



|                            |  |
|----------------------------|--|
| <b>Product Name</b>        | TUG Mfg-M1A30  |
| <b>Price</b>               | Available upon request   |
| <b>Brief Description</b>   | <p>TUG Mfg-M1A30 Low Profile Tractor</p> <p>Engine: Deutz Perkins 4M2011 Diesel Engine<br/> Inspected and repaired as needed<br/> Transmission: Ford C6 Auto Transmission<br/> Axle, differential brakes and steering inspected and repaired as needed<br/> Body sanded and painted<br/> All new tires, batteries, seats, starter and alternator</p> <p>Optional:<br/> With cab and vinyl door</p> <p>Location: Miami, FL.</p> |
| <b>Year of Manufacture</b> | 2004 / 2012  |

# 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  
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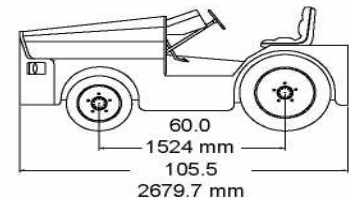
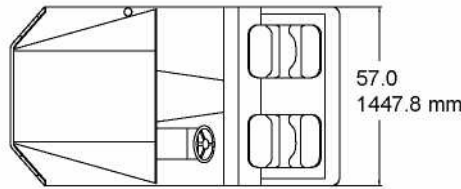
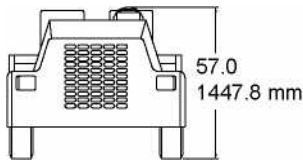
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[www.tugtech.com](http://www.tugtech.com)

*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 |
|-----------|---|

### Drive Axle

|           |   |
|-----------|---|
| Type..... | Heavy duty 6,000-lb capacity axle with drop box |
|-----------|---|

### Drive Shaft

|           |   |
|-----------|---|
| Type..... | Double-universal, sliding spline coupling |
|-----------|---|

### 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 |
|------------|----------------|

### 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 |
|-------------------------|-------------------------|

### 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

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#### TUG Genuine Parts

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