

RANGER 800

Rock Pilot



APPLICATION

Ranger 800 is a hydraulic, self-propelled, self-contained, crawler based surface drilling rig equipped with a cabin (F.O.P.S. and R.O.P.S.) and rod handling system. It drills vertical, inclined or horizontal holes with a diameter of 64 - 127 mm (2 ½" - 5") utilizing 38, 45 or 51 mm (1 ½", 1 ¾" or 2") extension rods.

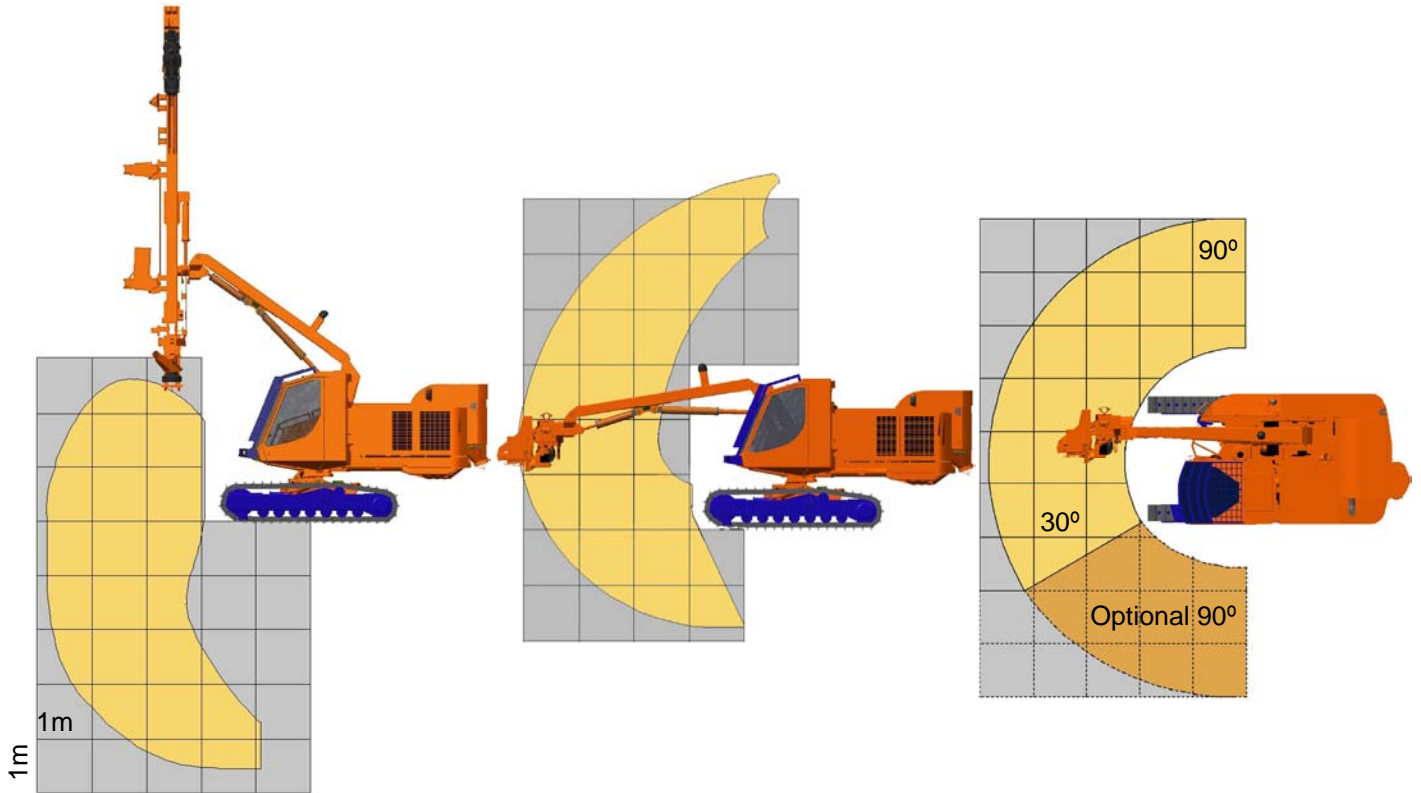
Ranger 800 is equipped with HL 800 T, hydraulic top hammer rock drill. With high rotation torque, sufficient flushing and sophisticated ergonomic drilling control system the rig is well suited also in very fractured rock conditions. The rock drill and articulated boom are mounted on the turnable superstructure giving a drilling coverage of 17,6 m² (optionally 26,4 m²).

The powerpack of Ranger 800 consists of a Caterpillar diesel engine and a gearbox, which divides the power for hydraulic pumps and flushing air compressor. The powerpack is mounted crosswise at the rear end of the superstructure to keep counterweight on the opposite side of the boom and feed regardless of the drilling direction.

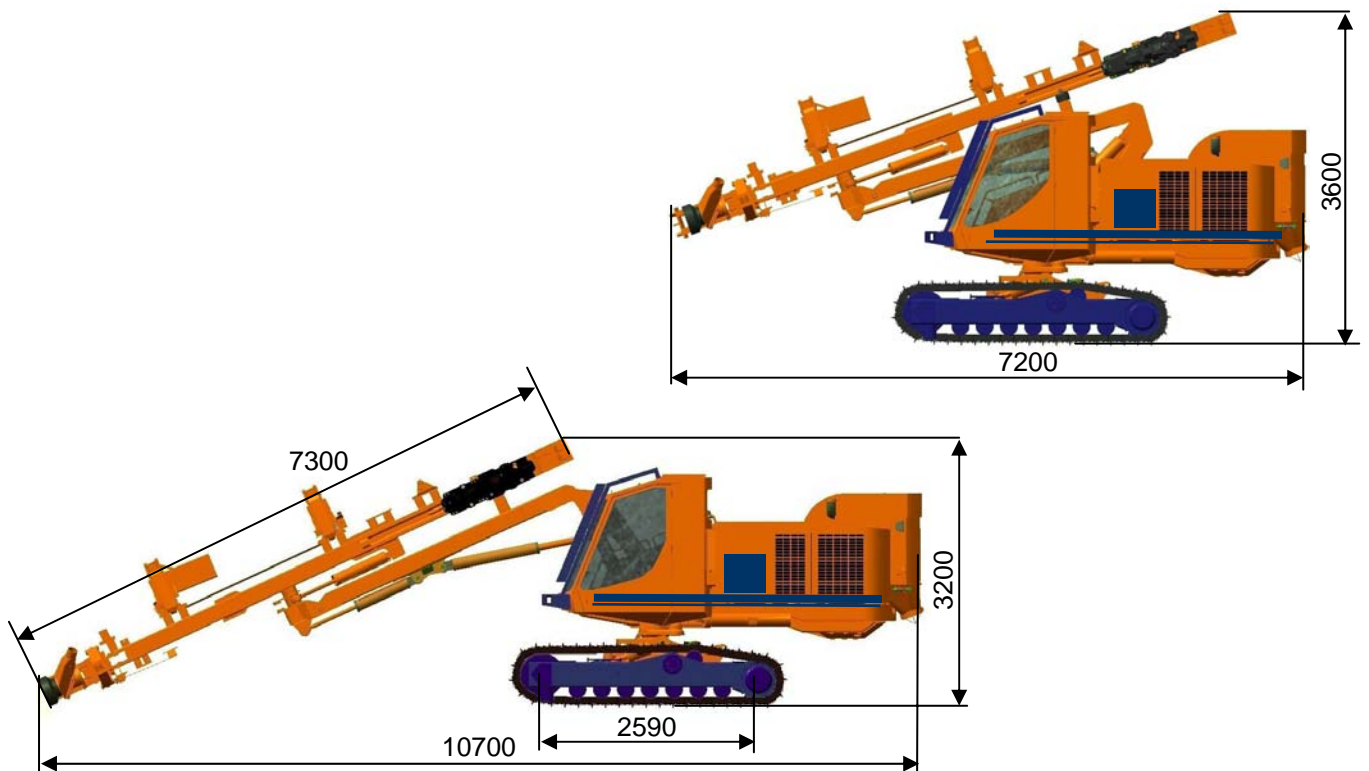
Ranger 800 has an ergonomic cabin to increase operator's safety and visibility. The cabin is certified for R.O.P.S. (ISO-3471 Roll-Over protection Structure) and F.O.P.S. (ISO-3449 Falling Object Protection Structure). Windows are laminated for added safety. The noise level in the cabin is less than 80 dB(A). To keep dust at a minimum, the cabin is fitted with efficient filters for incoming fresh air. Adjustable seat, good visibility, adequate lighting and an optimum working temperature are among the many features ensuring a good operating environment. Drilling functions are proportionally controlled by one hydraulic joy-stick. Several routine functions e.g. antijamming are executed automatically. There are fewer levers to make it easy to use. Driving, rear jack and winch control can be done outside the cabin from the optional remote control box.

Typical applications for Ranger 800 are road cutting, pipe-line drilling and foundation drilling, as well as production drilling in medium size quarries. Therefore Ranger 800 is most often used by construction contractors, mines and quarries, and also included in the equipment fleet of rental houses as well.

DRILLING DIMENSIONS



TRANSPORT DIMENSIONS



STANDARD COMPONENTS

- | | | |
|-----|------------------------|--|
| 1. | Rock drill | HL 800 T, hydraulic |
| 2. | Chain feed | CF 145H |
| 3. | Rod handler | RH 714 incl. 1 set of jaws |
| 4. | Boom | DB 800H, articulated |
| 5. | Carrier | Track mounted, turnable superstructure |
| 6. | Powerpack | Diesel driven, hydraulic pumps and on-board compressor |
| 7. | Hydraulic system | Load sensing and open center |
| 8. | Control system | THC 700 Rock Pilot |
| 9. | Operator's cabin | F.O.P.S. and R.O.P.S. |
| 10. | Dust collection system | DC 800 H, hydraulic |
| 11. | Working lights | 9 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 (without options) | 14 900 kg |
| Width | 2.45 m |
| Height | 3.6 m / 3.2 m |
| Total length | 7.2 m / 10.7 m |

THE JAWS FOR DRILL STEELS

| | Drill steel type | Drill steel diameter | Recommended hole diameter |
|----|------------------|----------------------|-------------------------------|
| 1. | Extension rods | 38 mm 1 1/2" | 64 - 70 mm 2 1/2" - 2 3/4" |
| 2. | MF-rod | 38 mm 1 1/2" | 64 - 70 mm 2 1/2" - 2 3/4" |
| 3. | Extension rods | 45 mm 1 3/4" | 76 - 89 mm 3" - 3 1/2" |
| 4. | MF-rod | 45 mm 1 3/4" | 76 - 89 mm 3" - 3 1/2" |
| 5. | MF-rod | 51 mm 2" | 89 - 127 mm 3 1/2" - 5" |

Note

- not with 10' MF-rods
- with hose reel only 10' or 12' rods
- 51 mm (2") / 14' steels only MF-type
- if several jaws selected please specify jaws assembled

SELECTION OF OPTIONS

- | | | | |
|-----|---|-----|---|
| 1. | Turnable superstructure 180° | 22. | Horizontal drilling kit |
| 2. | Air conditioning | 23. | Hose reel (not with 14' rods) |
| 3. | Rod greasing system | 24. | Movable drill steel support |
| 4. | P&Q electric vertical angle indicator (± 6 deg.) | 25. | Radio with CD player |
| 5. | Electric angle indicator TIM 2302 with aiming unit | 26. | Central lubrication system |
| 6. | Measuring system TIM 2303 with aiming unit | 27. | Kit for alternative steels |
| 7. | Laser based measuring system TIM 2305 | 28. | Water injection system with tank |
| 8. | Power extractor | 29. | Water injection system w/o tank |
| 9. | Electric filling pump for refuelling | 30. | Zero Dust system |
| 10. | Remote control box; for rear ground support, driving and oscillation | 31. | Biodegradable hydraulic oil, Shell naturelle HFE 46 or HFE 68 (synthetic ester) |
| 11. | Remote control box + hydraulic winch with cable tightness automatics (replaces previous option) | 32. | Extra manuals |
| 12. | Hydraulic rear ground support | 33. | First service kit for Ranger 800 ² |
| 13. | Three-bar grouser plates | 34. | Special tools for HL 800 T, field kit ID 550 055 29 |
| 14. | Guides for grousers | 35. | Special tools for HL 800 T, complete ID 550 302 70 |
| 15. | Towing hook | 36. | Antifreeze for air lines |
| 16. | Fuel operated heater for cabin, hydr. oil and engine | 37. | Vacuum cleaner for cabin |
| 17. | Flushing control automatics | | |
| 18. | Shut down of suction for water holes | | |
| 19. | Readyness for Power extractor | | |
| 20. | Sanrock Mini H hydraulic bit grinder | | |
| 21. | Primary separator PE 50 | | |

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