



DESCRIPTION

The TPX-500 is a towbarless tractor designed to perform push back and short distance maintenance towing on all wide body aircrafts (B767, A300, A310, A330, DC10/MD11, A340-200 to 600, A350, B787, B777-2/300/ER/LR, B747-100 to -8). The TPX series have a unique cradle design with a central articulation between front and rear chassis preventing jack-knifing situations. The driver is perfectly aligned with NLG and very close to the cradle to perform safe operations. Its failsafe and fully automated loading and unloading cycle is unmatched in its simplicity and security. For maintenance towing a dedicated 90 kVA GPU is available as an option.

Like all TLD tractors, the TPX series are efficient in design (2WS, 2WD) simplifying operational and maintenance tasks while offering the best TCO of comparable tractors.

STANDARD FEATURES

- **Engine:**
Stage 3A/Tier 3 : DEUTZ TCD2013 L06 4V 227 kW at 2200 rpm, Diesel engine, 6 cylinders
Stage 4/Tier 4 Final : CUMMINS QSB6.7 224 kW at 2500 rpm, Diesel engine, 6 cylinders
- **Transmission:** Two hydrostatic pumps (closed loop) with two high torque hydraulic wheel motor with one gear reducer
- **Driveline capability:** 175 kN (39,350 lbf)
- **Maximum NLG load:** 420 kN (94,400 lbf)
- **Maximum NLG width:** 1 580 mm (62")
- **Maximum speed:** 30 km/h (18.6 mph)
- **Automatic aircraft pre-selection:** Selects appropriate DBP and braking range according to aircraft type
- **Services brakes:** Hydrostatic brakes on driving wheels and drum brakes on steering wheels
- **Parking brakes:** dry brake discs integrated into driving wheel reducers, spring applied, hydraulically released.
- **Steering:** Hydrostatic steering on axle
- **Fuel tank capacity:** 290 liters (76.6 Gal)
- **Hydraulic tank capacity:** 350 liters (92 Gal)
- **Tires:** 16.00-25 on driving wheels
295/60-22.5 on steering wheels
- **Paint:** White – RAL 9016
- **Safety:** DBP control, emergency stop button, overtorque alerting device and backplate monitoring system

STANDARD EQUIPMENT

- Fixed cab with sound insulation, sunroof, defroster and side mirrors
- Driver and passenger suspended seat
- Rotating driver's seat and secondary dashboard
- Overtorque protection and backplate monitoring system
- Tow hitch for conventional operations
- **Gauge:**
 - Hourmeter
 - Fuel level
 - Speedometer
 - RPM, voltmeter, engine oil pressure and temperature
- **Indicators lights:**
 - Engine oil pressure
 - Battery charge level
 - Coolant circuit temperature
 - Hydraulic filter clogging
 - State of the loading/unloading cycle
 - Parking brake
 - Headlights
 - Steering wheels alignment
 - Overtorque (operational , safety , fault)
 - General anomaly buzzer and indicator light
- **Color Display:**
 - Aircraft selection
 - Diagnostic center
- **Emergency equipment:** Hand pump for parking brake and DC pump to perform unloading procedure

ELECTRICAL EQUIPMENT

- Cradle function managed by PLC
- 24 VDC electrical system, 2 batteries 110 Ah
110A alternator on Stage 3A/Tier 3
120A alternator on Stage 4/Tier 4 Final
- Battery master switch
- Flashing beacon
- Low Beam – High beam lamps
- LED : Tail lights, stop lights, reverse lights, front and rear warning lights, front and rear turn signal
- Buzzer on backward
- Cradle illumination light
- Laser guide

DIMENSIONS AND WEIGHT

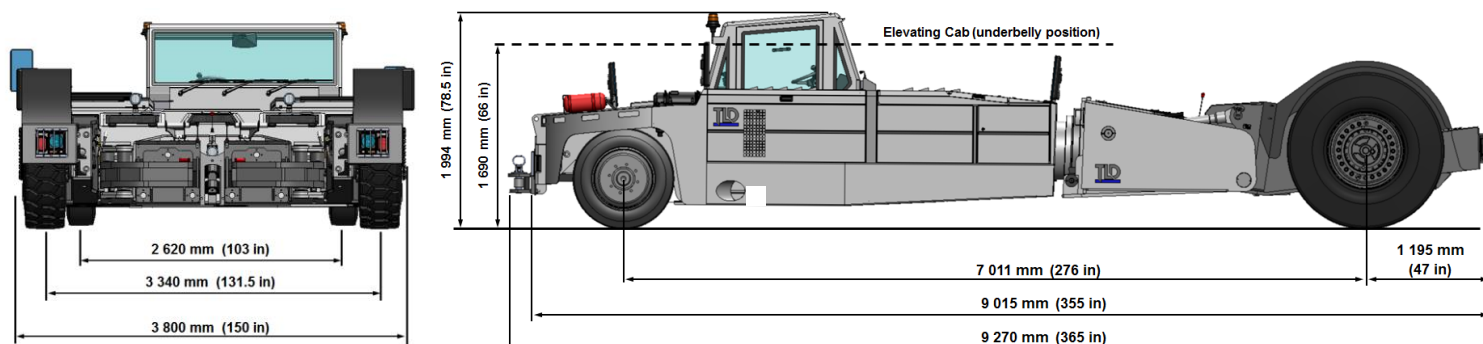
Front axle: 14 720 kg (32,450 lbs)
Rear axle: 9 030 kg (19,910 lbs)

Gross weight without GPU: 23 750 kg (52,360 lbs)
Gross weight with GPU: 24 150 kg (63,240 lbs)

Inside turning radius: 4 000 mm (157 in)
Outside turning radius: 10 800 mm (425 in)

OPTIONS AVAILABLE

- Air conditioning
- Rotating beacon
- Extra wiring for radio
- Jack plugs
- Spare wheels
- Elevating cab
- Custom paint
- 2 lifting jacks for steering axle
- GPU 1 output 90kVA with 40ft length cable
- Webasto heater
- De-icing front & rear windscreen (integrated resistors)
- heated mirrors
- Xenon lights in towing direction
- Overtorque test tool
- Overtorque diagnostic interface
- Engine diagnostic interface
- Strobe light system LED
- Automatic lubrication system
- Steering angle indication
- Emergency hand pump (extra emergency procedure)



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Specifications may be altered as a constant effort to improve performance.
Tolerances of data: +/- 5 %. Some views may show optional equipment.