



Equipment Sales
815 Allgood Road • Marietta, GA 30062
USA
Tel: (770) 422-7230 • Fax (770) 428-7315
www.tugtech.com

Parts Sales
TUG Shop: (800) 989-8499 * (770) 422-8021
Fax: (770) 422-8730
www.tugparts.com



Model GT50 Aircraft Tow Tractor

The TUG Gator Tractor Model GT-50/GT-50H provides our customers with dependable pushback service for all mid-sized aircraft. This popular model has helped make our tractor product line synonymous with quality and performance. The GT-50 features optional gross vehicle weight packages for the various applications and airport conditions. Customers can choose the 60,000-lb (GT-50H) tractor for difficult towing requirements such as heavier aircraft, inclement weather conditions and tight maneuvering, or they may choose the 50,000-lb tractor for less stringent applications.

Standard features include:

- **Glow plugs for cold-weather starting**
- **Spark-arresting muffler**
- **Sealed-beam headlights**
- **Backup lights**
- **Turn signals/emergency flashing lights**
- **Front, rear & side reflectors**
- **Dual-rearview mirrors**
- **Electric horn**
- **Single-color polyurethane paint**
- **Anti-skid matting on top of tractor surface**



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ATB100455_0117

Specifications

Model GT50 Aircraft Tow Tractor

General

Gross Vehicle Weight (gvw) Maximum Drawbar Pull*
At gvw 50,000 lb (22,680 kg) 40,000 lb (18,143 kg)
At gvw 60,000 lb (27,216 kg) 48,000 lb (21,773 kg)

*At 0.8 traction coefficient. $\pm 3\%$ variation on published drawbar pull and weight, owing to manufacturing tolerances.

Speed*

Forward	1 st	2.5 mph (4.0 km/h)
	2 nd	3.8 mph (6.2 km/h)
	3 rd	4.6 mph (7.4 km/h)
	4 th	6.7 mph (10.8 km/h)
	5 th	9.5 mph (15.3 km/h)
Reverse	6 th	15 mph (24.0 km/h)
	1 st	2.5 mph (4.0 km/h)
	2 nd	3.8 mph (6.2 km/h)
	3 rd	9.5 mph (15.3 km/h)

Overall Dimensions

Length (w/o Hitches)	194" (4,923 mm)
Width	102" (2,600 mm)
Height (w/o Cab)	64" (1,626 mm)
w/Cab	78" (2,005 mm)
Wheel Base	90" (2,286 mm)
Ground Clearance	7" (178 mm)

Turning Radius (Outside)

Standard Front-Wheel Steer	21' (6,400 mm)
Optional Four-Wheel Steer	14' (4,267 mm)

Ramp Angles

Approach Angle	8.0°
Breakover Angle	17.0°
Departure Angle	14.0°

Engine - Standard, 1996 EPA-Certified

Manufacturer	Deutz Model BF6M1013
Type	Watercooled, diesel, four-cycle (turbocharged)
Number of Cylinders and Arrangement	Six (6)-cylinder; in-line
Displacement	436 C.I.D. (7.14 L)
Horsepower @-Flywheel	190 hp (141 kW) @ 2500 rpm

Transmission

Manufacturer	Funk Mfg. Co.
Type	Torque converter/power shift
Speeds	Six (6) forward; three (3) reverse
Controls	Electrical

Axles - Front

Manufacturer	Rockwell SVI Model 5 (Axle-Tech)
Type	Planetary-drive/steer
Steering System -Cylinders	
	Hydrostatic-Twin double-acting
Tires	365/80R20 radial, tubeless
Suspension	Trunnion mount

Axles - Rear

Manufacturer	Rockwell SVI Model 5 (Axle-Tech)
Type	Planetary-drive/rigid
Tires	365/80R20 radial, tubeless
Optional Rear Steering Axle Available	
Suspension	Rigid mount

Inter-Axle Differential

Integral with transmission	
Type	No spin

Brakes

Service, Front and Rear	Four-wheel drum brakes, 400x120-mm hydraulically actuated. Split braking is provided by a dual-chamber master cylinder. Power assist provided by an engine-driven hydraulic pump. Automatic backup to power assist, in event of engine shutdown provided by a battery-powered motor pump.
Parking	Mechanical actuated on caliper on driveline.

Steering Hydraulic System

Type	Two (2)-wheel hydraulic
Optional	Four (4)-wheel hydraulic
Pump	Direct-driven, gear-type
Steering Cylinders	Twin, double-acting
Controls, Four-Wheel	Electric pre-selection with push-pull

Hydraulic Oil Tank

Type	Removable
Capacity	17 U.S. gallons (64.4 L)

Electrical System

Starting System	12V
Charging System	70A (high output @ idle speed)

Fuel System

Capacity	40 U.S.-gallons (151 L)
Fuel	No. 2 Diesel (Jet-A-approved)

Hitch (Front and Rear)

Type	Pin coupler, camlocked
Height from Ground	16" (406.4 mm)
Pin Diameter	2.5" (63.5 mm)

Standard Operator Compartment

Operator instrument panel • engine tachometer • engine oil pressure gauge • engine coolant temperature gauge • voltmeter • hour meter • fuel level indicator • keyless anti-restart-type ignition/ shutdown switch • light switches • red parking brake "ON" warning light • symbolic decals &-labels for all instruments & controls • glow plug indicator light • warning lights for engine coolant high temp/low level, low engine oil pressure, alternator failure, brake booster and pump on • parking brake actuator with transmission out of neutral shift warning horn • starter interlock (engine speed sensitive) • driver's seat (adjustable position) • passenger seat

Optional Equipment

Two-man cab • windshield wipers • dome light • ventilating fan • sound insulation • electrical switches for above • roof windows • rear window wiper • tire chains • spare tire and wheel • revolving or flashing beacon (red/amber) • cold weather starting accessories • coolant heater • battery warmer • oil pan heater • fuel heater • dry-chemical fire extinguisher(s) • front and/or rear hitch lights • special paint schemes, strips, logos, etc. • front & rear communication jacks • Racor-style fuel filter/ separator • low engine oil pressure, high engine coolant temperature, automatic engine shutdown w/ override switch • two- or three-mode steering • heater/ windshield defroster (front &-rear) • transmission oil temperature gauge • 12-VDC emergency steering system • backup alarm • elevating cab option - 28" lift • GPU platform with/without GPU • GPU power cable(s) • hitch extension • jack adapters • hitch mirror • tilt steering • windshield washer • wipers, roof • other options available



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