

Expediter 160



Towbarless Gate Pushback and Maintenance Tow Tractor

The Expediter 160 offers ultimate in towbarless tractor efficiency, safety and convenience, handling a wide range of popular aircraft and is designed to service aircraft from the A320 and B737 families to the A300 and B767.

The Expediter 160 brings these benefits to aircraft towing:

- Simplest controls in the industry
- Automatic aircraft selection
- Gate and maintenance towing
- Automatic aircraft pick up sequence
- Easy access to major components
- Minimal working components on pick-up system
- Common hydraulic components with other FMC products

The JBT AeroTech Expediter 160 towbarless tractor also has the following safety features:

- Secure nose-wheel retention and pick-up
- Patented anti jack-knifing system
- Oversteer alerting device (OAD)
- 3 levels of emergency aircraft release
- Emergency steering system
- Dynamic braking

Patented fail-safe pick-up with no need for manual pre-selection of aircraft type.



Specification Expediter 160

Standard Features:

- Steel cab
- Driver and 2 passenger seating
- Rear view mirrors
- Accumulator back-up for braking
- 2 way radio pre-wiring
- Manual hand operated emergency aircraft release
- Electric powered hydraulic for steering and braking back-up

Optional Features:

- Air conditioning
- Power adjustable/heated mirrors
- Winterization
- Aircraft wingtip strobe lights
- Intercom system pre-wire
- Fire extinguisher

Monitoring Devices:

- Standard Oversteer Alert Device (OAD)
- Engine system monitor and display
- Sequential task prompt on display
- PRE monitor and display

JBT AeroTech

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Gross Vehicle Weight (w/out GPU)	10,433 kg (23,000 lb)
Maximum Tractive Effort	60 kN (13,500 lbf)
Maximum Maintenance Tow Speed	
Loaded	25.7 km/hr (16 mph)
Unloaded	25.7 km/hr (16 mph)
Overall Dimensions	
Length	7.25 m (285.4 in)
Width	3.46 m (136.3 in)
Height	1.77 m (70.0 in)
Wheelbase	3.01 m (118.8 in)
Ground clearance (unloaded)	188 mm (7.4 in)
Outside Turning Radius (front wheel steering)	8.92 m (351.0 in)
Fuel Capacity	227 L (60 gal)
Hydrostatic Drive	2-wheel drive; closed loop, consisting of one variable displacement pump and one variable displacement motor
Steering System	Dual steering wheels with dual orbitrol steering control valves
Brake System	Service Brake: Hydraulically actuated 2 circuit braking acting on all 4 wheels with dry drum brakes on the front axle and dry disk brakes on the rear axle Hydrostatic Brake: Wear free hydrodynamic braking on front axle Parking Brake: Spring applied hydraulically released (SAHR)
Airplane Retention Equipment (PRE)	Sturdy modular construction with few moving parts. Hydraulically actuated. 2 lifting cylinders, 2 clamping cylinders, 2 wheel lock cylinders. The PRE is PLC controlled and monitored by an Oversteer Alert Device (OAD)
Axles	Front: Kessler steer axle Rear: Fixed mounted wheel hubs
Tire Size	Front and Rear: 355/65R15
Electrical System	24 Volt; Alternator: 80 Amps
Engine:	Deutz BF6M1013C, 6 cyl. diesel, 165 kW (221 hp)
Aircraft Range	A300, A310, A318, A319, A320, A321, B707, B717, B727, B737, B757, B767-200/300, DC8, DC9, MD80/90, KC-135

