

TUG TECHNOLOGIES

Providing Ground Support
Solutions Worldwide



Model shown above includes additional options.

Model U30 Aircraft Gate Tractor

With over 20 years of airline service, TUG's tractors are proven performers. The largest tractor available, the U-30 is the ideal tractor to handle pushback and towing requirements for all wide-body military aircraft. Utilizing the newest manufacturing technology and a wealth of tractor-building experience, the U-30 provides our customers with reliability and guarantees satisfaction. The combined efforts of TUG and other major OEMs have established the U-30 as the tractor of choice for customers who want to lower engine noise levels, lower harmful emissions, improve fuel economy and eliminate heavy diesel smoke. The U-30'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 72,000 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
- Hydraulic lifting cab
- Backup lights
- Turn signals/side marker/emergency flashing lights
- Dual-view rearview mirrors
- Electric horn
- Water fuel separator
- Automatic lube system
- Engine glow plugs for cold-start aid
- Front and rear communication jacks
- Two removable jacking plate adapters
- Anti-skid matting on top of tractor
- Single-color polyurethane paint



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

Specifications

Model U30

Aircraft Tow Tractor

General

Gross Vehicle Weight (gvw) Maximum Drawbar Pull
At gvw 100,000 lb (45,400 kg) 72,000 lb (32,688 kg)
30,000 lbs are removable for air transport Air Transportable by C-5 and C-17

Speed*

Forward 1st.....2.0 mph @ 17,000 lb dbp (3.2 km/h @ 7711 kg)
2nd.....4.0 mph @ 10,000 lb dbp (6.4 km/h @ 4762 kg)
3rd.....9.6 mph @ 8600 lb dbp (15.3 km/h @ 1633 kg)
4th.....15.0 mph @ 2000 lb dbp (24.1 km/h @ 907 kg)

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

*At gvw=100,000 lb (45,400 kg) and 2300 rpm of the engine running on dry, level concrete.

Overall Dimension (includes GPU/ROC platform)

Length* w/o Hitches 258 "(6553 mm)
w/Standard Hitches 300"(7620 mm)
Width 110"(2794mm)
Height Over frame 68"(1727 mm)
w/Standard Stationary Frame 81.5"(2070 mm)
Wheel Base 124"(3150 mm)
Ground Clearance 10"(254 mm)
Length will vary with hitch selection.

Turning Radius (Four-wheel Coordinated Steer)

Minimum Inside 96"(2438 mm)
Minimum Outside..... 260"(6604 mm)

Ramp Angles

Approach Angle 7.0°
Breakover Angle 12.0°
Departure Angle 17.0°

Engine - Certified TierIII

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

Axles

Manufacturer 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.
Disc 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 cab.

Emergency Steering Provided by 12VDC motor-driven hydraulic pump

Electrical System

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

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 20"(508 mm)
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 low coolant level light · transmission oil temperature gauge · 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 · generator "NO CHARGE" indicator light · warning lights for engine L.O.P., H.C.T., L.C.L. and transmission H.O.T. · parking brake switch · steering mode selector switch · system pressure gauge · emergency steering switch · Driver and passenger mirrors, hitch mirror

Additional Standard Equipment

Seat belts · rear hitch mirrors · full-width elevating cab with front hitch mirror · amber safety beacon · standard cold weather starting package provides starting to -20°F · extreme cold weather package · backup alarm · battery disconnect · mounted sun visors · hydraulic brakes · spring applied hydraulically released parking brake · one set of manuals · front and rear hitch lights · meets all EPA Tier III and California emissions standards · wheel wells are designed to accept tire chains · custom paint schemes · other options available

Front Cab Features - Standard

Removable doors with door retainers · sliding door windows · rear windows · roof windows with driver's side wiper · heater-defroster · windshield wipers and washers · adjustable, padded driver's seat · two-man, padded passenger seat with storage compartment · dome light · audible alarm with raising/lowering cab · interior sound levels below 84 dB

Variations of the U-30

TUG makes variations of this unit that have front and rear cabs and go up to 120,000 lb GVW. We produce this same unit in heavier weights, which also support Air Force One. Spare parts, consumables and optional accessories are available under GSA or DLA contracts



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