

Expediter 300



Towbarless Pushback and Maintenance Tow Tractor

A towbarless tractor that services almost all your aircraft with efficiency and economy.

The Expediter 300 offers ultimate in towbarless tractor efficiency, safety and convenience, handling a wide range of popular aircraft, and the economical option of one-man operation.

Designed to service aircraft from the A318 and B737 families to the A340 and B777.

The Expediter 300 brings many benefits to the aircraft towing operation that cannot be accomplished by conventional tow tractors. These include:

- The elimination of all towbars and related logistical problems, accidents and injuries
- Provides opportunity to reduce the number of tractors and manpower required
- Easier to maneuver the aircraft
- Rotating driver's seat for ergonomic comfort and improved visibility
- Hydrostatic drive offering smoother acceleration and dynamic braking

In addition to aircraft towing enhancements over conventional tractors, the Expediter 300 has the following safety features:

- Nose landing gear is safely locks in the tractor's cradle preventing the aircraft from escaping
- No jerking or vibration to the nose landing gear when accelerating and braking
- Automatic aircraft type selection—to automatically set the appropriate traction and braking forces
- Integrated Oversteer Alerting Device (OAD)
- Simple emergency nose landing gear release system



Standard Features:

- Automatic aircraft type detection
- Full vision high comfort cab
- Rotating drivers seat
- Twin steering wheels for dual facing control
- Twin accelerator pedals electrically actuated
- Twin brake pedals hydraulically actuated
- Full instrumentation and road lighting
- Emergency steering performance
- Electro-hydraulic pump for auxiliary power supply
- Reverse alarm

Optional Features:

- Air conditioning
- Alternative cabin heating system
- Electronic front and rear window heating
- Flood lights
- OAD alert beacon
- Wheels angle indicator
- Heated mirrors
- PIN confirmation indicator
- Intercom
- Differential lock
- Other options available on customer's request

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Specification

Expediter 300

Gross Vehicle Weight (w/out GPU) 14,400 kg (31,747 lb)

Maximum Tractive Effort 115 kN (25,853 lbf)

Maximum Pushback Speed
Loaded 8 km/hr (5 mph)
Unloaded 20 km/hr (12 mph)

Overall Dimensions
Length 8.12 m (320 in)
Width 3.55 m (140 in)
Height 1.72 m (70 in)
Wheelbase 3.52 m (139 in)
Ground clearance (unloaded) 140 mm (5.5 in)

Outside Turning Radius (front wheel steering) 9.30 m (366 in)

Fuel Capacity 230 L (60.8 gal)

Hydrostatic Drive

2-wheel drive; closed loop, consisting of one variable displacement pump and two dual displacement motors, anti-spin device incorporated: Electronic-hydraulic control

Steering System

Servo-hydraulic front axle power steering; emergency back-up system

Brake System

Service Brake: Hydraulically actuated 2 circuit brake acting on all 4 wheels (only front wheels when towing smaller aircraft); Front axle: shoe brakes, Rear axle: drum brakes; **Hydrostatic Brake:** Wear free hydrodynamic braking on all wheels; **Parking Brake:** Spring loaded brake hydraulically released. Oil bathed discs in front axle

Airplane Retention Equipment Sturdy modular construction with few moving parts; hydraulically actuated by 4 cylinders, plus 2 additional cylinders to stop nose wheel pop out, PLC controlled

Axles

Front: Kessler steering axle
Rear: Fixed mounted wheel hubs with hydraulic drive motors

Tire and Rim Size

Front and Rear: Tire—385/65 R22.5, Rim—11.75 x 22.5

Electrical System

24 Volt; 2 batteries 12 V/66 Ah; Alternator: 80 Amps

Engine

Deutz TCD2013L6 4V, 243 kW (326 hp)

Monitoring Devices

Standard Oversteer Alert Device (OAD)
Warning lamps: park brake set, motor oil pressure low, cooling fluid temperature high, hydraulic oil temperature high
Battery charging light

Aircraft Range

A300, A320, A330, A340-200/300, B727, B737, B757, B767, B777-200/300, MD80, DC9, DC10, MD11

