



**AC Electric
Tow
Tractors**



Note: Shown with Optional Over Head Guard, & Grammer Seat.

SERIES 700AC

<u>36 Volt Model</u>	<u>48 Volt Model</u>	<u>80 Volt Model</u>
Model 731AC	Model 732AC	Model 734AC
Model 741AC	Model 742AC	Model 744AC
Model 751AC	Model 752AC	Model 754AC

All of our Tow Tractors complies with ANSI B56.9 Standards.

MODEL	DRAW BAR PULL		VOLTS	WEIGHT WITHOUT BATTERY	
	POUNDS	NEWTON'S		POUNDS	KILOGRAMS
731AC/732AC/734AC	3,000	13,345	36/48/80	3,260	1,479
741AC/742AC/744AC	4,000	17,793	36/48/80	3,760	1,706
751AC/752AC/754AC	5,000	22,242	36/48/80	4,180	1,900

Drawbar pull is the ultimate start up pull on dry, freshly swept concrete, and on a level surface. Note this unit in 80 volt can handle most ramp or incline applications, and braking will not be an issue due to regenerative breaking, but please consult the factory prior to quoting.



This unit was designed with the same durability and trust you would expect from an A&G Mercury Tow Tractor, with the latest technology and ergonomics. It is equipped with "Standard" components for the operator's maximum comfort and ease. Which include power steering, tilt/telescoping steering column, lower battery center of gravity, and lower step in height.

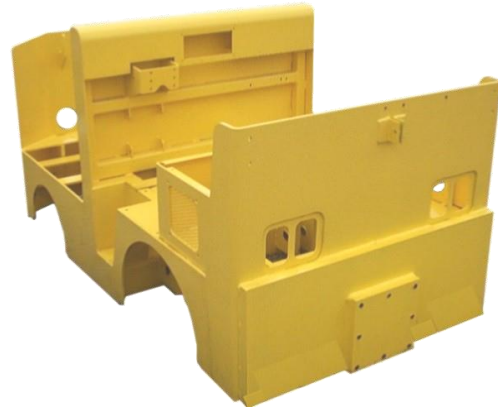
All Mercury tow tractors feature a one piece welded frame designed to protect components through a long service life, with reinforcement at high stress areas.

Leaf spring suspension, on both steer and drive axles, with bronze bushings is a feature unique to A & G Mercury tow tractors, which provides a smooth ride and reduces shock loads to the steering system as well as to the operator. The tough, solid steel beam Steer Axle is built to withstand long hours of service.

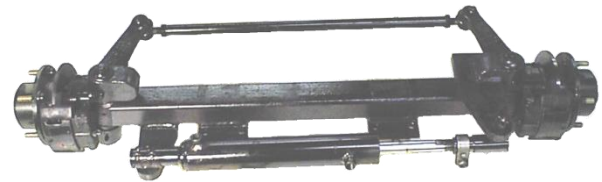
The Danaher Inverter is standard equipment on the Model 700AC series. The Danaher Inverter combines the reliability of high efficiency power MOSFET control with the added flexibility of microprocessor technology to provide smooth durable and customized control. The Danaher motor inverter offers many safety and performance features resulting in direct cost savings benefits to your operation. Smart full time diagnostics, battery condition monitoring, and completely cold contactor switching are just some of features that ensure a safe truck as well as reduced maintenance cost.



Showing Operators Compartment with Standard Tilt/Telescoping Steering Column.



One Piece Welded Frame



Leaf Spring Suspension Steer Axle



Heavy duty drive axle (The drive motor is coaxial with drive axle) with internal wet disc brake.

Standard Features and Options

ELECTRICAL

AC DRIVE MOTOR

Heavy duty Schabmuller Asynchronous Motor. The motor can either be supplied with a 36/48/80 Volt Depending on Model of Truck that is ordered. This motor has 26.80 hp (20 KW) and 291 ft-lb (390 Nm) of torque. This motor is rated at S2 for 60 Minutes (This is a European standard equivalent to USA standard Class H).

CONTROL PANEL

The Danaher AC MOSFET motor controller is the standard Inverter. The Danaher uses MOSFET technology with cold contactor switching, which will give extended battery, contactor tip and motor life which will give years of dependable service. Only a Line contactor and Pump Contactor are required, forward & reverse contactors are not required.

TRAVEL CONTROL

Foot operator accelerator and hand operated directional control.

LIGHTING

The Model 700AC has headlights and stop/tail lights as standard equipment which all run on 12 volt DC optimizing a DC-DC converter with isolated ground.

INSTRUMENT PANEL

Hour meter, battery indicator, maintenance indicator all in one meter, key switch, and light switch.

DRIVE AXLE

Maintenance free axle offers a cutting edge design on technology. Designed as a rigid double planetary axle with an integrated motor. The G.A.W. rating is 17,160 lbs. (7,800 kg). Suspension has silent bushings on front for pivot mounting, and leaf spring in rear for smoother ride. This axle is supplied with a over all ratio of 20.16:1.

STEER AXLE

Fabricated solid beam type, and inclined king pins with needle bearings. Also equipped with a hydraulic cylinder for better steering control. With a 16" (406 mm) diameter steering wheel.

SERVICE BRAKES

The drive axle has hydraulic wet disk brakes, sealed and oil lubricated.

PARKING BRAKE

The parking brake is integrated with the hydraulic wet disk brake on the drive axle, and is applied with hand lever.

TRAVEL SPEED

The travel speed is adjustable from 0 to 10 mph (16.15 kmph) at 2190 rpm motor speed with a drive axle ratio of 20.16:1. Higher travel speeds are available upon request.

TIRES

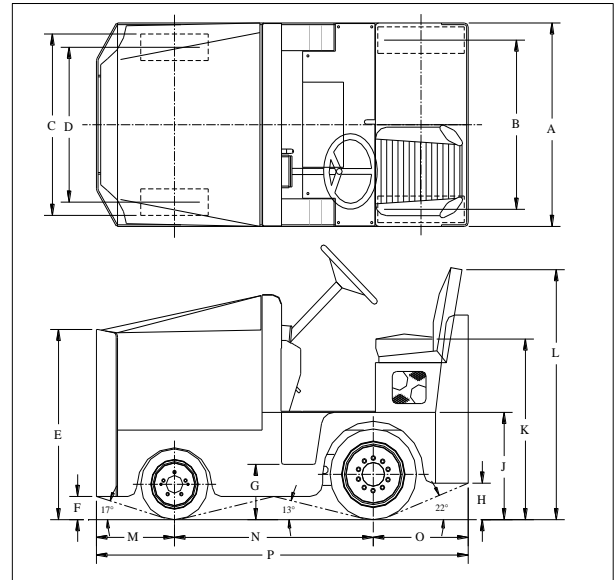
Front: 16.25" (413mm) x 6" (152mm) Solid Cushion.

Rear: 21" (533 mm) x 6" (152 mm) Solid Cushion.

OPTIONAL EQUIPMENT

- Deluxe Cab
- Over Head Guard
- Front Wheel Disk Brakes (4 Wheel Brakes)
- Backup Alarm
- Amber Strobe Light
- Grammer Suspension Seat (Vinyl/Cloth)
- Rebound Suspension Seat
- Solid Pneumatic Tires (On rear only)
- Pintle Hitch
- Mercury Jaw Hitch
- Rose ZB98 (Modified)
- Rose ZB98 (Modified) with quick release
- BX51 Eye Hitch
- Lever Hitch Release
- Nylon Slides for Side Battery Extraction
- Battery Rollers for Side Battery Extraction
- Passenger Seat
- Programmable Maintenance Timer

DIMENSIONS, MODEL 700AC		
CODE	INCHES	MM
A	46	1,168
B	38.25	972
C	44	1,118
D	38	965
E	43	1,092
F	5.25	133
G	12.5	318
H	8.25	210
J	24.25	616
K	40.75	1,035
L	56.5	1,435
M	18.5	470
N	47.13	1197
O	22.5	572
P	88.13	2,239



Outside Turning Radius: 95" (2413 mm)
 Intersecting Aisle: 70" (1778 mm)
 Standard Hitch Height: 12" (305 mm)

BATTERY COMPARTMENT		
LENGTH	WIDTH	HEIGHT
40.75" (1,035 mm)	31.75" (806.5 mm)	25.75" (654 mm)

Specifications subject to change without notice.

Recommended Battery: Minimum 500 amp/hr.



Note: Shown with Optional Over Head Guard, & Grammer Seat.



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