

TUG TECHNOLOGIES

Providing Ground Support Solutions Worldwide



Model shown above includes additional options.

TUG GT110 Aircraft Gate Tractor

With over 20 years of airline service, TUG's tractors are proven performers. The GT-110 is the largest tractor available and it is the ideal tractor to handle pushback and towing requirements for all wide-body aircraft (except A380). Utilizing the newest manufacturing technology, and a wealth of tractor-building experience, the GT-110 provides our customers with reliability and guarantees satisfaction. The combined efforts of TUG and other major OEMs have established the GT-110 as the tractor of choice for customers that want to lower engine noise levels, lower harmful emissions, improve fuel economy and eliminate heavy diesel smoke. The GT-110's coordinated, track or crab steering can be selected to provide optimum maneuverability in tight places and ensure aircraft safety. All of these important needs are met while simultaneously providing up to 78,000 pounds of drawbar pull.

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

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

Online
www.tugtech.com

Standard features include:

- 3-Mode steering (coordinated, track, crab)
- Downshift inhibitor
- Out of neutral, parking brake "ON" alarm
- Upper-surface access steps
- Sealed-beam halogen headlights
- Backup lights
- Turn signals/ side marker/ Emergency flashing lights
- Dual-view rearview mirrors
- Electric horn
- Fuel water separator
- Automatic lube system
- Engine glow plugs for cold-start aid
- Front and rear communication jacks
- Two removable jacking plate Adapters
- Auxiliary transmission cooler
- Anti-skid matting on top of tractor



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

Specifications

Model GT110

Aircraft Tow Tractor

General

Gross Vehicle Weight (gvw) Maximum Drawbar Pull*
At gvw 90,000 lb (40,824 kg) 72,000 lb (32,659 kg)
At gvw 100,000 lb (45,360 kg) 78,000 lb (35,380 kg)
At gvw 110,000 lb (49,895 kg) 78,000 lb (35,380 kg)
At gvw 120,000 lb (54,432 kg) 78,000 lb (35,380 kg)
* At 0.8 traction coefficient. ±3% variation on published drawbar pull and weight, owing to manufacturing tolerances.

Speed

Forward
1st 2.1 mph (3.4 km/h)
2nd 5.2 mph (8.4 km/h)
3rd 12.4 mph (20 km/h)
4th 15 mph (24.1 km/h)
Reverse - same as above, but without 3rd and 4th gear.

Overall Dimension

Length* w/o Hitches 258" (6,553 mm)
w/Standard Hitches 285" (7,239 mm)
w/GPU-and Standard Hitches 342" (8,687 mm)
Width 110" (2,794 mm)
Height Over frame 68" (1,727 mm)
Standard Stationary Cab 81.5" (2,070 mm)
Lifting Cab 65.5" to 93" (1,664 mm to 2,362 mm)
Wheelbase 124" (3,150 mm)
Ground Clearance (Nominal) 8.5" (216 mm)
Length will vary with hitch selection.

Turning Radius (Four-Wheel Coordinated Steer)

Minimum Inside 96" (2,438 mm)
Minimum Outside 260" (6,604 mm)

Ramp Angles

Approach Angle 7.0°
Breakover Angle 12.0°
Departure Angle 17.0°
Departure Angle w/GPU/RO platform 8.0°

Engine - Certified Tier III

Manufacturer Deutz Model TCD 2013 L6 2V
Type Water-cooled, diesel, four-cycle
Number of Cylinders Six (6)-cylinder; in-line
Displacement 433 C.I.D. (7.1L)
Horsepower@ Flywheel 268 hp (200 kW) @ 2300 rpm
Maximum Torque 774 ft lb @ 1500 rpm
Fuel Injection Common Rail
Aspiration Turbocharged, charge air-cooled

Transmission

Manufacturer ZF
Type Torque Converter/Powershift
Speeds Four (4) forward; two (2) reverse
Control Electric shift with downshift inhibitor

Axles

Manufacturer Meritor (Rockwell International)
Type (Front and Rear) Planetary-drive and steering w/high traction differential
Tires 16.00x25
Suspension Front, rigid; Rear, trunnion
Interaxle Differential Integral with transmission
Type Bias (proportional)

Brakes

Service Brakes Hydraulic power braking system w/dual accumulator backup. Disk brakes on the four wheels. Brakes on each axle are actuated through 1 of the 2 independent service brake circuits.
Parking Brakes Spring-applied, hydraulically released calipers on each axle pinion.

Hydraulic System

Hydraulic Pump Engine-driven, providing hydraulic power for steering & braking
Type Piston
Capacity 40 gpm (152 L/min) @ 2300 rpm
Hydraulic Oil Tank
Type Removable
Capacity 30 U.S. gallons (113 L)
Steering Type Closed center hydraulic power steering system. Three mode steering with electrical selection of front 2-wheel, 4-wheel coordinated or 4-wheel crab.

Emergency Steering Provided by 12VDC motor-driven hydraulic pump

Electrical System

Voltage 12V
Alternator 150A
Batteries (2)
Type Heavy-duty diesel starting
Cranking Capacity (ea.) 925A

Fuel System

Capacity 65 U.S.-gallons (246 L)
Fuel No. 2 Diesel (Jet-A approved)

Hitches

Front and Rear - Standard
Type Pin coupler
Height 16" (406mm)
Pin diameter 2.5" (63.5 mm)

Front and Rear - Optional

Type Cushioned, pin coupler
Height 16.0" (406mm)
Pin diameter 2.5" (63.5 mm)
* Hitches include automatic pin retainers.

Capacities

Hydraulic Oil 30 U.S. gallons (removable tank)
Engine Coolant 25.4 quarts
Engine Oil 22.2 quarts
Transmission Fluid 8 gallons
Fuel 65 U.S. gallons (No. 2 Diesel Jet-A-approved)

Standard Front Operator Instrument Panel

Speedometer with odometer · engine tachometer/hour meter · engine diagnostic reader · engine diagnostic light · fuel indicator with low fuel level warning light · voltmeter · keyless, anti-restart ignition/shutdown switch · emergency engine shutdown switch · light switches · blue high-beam indicator light · red parking brake "ON" warning light · turn signal/hazard indicator lights · glow plug "ON" indicator light · alternator "NO CHARGE" indicator light · warning lights and audible alarm for engine L.O.P., H.C.T. and transmission H.O.T. · parking brake switch · steering mode selector switch · system pressure gauge · emergency steering switch · intercom jacks

Optional Equipment

Full-width elevating cab with front hitch mirror or stationary front cab · open front operator compartment · rear operator compartment with GPU platform · backup alarm · battery disconnect · amber safety beacon · rear viewing camera · cold-weather options · fire extinguisher · fire suppression system · integral internal GPU cable · GPU installation · front and rear hitch lights · hydraulic self-jacking system · spare tire and wheel assembly · tire chains · custom paint schemes · cab air conditioning · other options available · automatic lube system

Features of Optional Front Cab

Removable doors with door retainers · sliding door windows/rear windows · roof windows with driver's side wiper · ventilating fans (2) · front windshield wipers and washers · adjustable, padded driver's seat · two-man, padded passenger seat with storage compartment · heater-defroster · dome light · audible alarm while raising/lowering cab

Features of Optional Rear Operator Compartment

Operator station selection switch · dual rearview mirrors · (if open cab) standing position driver's seat · (if closed cab) driver's bucket seat and passenger bench seat · electric shift control with downshift inhibitor and out of neutral · park brake "ON" alarm · park brake switch · rear headlight switch · emergency engine shutdown switch · steering mode selector switch · emergency steering switch · alternator "NO CHARGE" indicator light · warning light for engine and transmission faults



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Specifications are subject to change without notice.
Models shown may include optional features.

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