Ranger DX600 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.

Typical applications for Ranger DX600 are road cutting, pipe-line drilling and foundation drilling, as well as production drilling in medium size quarries. Therefore Ranger DX600 is most often used by construction contractors, mines and quarries, and also included in the equipment fleet of rental houses as well.

**KEY FEATURES**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Hole diameter:</td>
<td>64-102 mm (2½” – 4”)</td>
</tr>
<tr>
<td>Rock tools:</td>
<td>38, 45 or 51 mm (1½&quot;, 1¾&quot; and 2&quot;)</td>
</tr>
<tr>
<td>Rock Drill</td>
<td>17,5kW</td>
</tr>
<tr>
<td>Engine output:</td>
<td>168 kW</td>
</tr>
<tr>
<td>Flushing air:</td>
<td>6,2 m³/min, up to 10 bar</td>
</tr>
<tr>
<td>Production capacity:</td>
<td>2200 m³/8h</td>
</tr>
<tr>
<td>Total weight:</td>
<td>15 200 kg</td>
</tr>
</tbody>
</table>
### HYDRAULIC ROCK DRILL

<table>
<thead>
<tr>
<th>Spec</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rock drill</td>
<td>HL 650</td>
</tr>
<tr>
<td>Rock tools</td>
<td>38,45,51 mm</td>
</tr>
<tr>
<td>Operating pressure</td>
<td>100-170 bar</td>
</tr>
<tr>
<td>Percussion rate</td>
<td>55 Hz</td>
</tr>
<tr>
<td>Percussion output power</td>
<td>17.5 kW</td>
</tr>
<tr>
<td>Maximum rotation torque</td>
<td>1 325</td>
</tr>
<tr>
<td>Shank lubrication</td>
<td>Air / oil mist</td>
</tr>
<tr>
<td>Flushing</td>
<td>Air</td>
</tr>
<tr>
<td>Weight</td>
<td>245 kg</td>
</tr>
</tbody>
</table>

### FEED

<table>
<thead>
<tr>
<th>Spec</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feed type</td>
<td>CF 145H</td>
</tr>
<tr>
<td>Total length</td>
<td>7 700 mm</td>
</tr>
<tr>
<td>Rock drill travel</td>
<td>5 020 mm without hose reel</td>
</tr>
<tr>
<td>Max. length of starter rod</td>
<td>5 485 mm (18') without hose reel</td>
</tr>
<tr>
<td>Hose reel</td>
<td>Optional</td>
</tr>
<tr>
<td>Feed extension travel</td>
<td>1350 mm</td>
</tr>
<tr>
<td>Feed/pull out force</td>
<td>20 kN</td>
</tr>
<tr>
<td>Feed swing</td>
<td>-56°/+52° (-20°/+94°)</td>
</tr>
<tr>
<td>Feed tilt</td>
<td>125°</td>
</tr>
</tbody>
</table>

### ROD CHANGER

<table>
<thead>
<tr>
<th>Spec</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rod changer type</td>
<td>RH 714</td>
</tr>
<tr>
<td>Storage capacity</td>
<td>6+1 rods (45 mm)</td>
</tr>
<tr>
<td>Rod length</td>
<td>3050, 3660, 4265 mm (10', 12', 14')</td>
</tr>
<tr>
<td>Max. hole depth</td>
<td>29 m (7x14')*</td>
</tr>
</tbody>
</table>

### BOOM

<table>
<thead>
<tr>
<th>Spec</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boom type</td>
<td>DB 800H, articulated</td>
</tr>
<tr>
<td>Boom reach</td>
<td>4.8 m</td>
</tr>
<tr>
<td>Drilling coverage</td>
<td>17.6 m² (26.4 m²)</td>
</tr>
<tr>
<td>Collaring height</td>
<td>+2.5 m/-4.5 m</td>
</tr>
<tr>
<td>Horizontal holes</td>
<td>To the right</td>
</tr>
</tbody>
</table>

### CABIN

<table>
<thead>
<tr>
<th>Spec</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cabin type</td>
<td>Ergo</td>
</tr>
<tr>
<td>Certificates</td>
<td>F.O.P.S. and K.O.P.S.</td>
</tr>
<tr>
<td>Noise level in the cabin</td>
<td>below 80 dB(A)</td>
</tr>
<tr>
<td>Air conditioning</td>
<td>Standard *</td>
</tr>
<tr>
<td>Pressurization</td>
<td>Standard</td>
</tr>
<tr>
<td>Seat</td>
<td>Multiposition</td>
</tr>
<tr>
<td>Vibration dampening</td>
<td>Standard</td>
</tr>
<tr>
<td>Windows</td>
<td>Safety laminated, tinted, with wipers</td>
</tr>
<tr>
<td>Power take-off</td>
<td>12 VDC</td>
</tr>
</tbody>
</table>

### HYDRAULIC SYSTEM

<table>
<thead>
<tr>
<th>Spec</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of gear pumps</td>
<td>4 pcs. for dust collector and cooling</td>
</tr>
<tr>
<td>Number of piston pumps</td>
<td>4 pcs. for drilling, tramming, boom and rodhandling</td>
</tr>
<tr>
<td>Filtration rate</td>
<td>12 micron abs., return 25 micron, pressure</td>
</tr>
<tr>
<td>Cooling capacity</td>
<td>up to +50°C ambient</td>
</tr>
<tr>
<td>Hydraulic oil tank</td>
<td>200 l</td>
</tr>
<tr>
<td>Shank lubrication device</td>
<td>SLU 14-1</td>
</tr>
</tbody>
</table>

### CONTROL SYSTEM

<table>
<thead>
<tr>
<th>Spec</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control system type</td>
<td>Hydraulic pilot control and relay logic</td>
</tr>
<tr>
<td>Tramming/boom/ drilling control</td>
<td>Pilot/direct/ pilot controlled</td>
</tr>
<tr>
<td>User interface</td>
<td>Proportional hydraulic joysticks and pressure gauges</td>
</tr>
<tr>
<td>Drilling control system type</td>
<td>Rock Pilot+</td>
</tr>
<tr>
<td>Antijamming system</td>
<td>For rotation standard and flushing optional</td>
</tr>
<tr>
<td>Collaring control</td>
<td>Stepless</td>
</tr>
<tr>
<td>Voltage</td>
<td>24 VDC</td>
</tr>
</tbody>
</table>

### DUST COLLECTOR

<table>
<thead>
<tr>
<th>Spec</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dust collector type</td>
<td>DC 810H</td>
</tr>
<tr>
<td>Capacity/vacuum</td>
<td>23 m³/min at 1 000 mm vacuum H₂O</td>
</tr>
<tr>
<td>Filter elements/material</td>
<td>13 pcs/fiber</td>
</tr>
<tr>
<td>Total filter surface</td>
<td>10.4 m²</td>
</tr>
<tr>
<td>Primary cyclone</td>
<td>Standard</td>
</tr>
<tr>
<td>Movable suction head</td>
<td>Standard</td>
</tr>
</tbody>
</table>

### CARRIER

<table>
<thead>
<tr>
<th>Spec</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track type</td>
<td>FL 6</td>
</tr>
<tr>
<td>Grouser plate width</td>
<td>310 mm</td>
</tr>
<tr>
<td>Ground contact length</td>
<td>2 590 mm</td>
</tr>
<tr>
<td>Ground pressure</td>
<td>0.81 kg/cm²</td>
</tr>
<tr>
<td>Ground clearance</td>
<td>440 mm</td>
</tr>
<tr>
<td>Turnable superstructure</td>
<td>120° / 180°</td>
</tr>
<tr>
<td>Oscillation angles</td>
<td>+/- 10°</td>
</tr>
<tr>
<td>Tramming force</td>
<td>121 Kn</td>
</tr>
<tr>
<td>Max. tramming speed</td>
<td>3.5 km/h</td>
</tr>
</tbody>
</table>
STANDARD COMPONENTS

1 pc Rock drill HL 650, hydraulic
1 pc Chain feed CF 145H with movable drill steel support
1 pc Rod handler RH 714 incl. 1 set of jaws
1 pc Boom DB 800, articulated
1 pc Carrier track mounted, turnable superstructure
1 pc Power pack diesel driven, hydraulic pumps and on-board compressor with twin pressure control
1 pc Hydraulic system load sensing and open center
1 pc Control system Rock Pilot+
1 pc Operator's cabin F.O.P.S. and R.O.P.S. with AC
1 pc Dust collection system DC 810 H, hydraulic, Primary separator
9 pcs Working lights
1 pc Gauge set for accumulator pressure checking
1 pc Back up alarm
1 Set Manuals, paper copy
1 Set Manuals, CD rom
Eu-safety devices

THE JAWS FOR DRILL STEELS

<table>
<thead>
<tr>
<th>DRILL STEEL TYPE</th>
<th>DRILL STEEL DIAMETER</th>
<th>RECOMMENDED HOLE DIAMETER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extension rods</td>
<td>38 mm 1 ½&quot;</td>
<td>64 - 70 mm 2 ½&quot; - 2 ¾&quot;</td>
</tr>
<tr>
<td>MF-rods</td>
<td>38 mm 1 ½&quot;</td>
<td>64 - 70 mm 2 ½&quot; - 2 ¾&quot;</td>
</tr>
<tr>
<td>Extension rods</td>
<td>45 mm 1 ¼&quot;</td>
<td>76 - 89 mm 3&quot; - 3 ½&quot;</td>
</tr>
<tr>
<td>MF-rods</td>
<td>45 mm 1 ¼&quot;</td>
<td>76 - 89 mm 3&quot; - 3 ½&quot;</td>
</tr>
<tr>
<td>MF-rods</td>
<td>51 mm 2&quot;</td>
<td>89 - 102 mm 3 ½&quot; - 4&quot;</td>
</tr>
<tr>
<td>Extension rods</td>
<td>51 mm 2&quot;</td>
<td>89 - 102 mm 3 ½&quot; - 4&quot;</td>
</tr>
</tbody>
</table>

SELECTION OF OPTIONS

- Alternative seat ISRI 6000
- Radio with CD-MP3 player
- Reversing camera
- Vacuum cleaner for cabin
- GPS aiming device for TIM and TiMi inclined holes
- Spirit level angle indicator
- TIM 5200 for vertical holes
- TIM 5300 for vertical holes and depth measuring
- TIM 6300 for inclined holes and depth measuring
- TIM 6500 for inclined holes, depth measuring and laser level
- TIM 6700 (TIM6500 with open interface)
- TiM3D hole navigation system
- Horizontal drilling kit including hose reel
- EN 16228 Safety cage for feed (includes hose reel)
- Hose reel (not with 14’ rods)
- Kit for alternative steels, each
- Thread greasing
- Full radio remote control with 5 gallon bucket
- Power extractor
- Readyness for Power Extractor
- Anti-freeze system for air lines
- Biogradeable hydraulic oil
- Central lubrication system Sandvik
- Electric fuel filling pump
- Fast fill connection for fuel Wiggins
- Guides for grousers, long
- Hydraulic rear ground support
- Hydraulic winch with radio remote and cable tightness automatics
- Hydraulic winch with full radio drilling, tramming boom and rod handling
- Led lights, 6 pcs
- Radio remote control for rear ground support, tramming and oscillation
- Full radio remote control for drilling,tramming,boom and rod handling
- Three bar grouser plates
- Towing hook
- Turnable superstructure 180 deg.
- Xenon lights, 6 pcs
- Fuel powered heater for engine and cabin
- Fuel powered heater for engine, cabin and water tank
- Readyness for fuel powered heater
- Dustmizer (engine heater option needed below freezing point)
- Flushing control automatics
- Sampling device
- Shut down of suction for water holes
- Water injection system
- Grinder Sandvik RG420H
- Extra manuals, price will be added according to pricing sheet
- First service kit for Ranger DX600
- Special tools for HL 710, HL650, field kit
- Special tools for HL 710, HL650, complete
- Service agreement - select level from extra item
- SanRemo - select level from extra item
COVERAGE AREA AND DIMENSIONS

DIMENSIONS

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>15 200 kg</td>
</tr>
<tr>
<td>Width</td>
<td>2.45 m</td>
</tr>
<tr>
<td>Height</td>
<td>a/b, 3.2 m/3.6 m</td>
</tr>
<tr>
<td>With safety cage</td>
<td>3.3 m/3.8 m</td>
</tr>
<tr>
<td>With noise silencer</td>
<td>3.3 m/4.0 m</td>
</tr>
<tr>
<td>Total length</td>
<td>11.3 m/8.4 m</td>
</tr>
</tbody>
</table>

Sandvik Mining and Rock Technology reserves the right to make changes to the information on this data sheet without prior notification to users. Please contact a Sandvik representative for clarification on specifications and options.

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