

## APPLICATION

Sandvik DP1100 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 - 140 mm (4" - 5 1/2") 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.

DP1100 is equipped with HL 1010, 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.

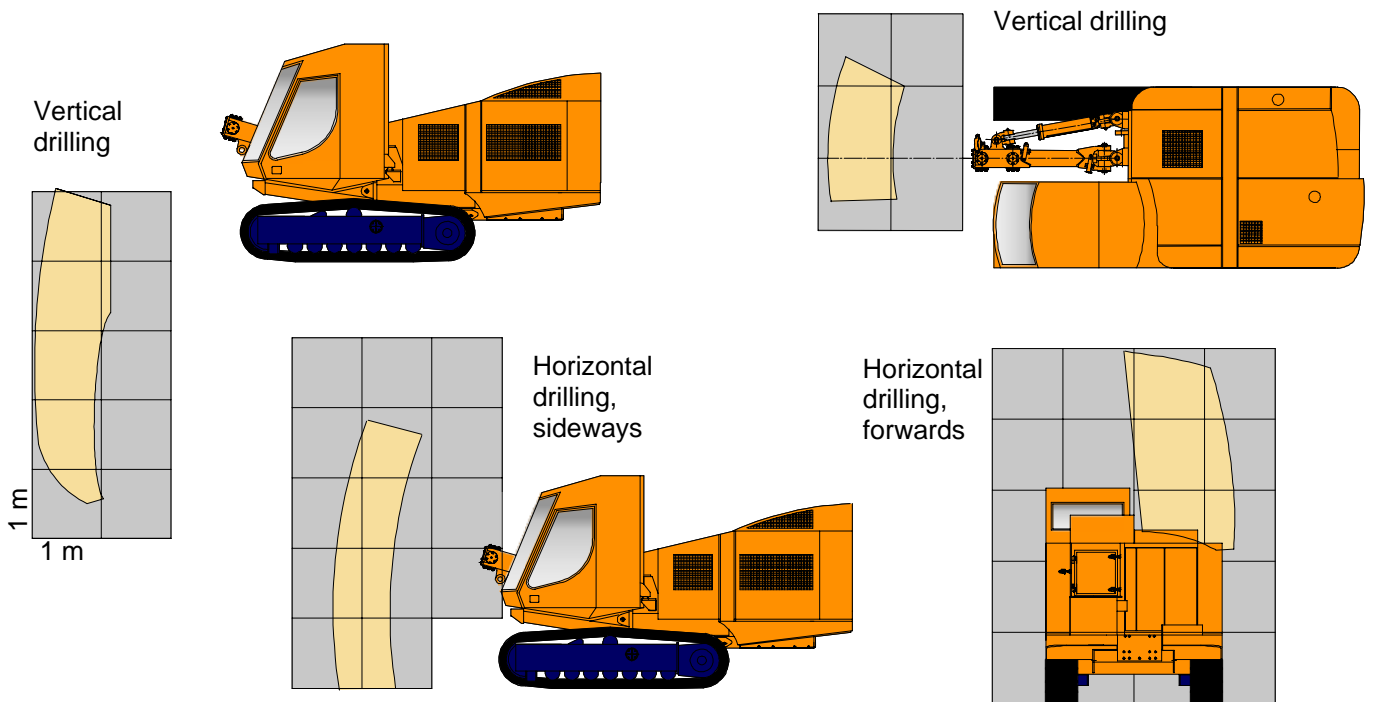
The powerpack of DP1100 consists of Caterpillar diesel engine and a gearbox, which divides the power for hydraulic pumps (two variable displacement pumps) and flushing air compressor.

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.

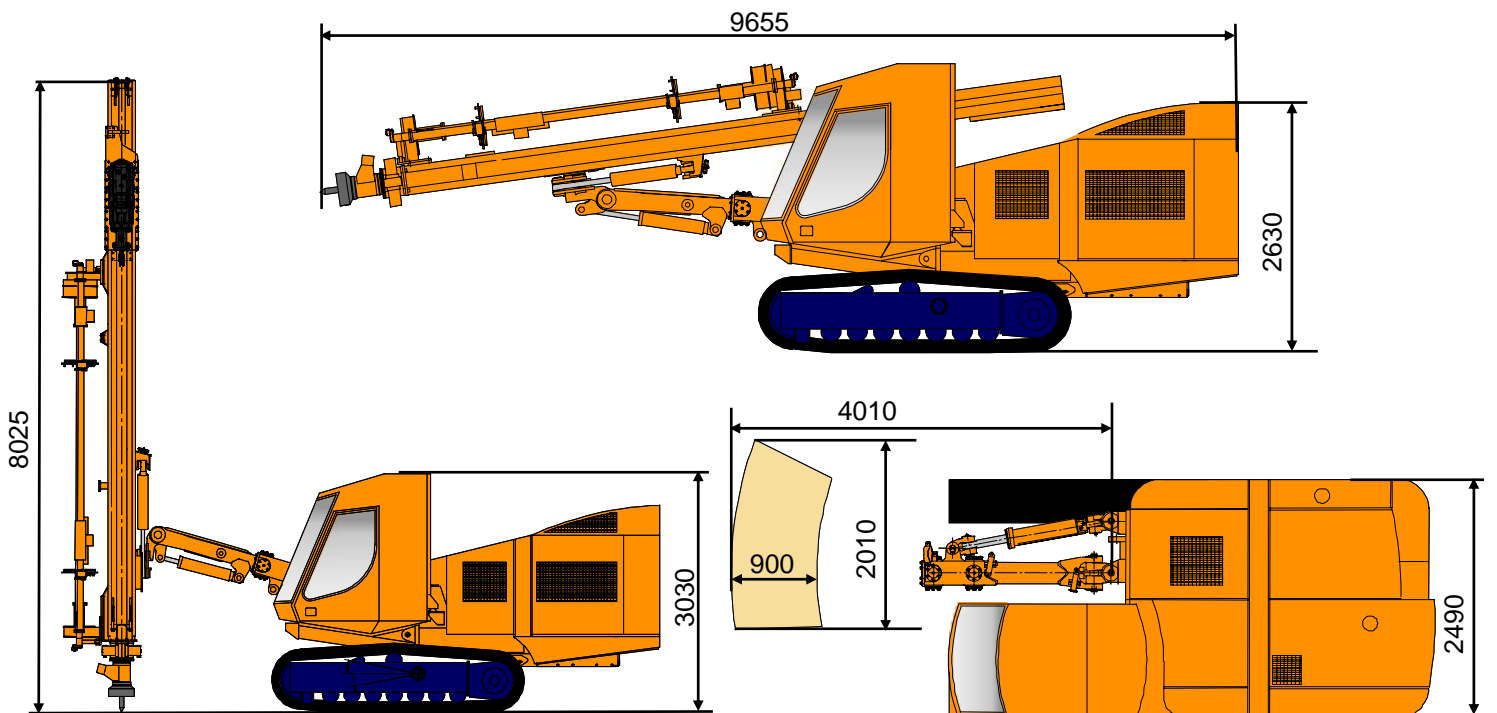
DP1100 has an ergonomic and roomy full vision cabin to increase operator's comfort and efficiency. The cabin is certified for F.O.P.S. and R.O.P.S. (Falling Object Protection Structure and Roll-Over Protection Structure). Windows are safety laminated and the noise level in the cabin is less than 80 dB(A). Optimal visibility to the drilling spot is achieved by locating all controls on seat arm rests and side panels 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.

DP1100 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 1010, 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 1/2" - 5"
2.	MF-rods	60 mm 2 3/8"	102 - 140 mm 4" - 5 1/2"
3.	Pilot tube	76 mm 3"	89 - 127 mm 3 1/2" - 5"
4.	Pilot tube	87 mm 3 1/2"	102 - 140 mm 4" - 5 1/2"
5.	Tubes	76 mm 3"	89 - 140 mm 3 1/2" - 5 1/2"
6.	Tubes	87 mm 3 1/2"	102 - 140 mm 4" - 5 1/2"

## ADJUSTMENT INFORMATION FOR DELIVERY

### Rotation motor

1.	Rotation motor OMT 400 for 76 - 127 mm, 3" - 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	18 800 kg
Width	2.52 m
Height	3.2 m
Total length	10.5 m

## SELECTION OF OPTIONS

- |     |   |     |  |
|-----|---|-----|--|
| 1.  | Heating and air conditioning                    | 21. | Tube drilling kit  |
| 2.  | Rod greasing                                    | 22. | Movable drill steel support  |
| 3.  | P&Q electric angle indicator                    | 23. | Horizontal drilling kit (includes hose reel)                                       |
| 4.  | Electric angle indicator TIM 2302               | 24. | Towing hook  |
| 5.  | Measuring system TIM 2303                       | 25. | Readyness for Power extractor  |
| 6.  | Laser based measuring system TIM 2305           | 26. | Extra manuals  |
| 7.  | Power extractor                                 | 27. | First service kit for DP1100   |
| 8.  | Electric filling pump for refuelling            | 28. | Special tools for HL 1010, field kit   |
| 9.  | Remote control box & hydraulic winch (7 tons)   | 29. | Special tools for HL 1010, complete  |
| 10. | Rollers for rod changer RC 1514                 | 30. | Central lubrication system   |
| 11. | Hose reel                                       | 31. | Fast fill connection for fuel and water tanks                                      |
| 12. | Three-bar grouser plates                        | 32. | Fast fill connection for engine coolant,<br>hydraulic oil, engine oil              |
| 13. | Guides for grousers                             | 33. | Sanrock Mini H hydraulic bit grinder   |
| 14. | Flushing control automatics                     | 34. | Radio and CD player  |
| 15. | Shut-down of suction for water holes            | 35. | Biodegradable hydraulic oil, Shell naturelle HFE<br>46 or HFE 68 (synthetic ester) |
| 16. | Water injection system                          | 36. | Antifreeze for air lines   |
| 17. | Water injection system w/o tank                 |     |  |
| 18. | Hydraulic ground support HM 75                  |     |  |
| 19. | Fuel heater for cabin, hydraulic oil and engine |     |  |
| 20. | Kit for alternative steels                      |     |  |

Sandvik Mining and Construction reserves the right to change this specification without further notice.