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
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 ±3% variation on published drawbar pull and weight, owing to manufacturing tolerances.

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

Overall Dimensions  
Length (w/o hitches) 19’ (4.944 m)  
Width 10’2” (3.098 m)  
Height (w/o Cab) 6’4” (1.93 m)  
Wheel Base 90” (2.286 m)  
Ground Clearance 7” (178 mm)

Turning Radius (Outside)  
Standard Front-Wheel Steer 21’ (6.400 mm)  
Optional Four-Wheel Steer 14’ (4.267 mm)

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 @ 2500 rpm: 190 hp (141 kW)

Transmission  
Type: Torque converter/power shift  
Speeds: Six (6) forward; three (3) reverse  
Controls: Electrical

Axes - Front  
Manufacturer: Rockwell SVI Model 5 (Axle-Tech)  
Steering System - Cylinders: Hydrostatic-Twin double-acting  
Suspension: Trunnion mount

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

Specifications are subject to change without notice.

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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