APPLICATION

Ranger 700 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 - 115 mm (2 ½” - 4 ½”) utilizing 38, 45 or 51 mm (1 ½”, 1 ¾” or 2”) extension rods.

Ranger 700 is equipped with HL 710, 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 700 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 700 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 joystick. Several routine functions e.g. anti-jamming 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 700 are road cutting, pipeline drilling and foundation drilling, as well as production drilling in medium size quarries. Therefore Ranger 700 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 710, 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
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) 14 800 kg
Width 2.5 m
Height 3.6 m / 3.2 m
Total length 7.2 m / 10.7 m

THE JAWS FOR DRILL STEELS

<table>
<thead>
<tr>
<th>Drill steel type</th>
<th>Drill steel diameter</th>
<th>Recommended hole diameter</th>
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</thead>
<tbody>
<tr>
<td>1. Extension rods</td>
<td>38 mm 1 ½&quot;</td>
<td>64 - 70 mm 2 ½&quot; - 2 ¾&quot;</td>
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<tr>
<td>2. MF-rod</td>
<td>38 mm 1 ½&quot;</td>
<td>64 - 70 mm 2 ½&quot; - 2 ¾&quot;</td>
</tr>
<tr>
<td>3. Extension rods</td>
<td>45 mm 1 ¾&quot;</td>
<td>76 - 89 mm 3&quot; - 3 ½&quot;</td>
</tr>
<tr>
<td>4. MF-rod</td>
<td>45 mm 1 ¾&quot;</td>
<td>76 - 89 mm 3&quot; - 3 ½&quot;</td>
</tr>
<tr>
<td>5. MF-rod</td>
<td>51 mm 2&quot;</td>
<td>89 - 115 mm 3 ½&quot; - 4 ½&quot;</td>
</tr>
</tbody>
</table>

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 180º
2. Air conditioning
3. Rod greasing system
4. P&Q electric vertical angle indicator (± 6 deg.)
5. Electric angle indicator TIM 2302 with aiming unit
6. Measuring system TIM 2303 with aiming unit
7. Laser based measuring system TIM 2305
8. Power extractor
9. Electric filling pump for refuelling
10. Remote control box; for rear ground support, driving and oscillation
11. Remote control box + hydraulic winch with cable tightness automatics (replaces previous option)
12. Hydraulic rear ground support
13. Three-bar grouser plates
14. Guides for grousers
15. Fuel operated heater for cabin, hydr. oil and engine
16. Flushing control automatics
17. Shut down of suction for water holes
18. Sanrock Mini H hydraulic bit grinder
19. Readyness for Power extractor
20. Towing hook
21. Primary separator PE 50
22. Horizontal drilling kit
23. Hose reel (not with 14' rods)
24. Movable drill steel support
25. Radio with CD player
26. Central lubrication system
27. Kit for alternative steels
28. Water injection system with tank
29. Water injection system w/o tank
30. Zero Dust system
31. Biogradeable hydraulic oil, Shell naturelle HFE 46 or HFE 68 (synthetic ester)
32. Extra manuals
33. First service kit for Ranger 700²
34. Special tools for HL 710, field kit ID 150 734 88
35. Special tools for HL 710, complete ID 150 730 78
36. Antifreeze for air lines
37. Vacuum cleaner for cabin

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