Specifications

Dimensions
Dipper payload 82 tonnes 90 tons
Dipper capacity 27.5-60.4 m³ 36-79 yd³
• Dependent on application and material density.

Weights*
Working weight, with dipper and standard links 1,295,777 kg 2,856,700 lb
Ballast (furnished by customer) 260,362 kg 574,000 lb
• These weights will vary slightly depending upon dipper and optional equipment selection.

*All specifications are based on a 32 m³ (42 yd³) dipper and standard 213.4 cm (84 in) treads.

Main Structures
Upper works overall width (including standard walkways) 13.5 m 44 ft 3 in

Crawler Dimensions
Overall width 213.4 cm (84 in) treads, standard 10 m 32 ft 9 in
Overall width 274.3 cm (108 in) treads 10.6 m 34 ft 9 in

Ground Bearing Pressure
Total effective bearing area 32.0 m² 343 ft²
213.4 cm (84 in) treads, standard 400 kPa 58 psi
Total effective bearing area 41 m² 442 ft²
274.3 cm (108 in) treads 316 kPa 46 psi
• Ground bearing pressure is dependent upon many factors.

Planetary Propel
• Dual-motor independent drive.

Main Structures (cont’d)
Swing
• Two planetary gearboxes, each driven by a vertically mounted motor, are located on either side of the revolving frame. Dual-output pinion shafts from each gearbox engage the swing rack.

Hoist
• A planetary gearbox with dual-output pinions provides the hoist torque transfer from the electric motor to the hoist drum gear.

Lube System
• Automatic, single-line system for open gear lubricant and grease.
• 6 pumps (4 for open gear lubricant and 2 for grease) located in an insulated, heated, double-walled lube room.
• External fastfill from lower level.

Electrical
Drive
• IGBT Acutrol drive system.

Power Requirements
Voltage 3 phase, 50/60 Hz, 7,200 V 60 Hz, 7,200 V
50 Hz 6,000 V, 6,600 V, 7,200 V, 11,000 V
Average power demand 832-1165 kW
Peak power 3330 kW
• Other voltage options available to suit customer requirements.
7495 HD Electric Rope Shovel

Front End

• One piece, forged, seamless tubular dipper handle and wide-spread boom point sheaves equipped with hoist ropes and dipper padlocks to stabilize dipper handle.

Rope Data

<table>
<thead>
<tr>
<th>No.</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hoist</td>
<td>70 mm (2.75 in)</td>
</tr>
<tr>
<td>Crowd</td>
<td>64 mm (2.5 in)</td>
</tr>
<tr>
<td>Retract</td>
<td>64 mm (2.5 in)</td>
</tr>
<tr>
<td>Boom suspension</td>
<td>83 mm (3.25 in)</td>
</tr>
<tr>
<td>Dipper trip</td>
<td>16 mm (0.625 in)</td>
</tr>
</tbody>
</table>

• High impact ropes available as an option.

Front End (cont’d)

Crowd

• Rope Crowd: the crowd machinery is located at the front center of the revolving frame; consisting of a motor, brake, drum and gearing. Plastic-impregnated crowd and retract ropes are used to move the dipper handle fore and aft.

Optimal Working Ranges*

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Meters</th>
<th>Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dumping height – with clearance to open dipper door</td>
<td>9.4</td>
<td>30 ft 10 in</td>
</tr>
<tr>
<td>2</td>
<td>Cutting height (maximum)</td>
<td>14.9</td>
<td>48 ft 9 in</td>
</tr>
<tr>
<td>3</td>
<td>Cutting radius (maximum)</td>
<td>22.8</td>
<td>74 ft 9 in</td>
</tr>
<tr>
<td>4</td>
<td>Radius of level floor</td>
<td>16.0</td>
<td>52 ft 4 in</td>
</tr>
<tr>
<td>5</td>
<td>Revolving frame tail swing radius</td>
<td>9.3</td>
<td>30 ft 8 in</td>
</tr>
</tbody>
</table>

Optimal working ranges based on loading a Cat® 793F truck.

*All specifications are based on a 32 m³ (42 yd³) dipper and standard 213.4 cm (84 in) treads.