

## Mud Cat™ 40E - Electric Dredge

### GENERAL

Length (O.A.):	24 ft - 3 in (7.4 m)
Operational Width (O.A.):	8 ft - 4 in (2.5 m)
Transport Width:	7 ft - 6 in (2.3m)
Height (O.A.):	6 ft - 10 in (2.1 m)
Weight:	5,800 lbs. (2,630 kg) dry
Draft:	16 in (0.4 m)

### FLOATATION

Pontoons:	Two 28 in diameter x 20 ft (0.7 m diameter x 6.1 m) 10 gauge (3.4 mm) steel
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### CUTTER ASSEMBLY

Mud Shield:	Semi-enclosed; anti-turbidity
Drive System:	Two (2) low speed, high torque motors
Auger Diameter:	10.5 in (267 mm) without cutter knives 15-7/8 in (403 mm) with cutter knives
Auger Pitch:	9 in (228 mm)
Auger Flighting:	3/8 in (9.5 mm)
Speed:	Fixed at 60 RPM
Cutter Knives:	Detachable heat-treated blades
Auger Torque:	3,600 in-lbs. (407 N-m)

### WORKING CAPACITY

Cut:	7 ft-6 in (2.3 m) wide
Operating Depth:	14 ft (4.3 m) - Extensions available upon request

### SLURRY PUMP

Electric driven 40 HP (30 kW) submersible slurry pump with high chrome 450 Brinell volute and impeller. (Other material options available.)	
Centrifugal Vortex Impeller:	Max solids diameter 4 in (101.6 mm)
Suction Diameter:	6 in (152.4 mm)
Discharge Diameter:	6 in (152.4 mm)
Nominal Pump Performance:	900 GPM (204 m <sup>3</sup> /hr) against 50 ft (15.2 m) head Up to 56 yds <sup>3</sup> /hr (42 m <sup>3</sup> /hr) of production at 30% solids content. Results may vary.

### PROPULSION

Double sheave hydraulic-driven winch 10 in (254 mm)	
Traverse Speed:	0 - 30 FPM (0 - 9.4 m/min) maximum forward & reverse
Average Cutting Speed:	8 - 12 FPM (2.4 - 3.7 m/min)
Wire Rope Diameter:	3/8 in (9.5 mm)

### LADDER HOIST

Hydraulic winch with a maximum line pull of 4,000 lbs (17.8 kN) first layer

### HYDRAULIC POWER UNIT

10 HP (7.5 kW) electrical-driven hydraulic power unit	
30 gallons (110 liters) at full mark	
Circuit One:	Auger, Travel, and Hoist Winch

### CONTROL SYSTEM

Wireless Radio Remote Control:	
• Slurry Pump - On / Speed	• Hoist - Up / Off / Down
• Auger - On	• Travel - Fwd / Off / Reverse / Speed

### ELECTRICAL SYSTEM

Electrical Requirement:	460 V - 3 Phase - 60 Hz - 82 FLA (standard) 380 V - 3 Phase - 50 Hz - 103 FLA (optional)
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### RADIO REMOTE SENSE™

EDT has designed the Mud Cat™ product line to allow for remote control of the dredging operation via a portable hand-held transmitter called RADIO REMOTE SENSE™ (RMS). RMS controls the following functions: power on/off, travel direction and speed, slurry pump on/off and speed (if equipped with VFD), auger on/off and dredging depth. The hand-held transmitter may be operated up to 1,000 feet from the dredging unit. Current operating functions of the system will be indicated via a dredge mounted five-color light tree.



### BOTTOM SENSE™

EDT's BOTTOM SENSE™ system is designed to protect a pond's subsurface or liner. This feature allows the dredge to automatically raise the auger when the bottom is contacted and lower the auger when the bottom is not present, thereby maximizing production rates while preserving the subsurface integrity by following the bottom contours of the pond.

