

# TUG Model GT50 Pushback



The TUG's Tractor Model GT-50/GT-50H provides our customers with dependable pushback service for all mid-sized aircraft.



## Standard Features

- Glow plugs for cold-weather starting
- Sealed-beam hi-low headlights
- Backup lights
- Front, rear & side reflectors
- Dual-rearview mirrors
- Electric horn
- Single-color polyurethane paint
- Anti-skid matting on top of tractor surface

## Optional Features

- Two-man cab
- Windshield wipers
- Dome light
- Ventilating fan
- Sound insulation
- Electrical switches for above
- Roof windows
- Rear window wiper
- Tire chains
- More Options on second page

## General Information

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.



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## GENERAL

### Gross Vehicle Weight (gvw) Maximum Drawbar Pull\*

At gvw 42,000 lb (19,051 kg)	33,600 lb (15,241 kg)
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\*

<b>Forward</b>	1st.....2.2 mph (3.5 km/h)
	2nd.....5.3 mph (8.5 km/h)
	3rd.....12.3 mph (19.8 km/h)
	4th.....17.5 mph (28.2 km/h)
<b>Reverse</b>	1st.....2.7 mph (4.3 km/h)
	2nd.....5.6 mph (9.0 km/h)

## OVERALL DIMENSIONS

Length (w/o Hitches).....	194" (4,928 mm)
Width.....	102" (2,591 mm)
Height (w/o Cab).....	64" (1,626 mm)
w/Cab).....	78" (1,981 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, CERTIFIED TIER III

Manufacturer.....	Deutz Model TCD2013L04
Type.....	Watercooled, diesel, four-cycle (turbocharged)
Number of Cylinders and Arrangement	
Four (4)-cylinder; in-line	
Displacement.....	290 C.I.D. (4.76L)
Horsepower @-Flywheel.....	169 hp (126 kW) @ 2300 rpm

## TRANSMISSION

Manufacturer ZF	
Type .....	Torque converter/power shift
Speeds .....	four (4) forward; two (2) reverse
Controls.....	Electrical
Axles - Front	
Manufacturer.....	Rockwell SVI Model 5 (Axle-Tech)
Type.....	planetary-drive/steer
Inter-Axle Differential	
Integral with transmission	

## AXLES- FRONT

Steering System -Cylinders	Hydrostatic-
Twin double-acting	
Tires.....	425/65R22.5radial, tubeless
Suspension.....	Trunnion mount

## AXLES - REAR

Manufacturer.....	Rockwell SVI Model 5 (Axle-Tech)
Type.....	Planetary-drive/rigid
Optional Rear Steering Axle Available	

## TIRES

425/65R22.5 radial, tubeless

## SUSPENSION

Suspension.....	Rigid mount
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.....	95A (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 • Engine diagnostic reader • 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 • two- or three-mode steering • heater/windshield defroster (front &-rear) • transmission oil temperature gauge • 12-VDC emergency steering system • backup alarm • GPU platform with/wit-hout GPU • GPU power cable(s) • hitch extension • jack adapters • hitch mirror • windshield washer • wipers, roof • other options available



Heavy Equipment Procurement Program  
Contract SP18BEC-12-D-0005

Specifications are subject to change without notice. Models shown may include optional features. GT50/1210, Rev. 6/15

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