



# Cat<sup>®</sup> 7295

## ELECTRIC ROPE SHOVEL

### Specifications

#### Dimensions

Dipper payload	45 tonnes	50 tons
Dipper capacity	19.1-38.2 m <sup>3</sup>	25-50 yd <sup>3</sup>

- Dependent on application and material density.

#### Weights\*

Working weight, with dipper and standard links	793 259 kg	1,748,837 lb
Ballast (furnished by customer)	159 665 kg	352,000 lb

- These weights will vary slightly depending upon dipper and optional equipment selection.

\*All specifications are based on a 19 m<sup>3</sup> (25 yd<sup>3</sup>) dipper and standard 182.9 cm (72 in) treads.

#### Main Structures

Upper works overall width (including standard walkways)	12.6 m	41 ft 4 in
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#### Crawler Dimensions

Overall width 182.9 cm (72 in) treads, standard	8.6 m	28 ft 4 in
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#### Ground Bearing Pressure

Total effective bearing area	29.3 m <sup>2</sup>	315.6 ft <sup>2</sup>
182.9 cm (72 in) treads	269 kPa	39 psi

- Ground bearing pressure is dependent upon many factors.

#### Planetary Propel

- Dual-motor independent drive.

#### Main Structures (cont'd)

##### Swing

- Parallel shaft gear cases, driven by a vertically mounted motor, are located on either side of the revolving frame.

##### Hoist

- A motor coupled to two gear reductions drives a 137 cm (54 in) hoist drum.

#### 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 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
60 Hz	4,160V, 7,200V
Average power demand	538-753 kW
Peak power	2152 kW

- Other voltages available to suit customer requirements.

# 7295 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.

### Standard Rope Data

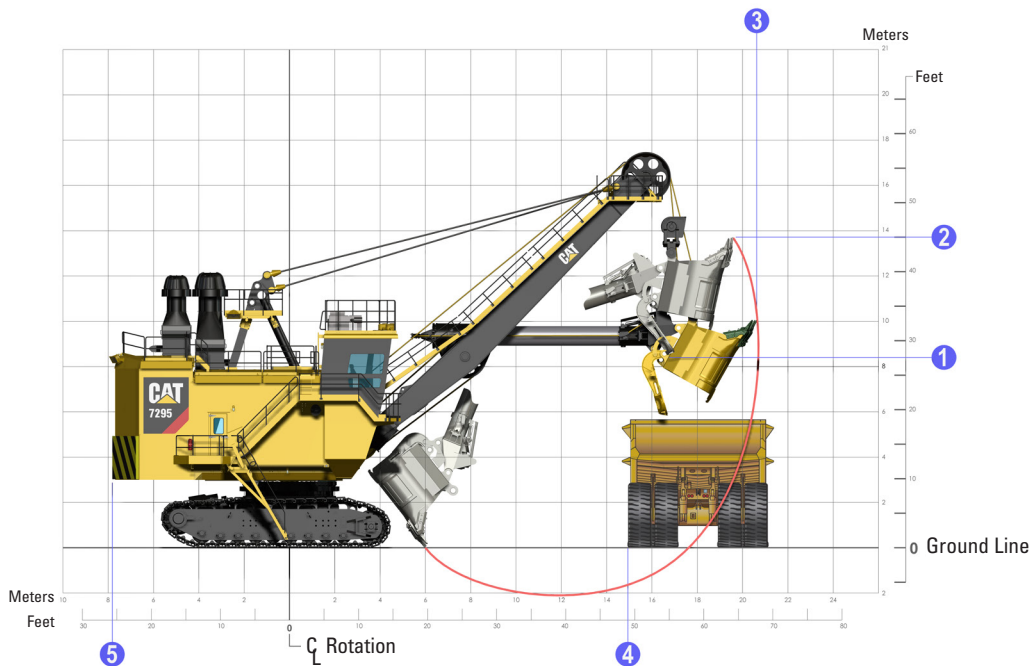
	No.	Diameter
Hoist	2	60 mm (2.375 in)
Crowd	1	57 mm (2.25 in)
Retract	1	57 mm (2.25 in)
Boom susp.	4	70 mm (2.75 in)
Dipper trip	1	16 mm (0.625 in)

- 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	8.4 m	27 ft 8 in
2 Cutting height (maximum)	13.7 m	45 ft 0 in
3 Cutting radius (maximum)	20.6 m	67 ft 8 in
4 Radius of level floor	14.9 m	48 ft 11 in
5 Revolving frame tail swing radius	7.8 m	25 ft 8 in

Optimal working ranges based on loading a Cat® 785D truck.

\*All specifications are based on a 19 m<sup>3</sup> (25 yd<sup>3</sup>) dipper and standard 182.9 cm (72 in) treads.

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