

APPLICATION

Pantera 1100 is a hydraulic, self-propelled, self-contained, crawler based surface drilling rig equipped with a cabin and a rod changer. It drills 89 - 140 mm (3 1/2" - 5 1/2") vertical, inclined or horizontal holes with 51 mm and 60 mm (2" and 2 3/8") extension rods or 102 - 152 mm (4" - 6") vertical, inclined or horizontal holes with 76 and 87 mm (3" and 3 1/2") tubes. Good results in difficult ground conditions are obtained by using pilot tube drilling, where the first rod is replaced by a 76 or 87 mm (3" or 3 1/2") special tube.

Pantera 1100 is equipped with HL 1000, hydraulic top hammer rock drill. With high rotation torque, proper flushing and sophisticated, ergonomic drilling control system the rig adapts itself easily into varying rock conditions. The rig has a telescopic boom for fast hole spotting and set up of the feed. The cylinder feed for max. 6,1 m (20 ') starter rod for single pass drilling together with carousel type rod changer with a possibility to use 4,3 m (14 ') rods add productivity of drilling.

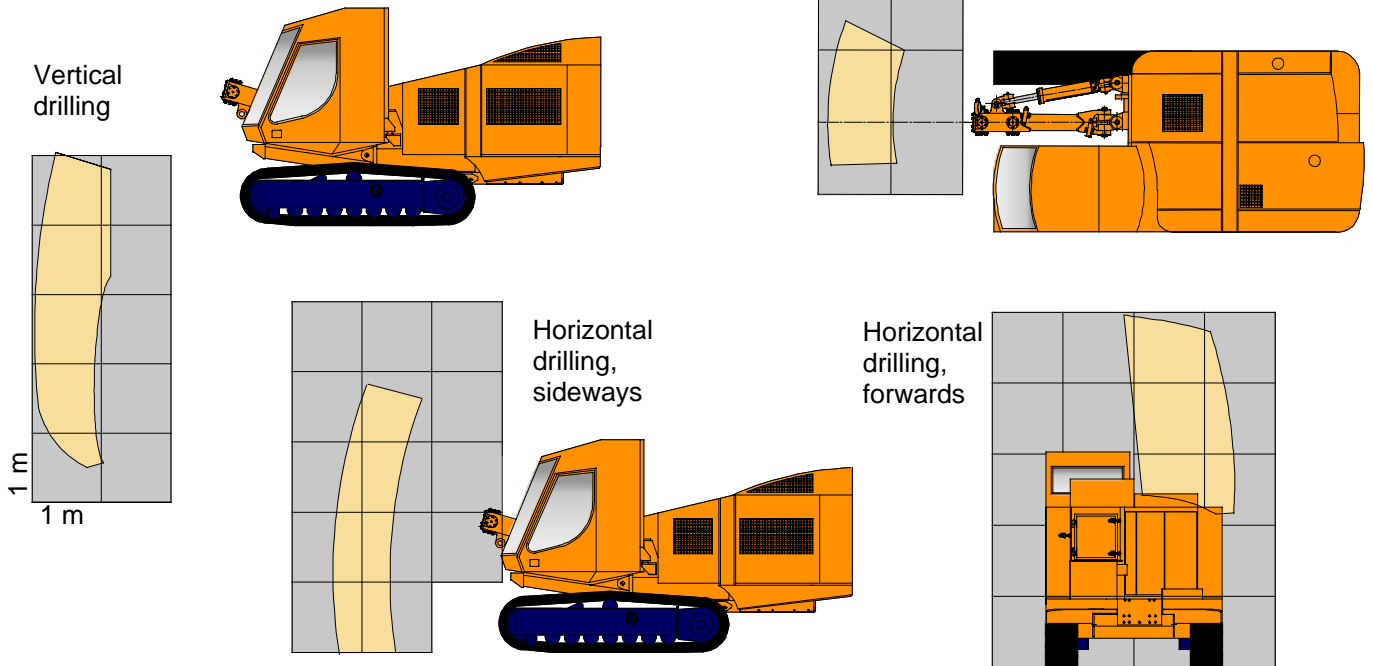
The powerpack of Pantera 1100 consists of Caterpillar diesel engine and a gearbox, which divides the power for hydraulic pumps (two variable displacement pumps) and flushing air compressor.

All panel sections can be opened for easy access to service spots. Powerpack is mounted crosswise at the rear of the rig to balance the weight of the boom and the feed.

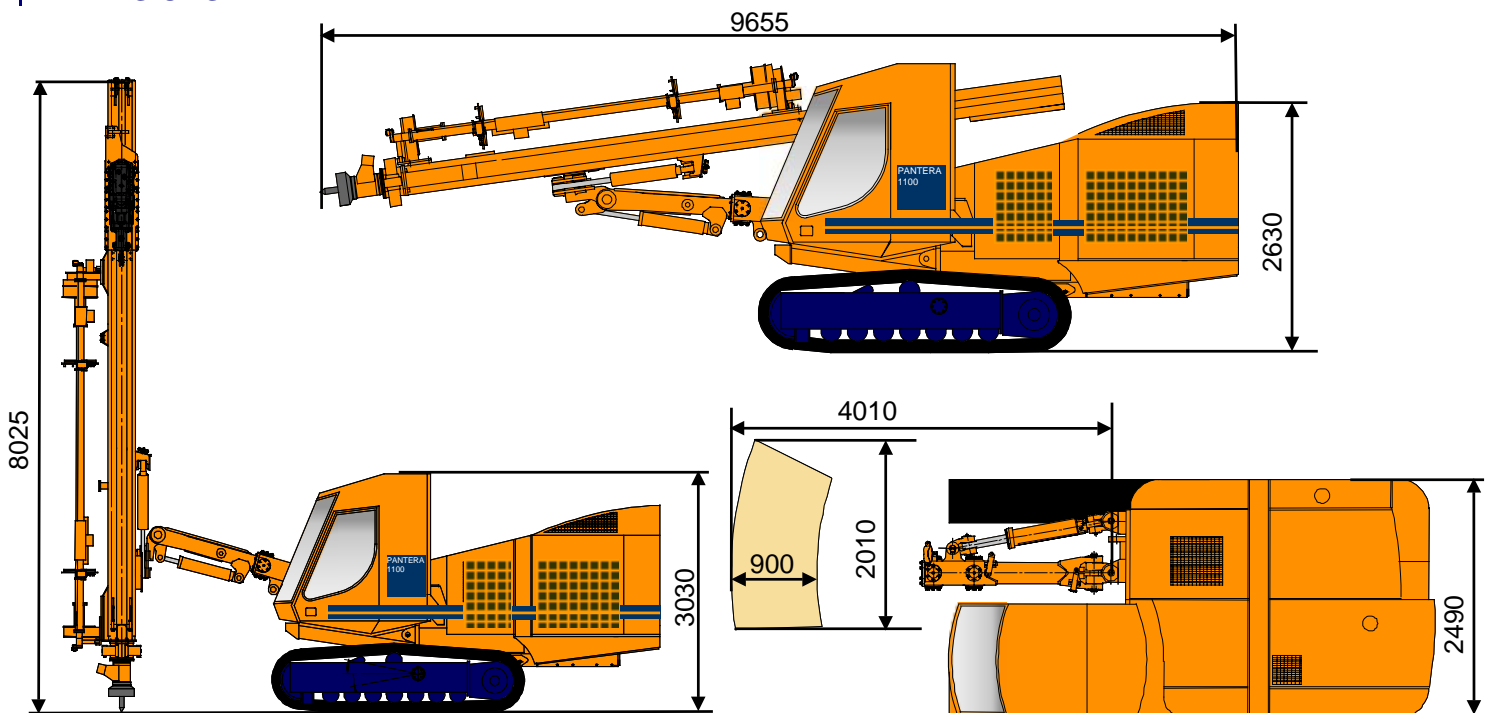
Pantera 1100 has an ergonomic and roomy full vision cabin to increase operator's comfort and efficiency. The cabin is certified for F.O.P.S. and R.O.P.S. (Falling Object Protection Structure and Roll-Over Protection Structure). Windows are safety laminated and the noise level in the cabin is less than 80 dB(A). Optimal visibility to the drilling spot is achieved by locating the control levers to both sides of the cabin. Drilling functions are proportionally controlled by one joystick on right hand side. Rod changer functions are controlled by another joystick on left hand side. Cabin exceeds all standards for operator's working environment.

Pantera 1100 is designed for efficient production drilling in medium large to 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.

COVERAGE AREA



DIMENSIONS



STANDARD COMPONENTS

- | | | |
|-----|------------------------|---|
| 1. | Rock drill | HL 1000, hydraulic |
| 2. | Feed | LF 1514 |
| 3. | Rod changer | RC 1514 |
| 4. | Boom | ZB 1550 H, telescopic |
| 5. | Carrier | FL 6, oscillating |
| 6. | Powerpack | Diesel driven,
hydraulic pumps and
on board compressor |
| 7. | Hydraulic system | Load sensing and
open center |
| 8. | Control system | THC Pro |
| 9. | Operator's cabin | Ergo Pro |
| 10. | Dust collection system | DC 1520 H, hydraulic |
| 11. | Working lights | 8 pcs |
| 12. | Gauge set | For accumulator pressure
checking |
| 13. | Reversing alarm | |
| 14. | Manuals | Service and spare parts
manuals:
2 x paper copy
2 x CD-ROM (Toolman) |
| 15. | EU-safety devices | |

TRANSPORT DIMENSIONS

Weight	18 800 kg
Width	2.52 m
Height	3.2 m
Total length	10.5 m

SELECTION OF OPTIONS

- | | | | |
|-----|---|-----|--|
| 1. | Heating and air conditioning | 20. | Kit for alternative steels |
| 2. | Rod greasing | 21. | Tube drilling kit |
| 3. | P&Q electric angle indicator | 22. | Movable drill steel support |
| 4. | Electric angle indicator TIM 2302 | 23. | Horizontal drilling support |
| 5. | Measuring system TIM 2303 | 24. | Towing hook |
| 6. | Laser based measuring system TIM 2305 | 25. | Readyness for Power extractor |
| 7. | Power extractor | 26. | Extra manuals |
| 8. | Electric filling pump for refuelling | 27. | First service kit for Pantera 1100 |
| 9. | Remote control box & hydraulic winch (7 tons) | 28. | Special tools for HL 1000, field kit
ID 880 822 99 |
| 10. | Rollers for rod changer RC 1514 | 29. | Special tools for HL 1000, complete
ID 151 737 78 |
| 11. | Hose reel | 30. | Central lubrication system |
| 12. | Three-bar grouser plates | 31. | Fast fill connection for fuel and water tanks |
| 13. | Guides for grousers | 32. | Fast fill connection for engine coolant,
hydraulic oil, engine oil |
| 14. | Flushing control automatics | 33. | Sanroc Mini H hydraulic bit grinder |
| 15. | Shut-down of suction for water holes | 34. | Radio and CD player |
| 16. | Water injection system | 35. | Biodegradable hydraulic oil, Shell naturelle HFE
46 or HFE 68 (synthetic ester) |
| 17. | Water injection system w/o tank | | |
| 18. | Hydraulic ground support HM 75 | | |
| 19. | Fuel heater for cabin, hydraulic oil and engine | | |

THE JAWS FOR DRILL STEELS

	Drill steel type	Drill steel diameter	Recommended hole diameter
1.	Extension rods / MF rods	51 mm 2"	89 -127 mm 3 ½" - 5"
2.	MF-rods	60 mm 2 ¾"	102 - 140 mm 4" - 5 ½"
3.	Pilot tube	76 mm 3"	89 - 127 mm 3 ½" - 5"
4.	Pilot tube	87 mm 3 ½"	102 -140 mm 4" - 5 ½"
5.	Tubes	76 mm 3"	89 -127 mm 3 ½" - 5"
6.	Tubes	87 mm 3 ½"	102 -152 mm 4" - 6"

ADJUSTMENT INFORMATION FOR DELIVERY

Rotation motor

1.	Rotation motor OMT 315 for 76-102 mm, 3"-4" holes
2.	Rotation motor OMT 500 for 102-152 mm, 4"-6" holes

Extension rod lengths

- | | | |
|----|----------|-----|
| 1. | 3 660 mm | 12' |
| 2. | 4 270 mm | 14' |

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