



# Cat<sup>®</sup> 7495 HD

## ELECTRIC ROPE SHOVEL

### Specifications

#### Dimensions

Dipper payload	82 tonnes	90 tons
Dipper capacity	27.5-60.4 m <sup>3</sup>	36-79 yd <sup>3</sup>

- 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 m<sup>3</sup> (42 yd<sup>3</sup>) 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
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#### 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 213.4 cm (84 in) treads, standard	32.0 m <sup>2</sup>	343 ft <sup>2</sup>
	400 kPa	58 psi
Total effective bearing area 274.3 cm (108 in) treads	41 m <sup>2</sup>	442 ft <sup>2</sup>
	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, 7,200V
50 Hz	6,000V, 6,600V, 7,200V, 11,000V
60 Hz	7,200V
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

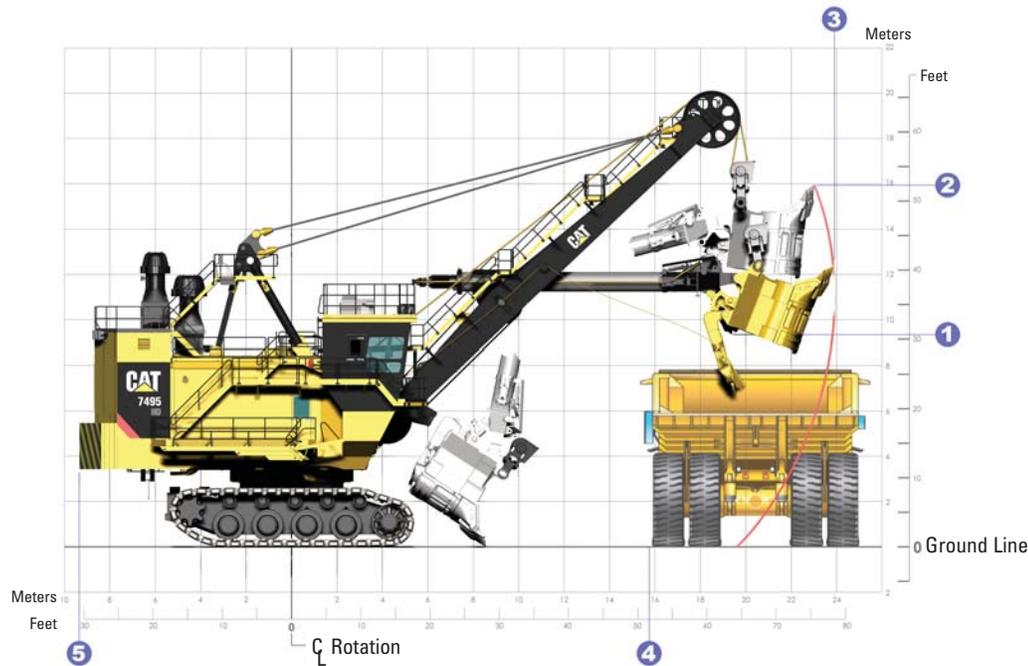
	No.	Diameter
Hoist	2	70 mm (2.75 in)
Crowd	1	64 mm (2.5 in)
Retract	1	64 mm (2.5 in)
Boom suspension	4	83 mm (3.25 in)
Dipper trip	1	16 mm (0.625 in)

- 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\*

1 Dumping height – with clearance to open dipper door	9.4 m	30 ft 10 in
2 Cutting height (maximum)	14.9 m	48 ft 9 in
3 Cutting radius (maximum)	22.8 m	74 ft 9 in
4 Radius of level floor	16.0 m	52 ft 4 in
5 Revolving frame tail swing radius	9.3 m	30 ft 8 in

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

\*All specifications are based on a 32 m<sup>3</sup> (42 yd<sup>3</sup>) dipper and standard 213.4 cm (84 in) treads.

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