



Cat[®] 7395

ELECTRIC ROPE SHOVEL

Specifications

Dimensions

Dipper payload	63.5 tonnes	70 tons
Dipper capacity	19.1-61.2 m ³	25-80 yd ³
Length of boom	19.51 m	64 ft 0 in
Effective length of dipper handle	10.9 m	35 ft 10 in
Overall length of dipper handle	14.3 m	47 ft 0 in

Weights

Working weight, with dipper and standard links	1 288 656 kg	2,841,000 lb
Net weight, domestic, without ballast or dipper	966 832 kg	2,131,500 lb
General purpose dipper 32.1 m ³ (42 yd ³)	61 462 kg	135,500 lb
Ballast (furnished by customer)	260 362 kg	574,000 lb

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

Main Structures

Crawler Mounting

Overall width 213.36 cm (84 in) treads, standard	9.98 m	32 ft 9 in
Overall width 274.32 cm (108 in) treads	10.44 m	34 ft 3 in
Overall length of mounting	10.41 m	34 ft 2 in
Total effective bearing area (213.36 cm/84 in treads)	32 m ²	344 ft ²
	395 kPa	57.4 psi
Total effective bearing area (274.32 cm/108 in treads)	41 m ²	442.3 ft ²
	308 kPa	44.6 psi
Number and diameter of rollers		
Upper (10)	60.96 cm	24 in
Lower (8)	139.70 cm	55 in
Take-up tumblers diameter	157.48 cm	62 in
Number and pitch of treads (74)	61.91 cm	24.375 in

Planetary Propel

- Dual motor independent drive.

Revolving Frame (Center Section)

Welded, impact-resistant steel		
Length	8.38 m	27 ft 6 in
Width	4.29 m	14 ft 1 in

Main Structures (cont'd)

Turntable

Forged rim alloy steel swing rack pitch diameter	5.18 m	17 ft
Teeth external cut (face)	24.13 cm	9.5 in
Tapered, forged alloy steel roller rails diameter	4.5 m	14 ft 9 in
Number of tapered rollers	56	
Tapered rollers diameter	20.96 cm	8.25 in

Swing

- Two planetary gearboxes, each driven by a vertically mounted motor, are mounted 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

- Single-line system applies lubricant and grease via the PLC.
- 6 pumps (4 for lubricant and 2 for grease) located in an insulated, double-walled lube room.

Electrical

Drive

- IGBT Acutrol drive system.

Power Requirements

Voltage	3 phase, 50/60 Hz, 7,200V
Average 15-minute demand	777-1087 kW
Peak power	3106 kW

- Other voltages available to suit customer requirements.

Distribution System Requirements

Machine on separate system	3500 kVA
Machine on large system	2000 kVA

Main Electrical Systems

System voltage (nominal)	50/60 Hz, 7,200V
Trail cable (furnished by customer)	SHD-3-#1/0 at 8,000V
Transformer, auxiliary	350 kVA, 7,200V primary
Lighting transformer	25 kVA, 120/240V secondary

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Lights

- HPS lights on boom feet, top of A-frame, machinery house, lube room, control room, utility room and flood lights.
- Incandescent lights on ground lights, walkways and operator's cab.

Front End

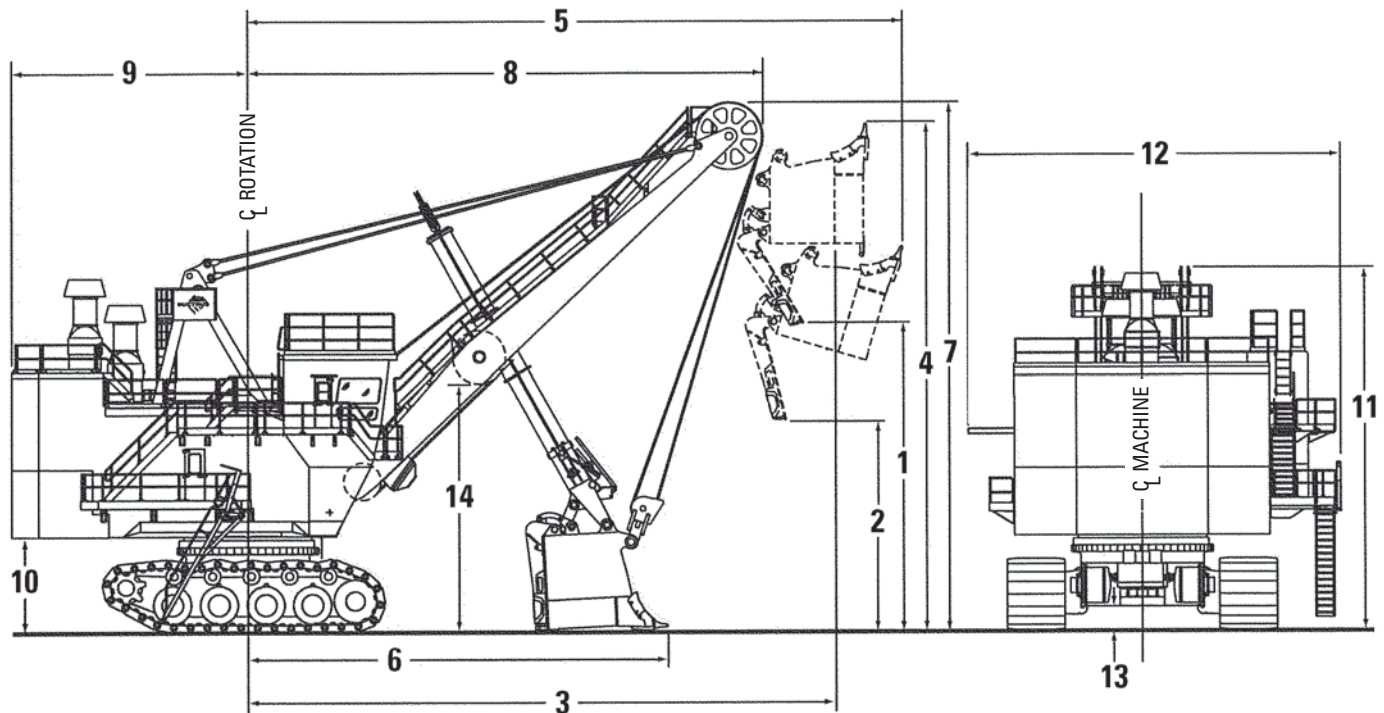
Boom

Boom	welded, impact-resistant steel	
Boom point sheaves	twin-grooved, flame-hardened	
Boom point sheave diameters	2.43 m	8 ft
Handle diameter	86.36 cm	34 in
Wall thickness (nominal)	7.62 cm	3 in

Front End (cont'd)

Rope Data

	No.	Diameter	Type	Construction
Hoist	2	69.8 mm (2.75 in)	twin dual	8 × 37
Crowd	1	63.5 mm (2.5 in)	single dual	8 × 37
Retract	1	63.5 mm (2.5 in)	single dual	8 × 37
Boom susp.	4	82.6 mm (3.25 in)	equalized	struct. strand
Dipper trip	1	15.9 mm (0.625 in)	single	7 × 25



Optimal Working Ranges

1 Dumping height	10.0 m	32 ft 11 in	8 Clearance radius (boom point sheaves)	19.05 m	62 ft 6 in
2 Dumping height at maximum electric crowd limit	7.91 m	25 ft 11 in	9 Clearance radius (revolving frame)	8.67 m	28 ft 5 in
3 Dumping radius (maximum)	20.5 m	67 ft 2 in	10 Clearance under frame (to ground)	3.45 m	11 ft 4 in
4 Cutting height (maximum)	16.7 m	54 ft 11 in	11 Height of A-frame	13.3 m	43 ft 8 in
5 Cutting radius (maximum)	23.3 m	76 ft 5 in	12 Overall width	13.01 m	42 ft 8 in
6 Radius of level floor	15.4 m	50 ft 6 in	13 Clearance under lowest point in truck frame/propel gearcase	0.86 m	2 ft 10 in
7 Clearance height (boom point sheaves)	19.5 m	63 ft 11 in	14 Operator's eye level	8.64 m	28 ft 4 in

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