

# TUG TECHNOLOGIES

**Providing Ground Support  
Solutions Worldwide**



Model shown above includes additional options.

## **TUG Model M1A Ramp Tractor**

The low profile of this tow tractor ensures greater visibility both fore and aft for safe operation. Like the MA series, the M1A has drawbar pull ranging from 3,000 to 6,000 pounds (1,362 to 2,722 kg) and all models can be equipped with gasoline, diesel or LPG fueled engines. Other features include four-wheel suspension and disc brakes, power steering and uni-body frame construction. An enclosed cabin and other options are also available.

**Equipment Sales**  
Tel: (770) 422-7230  
Fax: (770) 428-7315

**Parts Sales**  
Tel: (800) 989-8499  
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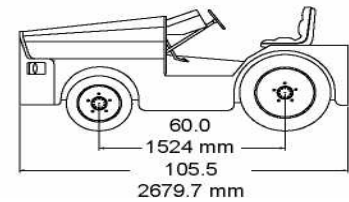
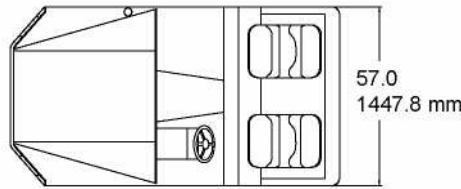
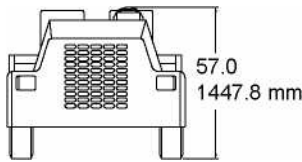
**Online**  
[www.tugtech.com](http://www.tugtech.com)

*Standard features include:*

- Recessed headlights
- Combination tail and stop lights
- Power boosted disc brake system
- Automatic transmission
- Seat belts
- Non-slip surface on floor boards
- Non-slip surface on brake pedal
- Power steering
- Four-wheel disc brakes
- Split braking systems
- Front, rear & side reflectors



*If it doesn't say TUG, it's not TUG TUFF*



## Specifications

## Model M1A

## Low Profile Tractor

### Dimensions

Length excluding coupler	105.5" (2679.7 mm)
Width	57" (1447.8 mm)
Height less cab	57" (1447.8 mm)
Height with cab	72" (1828.8 mm)
Wheelbase	60" (1524.0 mm)
Minimum ground clearance	6" (152.4 mm)
Turning radius	130" (3302 mm)
Maximum governed speed	15 mph (24.14 kph)

### Drawbar Pull by Model

Model	Drawbar Pull	GVW
M1A30	3000 lb (1362 kg)	3750lb (1701 kg)
M1A40	4000lb (1816 kg)	5000lb (2268 kg)
M1A50	5000 lb (2268 kg)	6250lb (2835 kg)
M1A60	6000 lb (2722 kg)	7500lb (3402 kg)

### Engine Options

#### Ford DSG-425 EFI Gasoline

Type	Water-cooled, EFI, 4 Cylinder
Fuel	Gas
Displacement	153 CID (2.5L)
Governed rpm with full load	2600
Net brake hp at governed rpm	69 (52 kW)
Torque at 2400 rpm	143 lb ft (194 Nm)

#### Deutz D2011L04 Diesel

Type	Oil-cooled, direct injected in-line, 4 cylinder
Fuel	Diesel or Jet A
Displacement	189 CID (3.1 L)
Governed rpm with full load	2500
Net brake hp at governed rpm	49 (36.5 kW)
Torque at 1700 rpm	140 lb ft (190 Nm)

### Perkins 1104C-44 Diesel

Type	Water-cooled, direct injected, in-line, 4 cylinder
Fuel	Diesel or Jet A (with additive)
Displacement	269 CID (4.4 L)
Governed rpm with full load	2400
Net brake hp at governed rpm	86 (64kW)
Torque at 1400 rpm	222 lb ft (302 Nm)

### Transmission

Type	Ford industrial 3-speed automatic with torque converter
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### Drive Axle

Type	Heavy duty 6,000-lb capacity axle with drop box
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### Drive Shaft

Type	Double-universal, sliding spline coupling
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### Electrical System

Type	12 V, negative ground
Alternator	91 A

### Cooling System

Engine	15-quart (14.2 L) heavy-duty radiator and fan
Transmission	Radiator cooled

### Fuel System

Fuel Cell Capacity	12 U.S. gal (45.43 L)
Construction	Stainless steel
Fuel options	Gasoline, diesel or LP

### Brakes

Service	4-wheel disc with hydraulic power assist and dual master cylinder
Parking	Lever-operated drum type

### Steering System

Type	Power steering
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### Suspension

Front	Leaf springs
Rear	Coil springs

### Tires (M1A30-50)

Front	6.9 x 9
Rear	8.0 x 16.5 TT

### Tires (M1A60)

Front	6.9 x 9
Rear	8.75 x 16.5 TT

### Hitch

Standard "E" hitch	Other options available
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### Instruments

**Diesel Powered**  
Water temperature, oil pressure, voltmeter, hour meter

#### Gasoline Powered

Hour meter  
Engine Performance Module (EPM) Indicator light

### Partial List of Options

Cab  
Overhead guard  
Backup alarm  
Charlyn hydraulic steering  
Additional hitches to fit customer specifications  
Others available upon request



#### Equipment Sales

1995 Duncan Dr. • Kennesaw, GA 30144 USA  
Tel: (770) 422-7230 • Fax: (770) 428-8315  
[www.tugtech.com](http://www.tugtech.com)

#### TUG Genuine Parts

TUG Parts: (800) 989-8499 • (770) 422-8021  
Fax (770) 422-8730  
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