
Driller's Office planning software (one-year license)
+ My Sandvik Insight, 1-yr license, BG01722724
+ My Sandvik Productivity and Drill Plan Transfer, 1-yr license, BG01765055
Automatic feed alignment for TIMi
GPS aiming device for TIMi inclined holes
TIM3D drill navigation system (Trimble)
TIM3D drill navigation system (Leica)
TIMi for inclined holes and hole depth measuring
TIMi for inclined holes, Open Drill Interface , TIM3D readiness
Horizontal drilling kit
Kit for alternative steels, each
Thread greasing
Thread greasing with 5 gallon bucket
Tube drilling kit
Full cycle one hole automatic drilling
Power Extractor (not with RockPulse)
Readiness for Power Extractor
RD1735C Rock Drill and CSL System (*)
Anti- freeze system for air lines
Biodegradable hydraulic oil, not with CSL(*)
Central lubrication system Lincoln
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 and water tanks (not with option 5110)
Fire suppression, Eclipse Sustain, automatic 0°C to +60°C
Fire suppression, Eclipse Extreme, automatic 0°C to -40°C
Hydraulic rear ground support
Radio remote control for drilling, boom and tramming
Remote Screen interface (Tablet or mobile phone not included).
Single bar grouser plates
Towing hook
Ether starting aid for engine without ether bottle
Fuel powered heater for engine and cabin
Fuel powered heater for engine, cabin and water tank
Readiness for fuel powered heater
Dustmizer (engine heater option needed below freezing point)
Flap feeder for dust collector
Sampling device
Water injection system
Extra manuals: Parts Manual (paper copy)
Extra manuals: Operator's and Maintenance Manual (paper copy)
First service kit for Pantera DPi
Special tools for RD17xx series, field kit
Special tools for RD17xx series, complete
Service agreement - select level from extra item



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.