

Pantera DP1510i S5 SURFACE DRILLS

Technical specification

Pantera DP1510i is intelligent, self-propelled, self-contained, crawler based surface drilling rig equipped with a cabin and a rod changer.

Pantera DP1510i 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 - 152 mm (3 ½" - 6")
Rock tools:	T51, CT55, GT60, CT67
Rock Drill	35 / 40 kW
Engine output:	280 kW (TIER 4F/EU Stage V)
Flushing air:	14 m3/min up to 10 bar
	(depends on used rock tools)
Production capacity:	2,0 Mt/year
Total weight :	23 000 kg





Rock drill	RD1735 /RD1740C (optional	
Rock tools	51, 55, 60, 67, 76, 87 mm	
Operating pressure	90 - 220 bar	
Percussion rate	35 - 40 Hz	
Percussion output power	35 / 40 kW	
Maximum rotation torque	2160 /2400 Nm OMT400/500	
Shank lubrication	Air / oil mist	
Flushing	Air	
Weight	490 kg	
FEED	LE 1500 LID with been real	
Feed type	LF 1520 HR with hose reel	
Total length		
Rock drill travel	5660 mm	
Max. length of starter rod	6096 mm (20') Standard	
Hose reel Feed extension travel	1 480 mm	
Feed/pull out force Feed swing	36 kN -56/+52° (-20/+94°)	
Feed tilt	13-135°	
ROD CHANGER Rod changer type	RC 1514	
Storage capacity	7+1 (T51, GT60)	
Storage capacity	6+1 (CT67,87mm tube)	
Rod length	3 660, 4 270 mm	
Max. hole depth	33 m (7+1) x 14'	
ВООМ		
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	

POWERPACK	0	
Engine type	Caterpillar C 9.3B (T4F/StageV)	
DEF tank	AdBlue 42 I	
Number of cylinders	6	
Engine output	280 kW/1800 rpm	
Transmission type	Gear box	
Screw compressor type	Enduro 25	
Air filters	2 pcs, dry type with ejector	
Fuel tank	680	
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	3901	
Shank lubrication device	SLU 50 / CSL optional	
CONTROL SYSTEM		
Control system type	Sandvik SICA, PLC controlled proportional electro-hydraulio	
Tramming/boom/ drilling	PLC controlled	
control 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 m³/min at 1 200 mm	
Capacity/ vacuum	vacuum H2O	
Filter elements/material	20 pcs / fiber	
Total filter surface	16 m²	
Primary cyclone	PE 80	
	MS 250	
Movable suction head		
CARRIER	FL 6	
CARRIER Track type	FL 6 400 mm	
CARRIER Track type Grouser plate width		
CARRIER Track type Grouser plate width Ground contact length Ground pressure	400 mm 2510 mm	
CARRIER Track type Grouser plate width Ground contact length Ground pressure	400 mm	
CARRIER Track type Grouser plate width	400 mm 2510 mm 1.1 kg/cm ²	

150 kN

1.8/3.2 km/h

Tramming force

Max. tramming speed

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



STANDARD COMPONENTS

Rock drill RD1735, 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	DRILL STEEL	RECOMMENDED
TYPE	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"
MF-rods	67 mm 2 5/8"	102 - 140 mm 4" -
		5 1/2"
Pilot tube	76 mm 3"	89 - 127 mm 3 ½"
		- 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)

Readyness for Power Extractor

RD1740C Rock Drill and CSL System (*)

Anti- freeze system for air lines

Biogradeable 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

Readyness 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

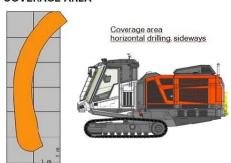
Special tools for RD17xx series, complete

Service agreement - select level from extra item

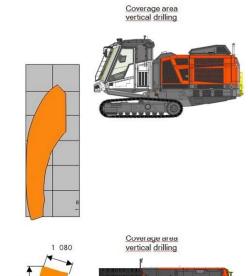


Coverage area and dimensions

COVERAGE AREA







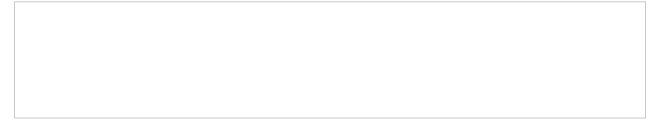




DIMENSIONS

Weight	23 000 kg
Width	2.5 m
Height	3.28 m/3.34 m
Total length	11.5 / 11.1 m

11 500



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