

Skamp Industries, Inc.

ET 2500 Electric Tow Tractor

2,500 lbs. Maximum Draw Bar Pull Capacity

1,100 Lbs. Continuous Draw Bar Capacity



TOWS LOADS ON CARTS WEIGHING UP TO 50,000 POUNDS
COMPACT MANEUVERABLE SIZE
HEAVY DUTY CONSTRUCTION
650-AMPERE CONTROLLER
12-VOLT ACCESSORIES
48-VOLT MOTOR

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Features



A powerful compact design makes the ET 1800 stand apart from its competition. Its compact size: 39.5 inches wide by 76 inches long along with a short turning radius of 86 inches give it the ability to turn around in a 15 foot wide aisle. In spite of its compact size, the ET 1800 has the capacity to pull loads on wheels weighing up to 50,000 pounds.

A molded seat with four inches of adjustment and ample foot room insure operator comfort. The swing up seat deck permits access to the battery.

Performance Data:

<u>Draw Bar Pull</u>	<u>Speed</u>	<u>**Towed Load</u>
No Load	Adjustable to 12 MPH	-----
2500 lbs. (Maximum)	-----	-----
1100 lbs. (Continuous)	3.0 MPH	50,000 lbs.

**Based on a towed load with a starting resistance of 40 lbs. per 1000 lbs. of gross weight and a coefficient of friction of 0.9. Continuous resistance is based on 20 lbs. per thousand of gross weight.

Drive Motor



The 48-volt series wound traction motor used in the ET 1800 tow tractor is manufactured in the United States by Advanced DC Motors, Inc. This 9-inch diameter drive motor is rated at 18.2 horsepower @ 1500 RPM.

Drive Motor/Axle Assembly



The drive motor is coupled to a 9-inch differential axle with a Morse silent chain drive running in oil. This rugged axle features a high-speed spiral bevel geared differential with semi-floating axle shafts and tapered roller bearings for quiet reliable operation. The heavy-duty drive axle/motor assembly is mounted into the truck on leaf springs for a comfortable shock free ride.

Brakes



Heavy-duty hydraulic two wheel self-adjusting 10-inch diameter disk brakes at the drive wheels. The hand lever parking control operates the parking brakes independent of the pedal system. The parking brake is also self-adjusting.

Steering



A rugged steer axle with inclined king pins and axle caster improves tracking and turning characteristics. A 15-inch steering wheel with center horn button controls a circulating ball rack and pinion steering gear.

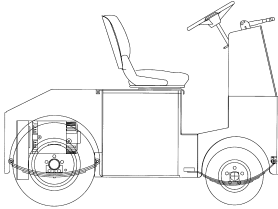
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Wheels & Tires



Rugged solid pneumatic tires are standard equipment. Drive tires are 650 X 10 and steer wheels are 400 X 8.

Suspension



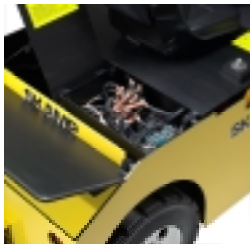
Front and rear leaf spring suspension provides a smooth comfortable ride. Along with driver comfort, electrical components are protected from shock loading which could lead to failures and down time.

Frame



A heavy one-piece welded structure with 0.38 inch thick to 0.50 inch thick panels with a 1.0 inch thick front bumper is used in the construction of this vehicle. The battery compartment measures 38.75" W X 21.5" L X 23" H. Access to service unit is excellent due to lift off floor boards, a removable rear panel and a swing up cover over the traction controller.

Electrical



A Sevcon 48-volt, 650-ampere controller using MOFSET technology is used for higher efficiency due to low switching losses. Microprocessor logic allows for more adaptability and safety, based on the operator's needs. Some of these features are:

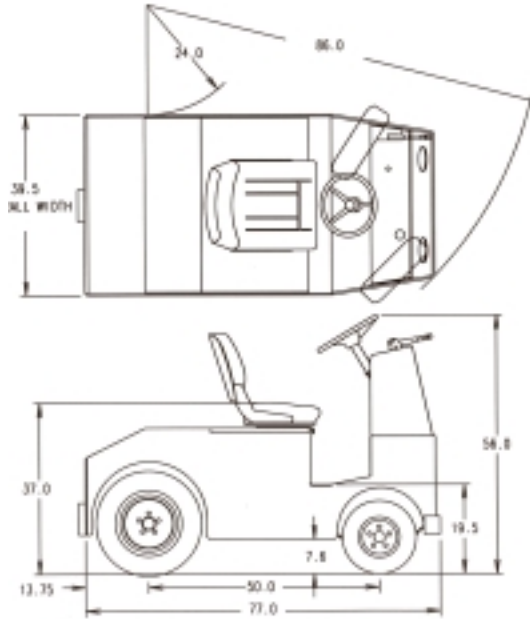
- Adjustable travel speeds
- Adjustable acceleration
- Low Voltage protection
- Anti-roll back on ramps
- Regen-Braking to charge battery.

A diagnostic port for a calibrator unit on each unit is used to adjust controller settings. A calibrator tool is available to customers from our parts book.

Other standard features included are:

- 12-volt converter for accessories.
- Headlights and stop/tail-lights.
- Combination hour meter/battery discharge meter to monitor the tractor's electrical systems.
- Master disconnect is located next to operator to shut down all electrical circuits in an emergency.
- Warning light for high drive motor temperatures.
- On-off key switch for truck security.
- Sealed solid-state accelerator control.

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Insurance Classification:

Designed to meet Underwriters Laboratories requirements for Type E industrial trucks.

Note: Production driveline components may vary in output or efficiency by +/-5%. The performance shown represents nominal values obtained under typical conditions.



ET 1800 SPECIFICATIONS

Traction Motor	9 Inch Diameter
Motor Type	DC Series Wound
Controller Type	Sevcon Solid State
Controller Rating	650 Amps
Motor Voltage	48 Volt
Rated Motor Torque	62.5 Ft-Lbs
Rated Motor RPM	1500 RPM
Transmission	Enclosed Silent Chain
Final Drive	9 inch Hypoid Differential
Brakes	10 inch Disk Brakes
Steering	Circulating Ball Rack & Pinion
Suspension	Front & Rear Leaf Springs



General Data:

Maximum Draw Bar Pull	2,500 lbs.
Continuous Draw Bar Pull	1,100 lbs.
Towed Load	50,000 lbs.
Battery Compartment Size	38.75"W x 21.5"L x 23"H
Unladen Speed	Adjustable to 14 MPH

Weights:

Service Weight (w battery)	4300 lbs.
Service Weight (w/o battery)	2282 lbs.

Battery

Model	24-D85-13
Voltage	48 volts
Ampere Hours	510
Kilowatt Hours	23.7
Weight	2038 lbs.



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