Specifications

Dimensions
Dipper payload (Available dipper payloads up to 109 tonnes [120 tons] when specified) 109 tonnes 120 tons
Dipper capacity 30.6-62.7 m³ 40-82 yd³
• Dependent on application and material density.

Weights*
Working weight, with dipper and standard links 1 431 064 kg 3,155,000 lb
Ballast (furnished by customer) 302 614 kg 667,150 lb
• These weights will vary slightly depending upon dipper and optional equipment selection.
* All specifications are based on a 45 m³ (59 yd³) dipper and standard 317.5 cm (125 in) treads.

Main Structures
Upper works overall width (including standard walkways) 12.8 m 41 ft 11 in

Crawler Dimensions
Overall width 317.5 cm (125 in) treads, standard 12.73 m 41 ft 9 in

Ground Bearing Pressure
Total effective bearing area 317.5 cm (125 in) treads 57 m² 614 ft²
• Ground bearing pressure is dependent upon many factors.

Planetary Propel
• Dual-motor independent drive.

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.
• Six pumps (four for open gear lubricant and two for grease) located in an insulated, heated, double-walled lube room.
• External fast fill from lower level.

Electrical
Drive
• IGBT Acutrol drive system.

Power Requirements
Voltage 3 phase, 50/60 Hz, 7,200V
50 Hz 6,000V, 6,600V, 7,200V, 11,000V
60 Hz 7,200V, 13,800V
Average power demand 934-1308 kW
Peak power 3737 kW
• Other voltage options available to suit customer requirements.

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>2 70 mm (2.75 in)</td>
</tr>
<tr>
<td>Crowd</td>
<td>1 64 mm (2.5 in)</td>
</tr>
<tr>
<td>Retract</td>
<td>1 64 mm (2.5 in)</td>
</tr>
<tr>
<td>Boom suspension</td>
<td>4 83 mm (3.25 in)</td>
</tr>
<tr>
<td>Dipper trip</td>
<td>1 19 mm (0.75 in)</td>
</tr>
</tbody>
</table>
• High impact ropes available as an option.

Crowd
• Rope Crowd with crowd machinery located at the front center of the revolving frame, consisting of motor, brake, drum and gearing. Plastic-impregnated crowd and retract ropes are used to move the dipper handle fore and aft.
• (Optional) HydraCrowd™, hydraulic power skid, located at the front center of the revolving frame deck, powers a large hydraulic cylinder to move the dipper handle fore and aft.
**Dimensions** (All dimensions are approximate.)

<table>
<thead>
<tr>
<th></th>
<th>Meters (Approx.)</th>
<th>Feet (Approx.)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Optimal Working Ranges</strong>*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Dumping height – with clearance to open dipper door</td>
<td>9.0 m</td>
<td>29 ft 8 in</td>
</tr>
<tr>
<td>2 Cutting height (maximum)</td>
<td>16.8 m</td>
<td>55 ft 0 in</td>
</tr>
<tr>
<td>3 Cutting radius (maximum)</td>
<td>24.3 m</td>
<td>79 ft 8 in</td>
</tr>
<tr>
<td>4 Radius of level floor</td>
<td>17.0 m</td>
<td>55 ft 11 in</td>
</tr>
<tr>
<td>5 Revolving frame tail swing radius</td>
<td>9.3 m</td>
<td>30 ft 8 in</td>
</tr>
</tbody>
</table>

Optimal working ranges based on loading a Cat® 797F truck.

*All specifications are based on a 45 m³ (60 yd³) dipper and standard 317.5 cm (125 in) treads.