



Cat[®]

7495 HF

with HydraCrowd™

ELECTRIC ROPE SHOVEL

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 m ³	40-82 yd ³

- Dependent on application and material density.

Weights*

Working weight, with dipper and standard links	1 435 156 kg	3,164,000 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
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Crawler Dimensions

Overall width 317.5 cm (125 in) treads, standard	12.7 m	41 ft 9 in
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Ground Bearing Pressure

Total effective bearing area 317.5 cm (125 in) treads	57 m ²	614 ft ²
	248 kPa	36 psi

- 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	945-1322 kW
Peak power	3778 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

	No.	Diameter
Hoist	2	70 mm (2.75 in)
Boom suspension	4	83 mm (3.25 in)
Dipper trip	1	19 mm (0.75 in)

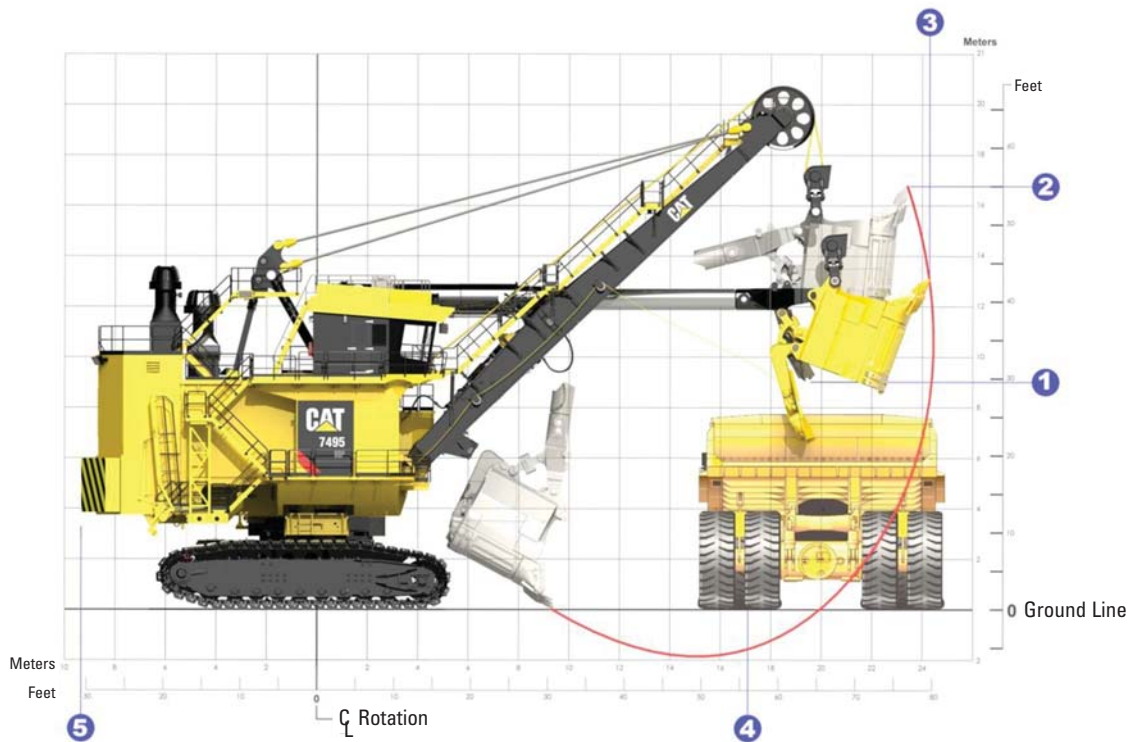
- High impact ropes available as an option.

Crowd

- 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.
- (Optional) Rope Crowd, the crowd machinery is 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.



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Dimensions (All dimensions are approximate.)

Optimal Working Ranges*

1 Dumping height – with clearance to open dipper door	9.0 m	29 ft 7 in
2 Cutting height (maximum)	16.8 m	55 ft 0 in
3 Cutting radius (maximum)	24.3 m	79 ft 8 in
4 Radius of level floor	17.0 m	55 ft 11 in
5 Revolving frame tail swing radius	9.3 m	30 ft 8 in

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

*All specifications are based on a 45 m³ (59 yd³) dipper and standard 317.5 cm (125 in) treads.

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

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