

# TUG TECHNOLOGIES

## Providing Ground Support Solutions Worldwide



Model shown above includes additional options.

## Model 660 Mobile Belt Loader

With the heaviest chassis in its class, the TUG 660 belt loader assures years of dependable service in the most demanding ramp applications. The central mounted conveyor is elevated at both ends by lift arms that are activated by single-stage, double-acting cylinders. The front of the conveyor operates at heights between 40 and 170 inches (1.02 and 4.32 m) while the height at the rear of the unit can be adjusted between 13 and 37 inches (0.33 and 0.94 m). The unit is equipped with belt controls operable from either end of the conveyor and an interlock prevents the engine throttle from being advanced for adjustment of belt speed unless the Direction Control is in neutral. A guide on each side of the conveyor assembly can be retracted if a clear conveyor surface is required. A collapsible safety rail is fitted on the side of the conveyor and an emergency hydraulic pump is standard equipment.

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

**Parts Sales**  
Tel: (800) 989-8499  
Fax: (770) 422-8730

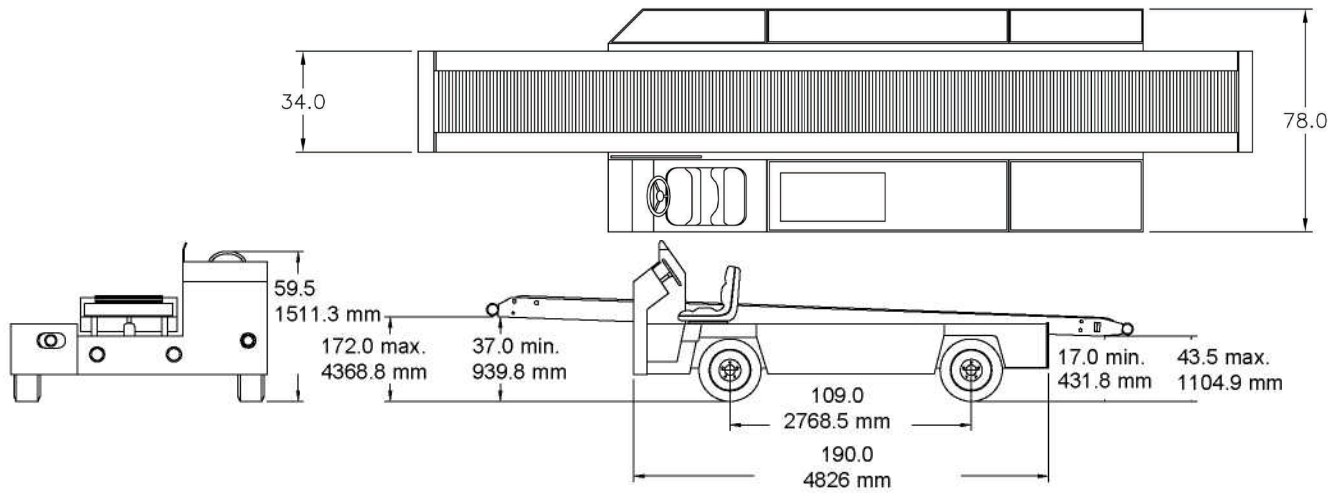
**Online**  
[www.tugtech.com](http://www.tugtech.com)

### *Standard features include:*

- Recessed headlights
- Combination tail and stop lights
- Back-up lights
- Automatic transmission
- All hydraulic hoses rated at 2250 psi
- Non-slip surface on fenders
- Non-slip surface on brake pedal
- Engine speed governor
- Adjustable over-center park brake lever
- Conveyor lifting emergency pump



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



## Specifications

## Model 660

## Belt Loader

### Dimensions

Length	300" (7620 mm)
Width excluding side bumpers	78" (1981.2 mm)
Height	59" (1498.6 mm)
Wheelbase	109" (2768.6 mm)
Conveyor length less front bumper	294" (7467.6 mm)
Conveyor width less guide rails	34" (863.6 mm)
Conveyor capacity at full incline	2000 lb (907 kg)
Belt width	24" (609.6 mm)
Door sill compatibility	40 to 170" (1016.0 to 4318.0 mm)
Conveyor speed	45-90 fpm (13.7 to 27.4 mpm)
Gross vehicle weight	6680 lb (3030.0 kg)
Turning radius - w/conveyor 300"	Chassis 260" (6600 mm)

### Engine Options

#### Ford DSG-423 EFI Gasoline

Type	Water-cooled, EFI, 4 Cylinder
Fuel	Gas
Displacement	.140 CID (2.3L)
Governed rpm with full load	2200
Net brake hp at governed rpm	79 (59 kW)
Torque at 3200 rpm	130 lb ft (174 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)

#### 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)

### Transmission

Type..... Ford industrial automatic transmission with torque converter

### Speed

Gasoline	3 forward, 1 reverse
Diesel	3 forward, 1 reverse
Shift Control	Shifter: 2-lever with throttle interlock

Maximum speed .....25-28 mph (35-40 km/h)

### Drive Axle

Type..... Dana 60 Series limited slip differential

Gear ratio	7.17:1
Suspension	Solid mount
Capacity	6000 lb (2721.1 kg)

### Drive Shaft

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

### Electrical System

Type	12 V, negative ground
Alternator	91 A

### Cooling System

Engine ..... 15 qt (14.2 L)  
Heavy duty radiator and fan

Transmission ..... Radiator cooled

### Fuel System

Fuel cell capacity	15.50 gal (58.67 L)
Fuel Options	Gasoline, diesel or LP

### Brakes

System ..... Dual split system with hydraulic assist

Front	Disc
Rear	Drum
Parking	Lever operated, drum type

### Steering System

Type..... Orbitrol-operated hydraulic cylinder (hydrostatic steering)

### Suspension

Front	Solid mount
Rear	Solid mount

### Hydraulic System

Pump positive displacement, engine belt-drive or direct drive

System pressure	1500 psi max
Filter	Return line with element condition indicator

Conveyor ..... Electric, hydraulic power unit to raise conveyor

### Instruments

#### Diesel Powered

Water temperature
Oil pressure
Hour meter
Ammeter

#### Gasoline Powered

Hour meter
Engine Performance Module (EPM) indicator light

### Partial List of Options

Electric belt control
Fuel gauge on instrument panel
Guard rails
Adjustable spot light
Narrow conveyor width for Boeing 777 Compatibility—31.5" (800.1 mm)
Emergency belt stop
Others available upon request



### Equipment Sales

1995 Duncan Dr. • Kennesaw, GA 30014 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  
[www.tugparts.com](http://www.tugparts.com)

