

## APPLICATION

Pantera 1500 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 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 1500 is equipped with HL 1560, hydraulic top hammer rock drill. With high rotation torque, proper flushing and sophisticated, ergonomic Rock Pilot 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.

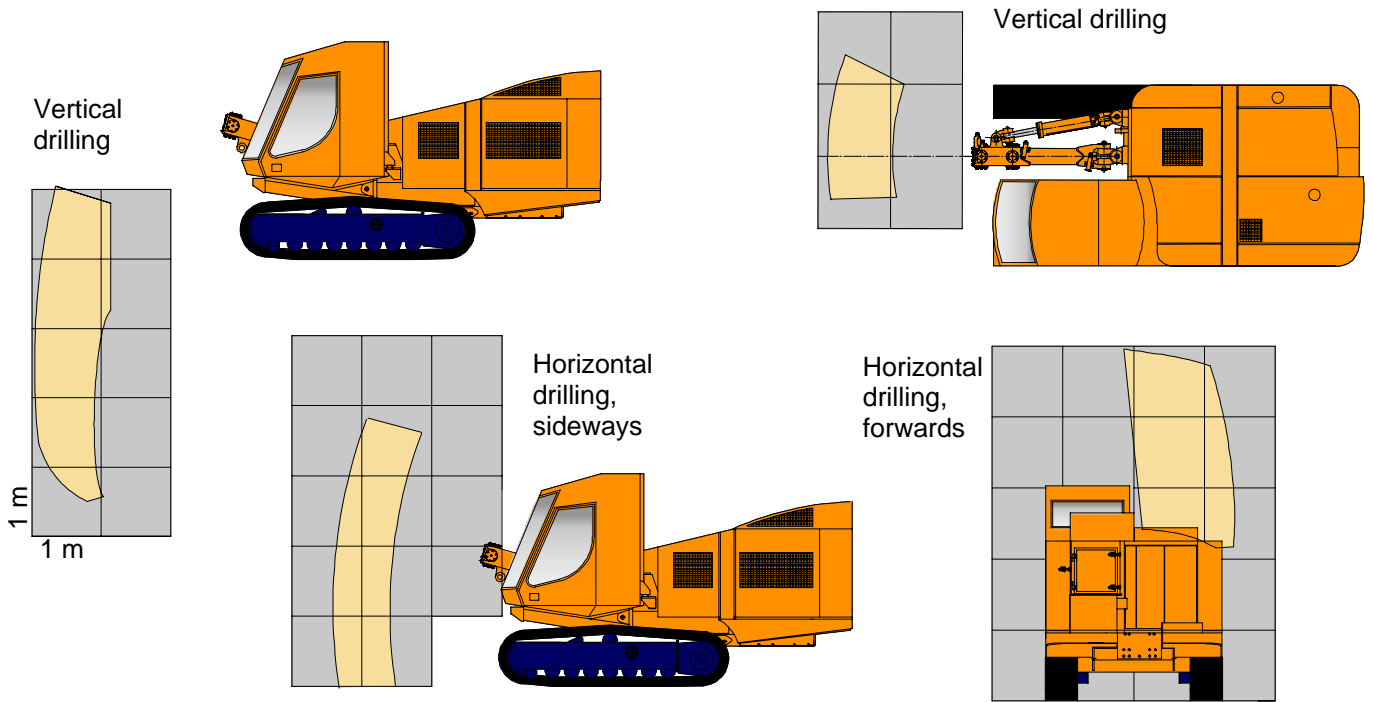
The powerpack of Pantera 1500 consists of Caterpillar diesel engine and a gearbox, which divides the power for hydraulic pumps (two variable displacement pumps) and flushing air compressor.

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.

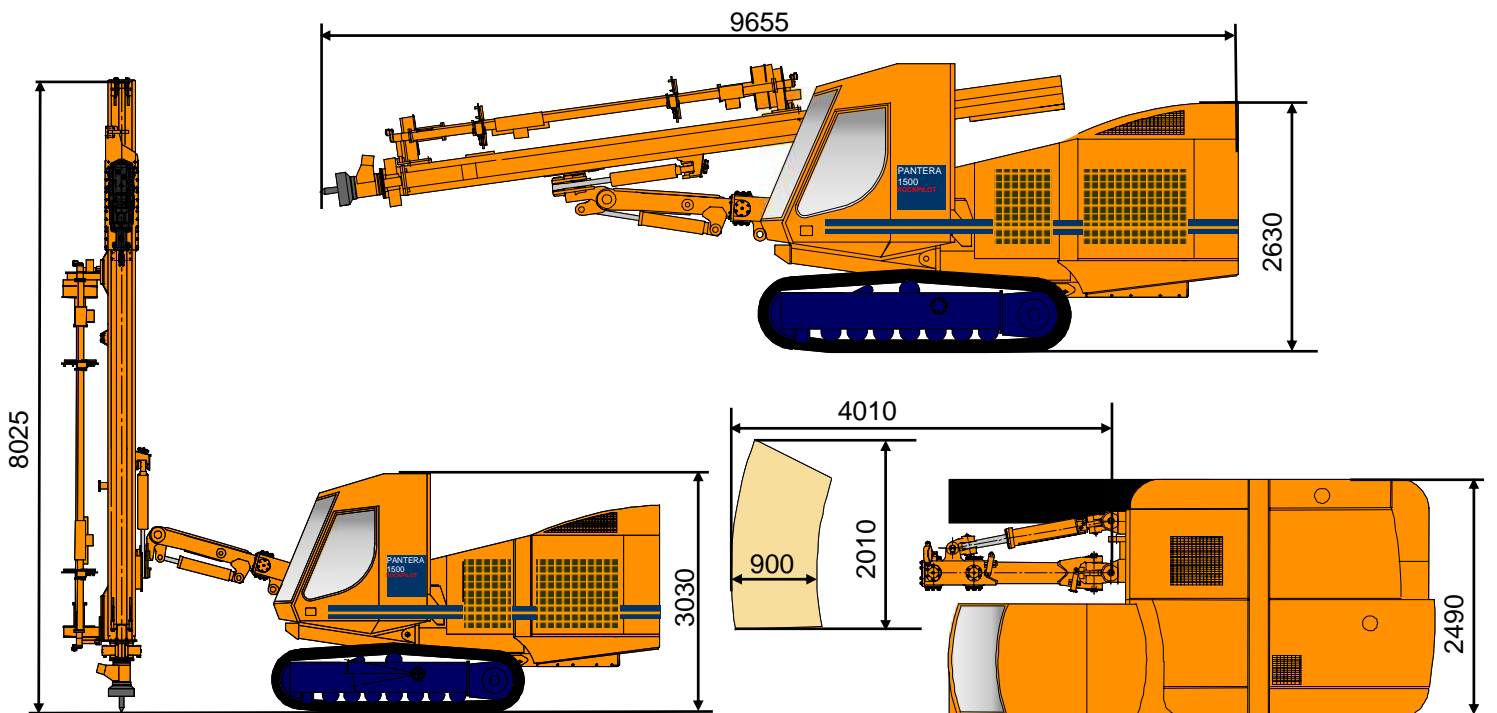
Pantera 1500 has an ergonomic and roomy full vision cabin to increase operator's comfort and efficiency. The cabin is certified for F.O.P.S. and R.O.P.S. (Falling Object Protection Structure and Roll-Over Protection Structure). Windows are safety laminated and the noise level in the cabin is less than 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 1500 is designed for efficient 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.

## COVERAGE AREA



## DIMENSIONS



## STANDARD COMPONENTS

- |     |                        |   |
|-----|------------------------|---|
| 1.  | Rock drill             | HL 1560, 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,<br>hydraulic pumps and<br>on board compressor                  |
| 7.  | Hydraulic system       | Load sensing and<br>open center   |
| 8.  | Control system         | THC Pro with Rock Pilot   |
| 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<br>checking  |
| 13. | Reversing alarm        |   |
| 14. | Manuals                | Service and spare parts<br>manuals:<br>2 x paper copy<br>2 x CD-ROM (Toolman) |
| 15. | EU-safety devices      |   |

## 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 - 140 mm 3 ½" - 5 ½"
6.	Tubes	87 mm 3 ½"	102 - 152 mm 4" - 6"

## ADJUSTMENT INFORMATION FOR DELIVERY

### Rotation motor

1.	Rotation motor OMT 400 for 89 - 127 mm, 3 ½" - 5" holes
2.	Rotation motor OMT 500 for 127 - 152 mm, 5" - 6" holes

### Extension rod lengths

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

## TRANSPORT DIMENSIONS

Weight	19 000 kg
Width	2.52 m
Height	3.2 m
Total length	10.5 m

## SELECTION OF OPTIONS

- |     |  |     |  |
|-----|--|-----|--|
| 1.  | Heating and air conditioning                       | 22. | Movable drill steel support  |
| 2.  | Rod greasing                                       | 23. | Horizontal drilling support  |
| 3.  | P&Q electric angle indicator                       | 24. | Towing hook  |
| 4.  | Electric angle indicator TIM 2302                  | 25. | Readyness for Power extractor  |
| 5.  | Measuring system TIM 2303                          | 26. | Extra manuals  |
| 6.  | Laser based measuring system TIM 2305              | 27. | First service kit for Pantera 1500   |
| 7.  | Power extractor                                    | 28. | Special tools for HL 1560, field kit<br>ID 550 420 18                              |
| 8.  | Electric filling pump for refuelling               | 29. | Special tools for HL 1560, complete<br>ID 550 387 95                               |
| 9.  | Remote control box &<br>hydraulic winch (7 tons)   | 30. | Central lubrication system   |
| 10. | Rollers for rod changer RC 1514                    | 31. | Fast fill connection for fuel and water tanks                                      |
| 11. | Hose reel  | 32. | Fast fill connection for engine coolant,<br>hydraulic oil, engine oil              |
| 12. | Three-bar grouser plates                           | 33. | Sanrock Mini H hydraulic bit grinder   |
| 13. | Guides for grousers                                | 34. | Radio and CD player  |
| 14. | Flushing control automatics                        | 35. | Biodegradable hydraulic oil, Shell naturelle<br>HFE 46 or HFE 68 (synthetic ester) |
| 15. | Shut-down of suction for water holes               | 36. | Antifreeze for air lines   |
| 16. | Water injection system                             |     |  |
| 17. | Water injection system w/o tank                    |     |  |
| 18. | Hydraulic ground support HM 75                     |     |  |
| 19. | Fuel heater for cabin, hydraulic oil and<br>engine |     |  |
| 20. | Kit for alternative steels                         |     |  |
| 21. | Tube drilling kit                                  |     |  |

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