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 iacks
- Two removable jacking plate Adapters
- Auxiliary transmission cooler
- Anti-skid matting on top of tractor



Specifications

Model GT110

Aircraft Tow Tractor

Ochiciai	
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 110,000lb(49,895 kg)	78,000 lb(35,380 kg)
At gvw 120,000lb(54,432 kg)	78,000 lb(35,380 kg)
* At 0.8 traction coefficient. ±3	3% variation on published
drawbar pull and weight, owi	ng to manufacturing
tolerances.	

Speed Forward

Canaral

1st2.1 mph	n (3.4 km/h)	
2nd 5.2 mpl	n (8.4 km/h)	
3rd 12.4 mg	oh (20 km/h)	
4th 15 mph	(24.1 km/h)	
Reverse - same	às above but witho	ut 3rd and 4th

same as above, but without 3rd and 4th gear.

Overall Dimension

Overan			
Length* w	/o Hitches	.258"	(6,553 mm)
١ .	w/Standard Hitches	285"	(7,239 mm)
\	w/GPU-and Standard Hitches	.342"	(8,687 mm)
Width		.110"	(2,794 mm)
Height C	Over frame	68"(1,727 mm)
Š	Standard Stationary Cab	81.5"	(2,070 mm)
	ifting Cab 65.5" to 93" (1,664		
Wheelbase	9	.124"(3,150 mm)
Ground Cl	earance (Nominal)	8	.5"(216 mm)
Length	will vary with hitch selection.		,

Turning Radius (Four-Wheel Coordinated Steer)

Minimum Outside	260 (6,604 mm)

кат	DА	ına	les
A	<u>.</u>	۸	ı _

Approach Angle	7.0°
Breakover Angle	12.0°
Departure Angle	
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	
Displacement	
Horsepower@ Flywheel .	. 268 hp (200 kW) @ 2300 rpm
Maximum Torque	. 774 ft lb` @ 1500 rpm
Fuel Injection	
Aspiration	 Turbocharged, charge air-cooled
•	

Transmission

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

Axles

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





В	rak	es

Service Brakes	
system w/dual accumulator b	packup. Disk brakes on
the four wheels. Brakes on e	ach axle are actuated
through 1 of the 2 independer	nt service brake circuits.
Parking Brakes	Spring-applied,
hydraulically released calipers	on each axle pinion.

Hydraulic System

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

Emergency SteeringProvided by 12VDC motor-driven hydraulic pump

Electrical System

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

Fuel System

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

Hitches

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

Front	and	Rear -	Ontional

rype	Cushionea, 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	
Engine Oil	
Transmission Fluid	
Fuel	
	I 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 $light \cdot voltmeter \cdot keyless, anti-restart \ ignition/$ 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 \cdot steering mode selector switch \cdot system pressure gauge \cdot emergency steering switch \cdot 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 plat- $\text{form} \cdot \text{backup alarm} \cdot \text{battery disconnect} \cdot \text{amber}$ 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 \cdot cab air conditioning \cdot 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 \cdot park brake "ON" alarm \cdot park brake switch \cdot rear headlight switch \cdot emergency engine shutdown switch \cdot steering mode selector switch \cdot emergency steering switch \cdot alternator "NO CHARGE" indicator light \cdot warning light for engine and transmission faults



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

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

TypeBias (proportional)