



DOUGLAS TOWBARLESS AIRCRAFT TRACTOR: *Model: TBL 280Mk5*

The Douglas Tugmaster type **TBL- 280 Mk5** towbarless aircraft handling tractor has been designed primarily for **pushback, inter-gate towing, and longer distance maintenance towing operations at higher speeds** with the following aircraft: -

Embraer:	ERJ 190/195
McDonnell Douglas:	DC9/MD80/MD90
Boeing:	B717, B737, B727, B757, B767, B787 and B777.
Airbus:	A318/A319/A320/A321, A310/A300, A330 and A340-200/300
Boeing:	DC10/MD11
Lockheed:	L 1011

Detailed Technical Specification: - NS 1770 Issue 1

- Cummins QSB 6.7 water cooled diesel engine rated at 186 kW (250 bhp) with diagnostic capability to EPA Tier 4 / Stage IIIB exhaust emission standards.
- ZF 3 WG211 powershift transmission with 3 speed forward and 3 speed reverse gearbox incorporating fully automatic mode and diagnostic capability.
- Fully enclosed dual control, dual facing, sound insulated luxury cab with centre swivelling seat/control column console for the operator to face in either direction of travel. Air suspension seat for driver and suspension seat for one crew-member.
- Heater / Demister system. Optional: Air Conditioning
- Electronically controlled, powered hydraulic selectable 4 mode steering:
 - 2 wheel front
 - 2 wheel rear
 - 4 wheel co-ordinated
 - Crab steering.
- Front two (2) wheel drive.
- Rear support wheels mounted on steered turntables and trailing arm type air suspension system.
- CanBus Programmable Logic Control for cradle functions, drive line and vehicle controls.
- Full highway type lighting for both driving directions.
- Flashing amber warning beacon on cab roof.
- Electronic Gauge Unit providing full instrumentation including speedometer & hourmeter.
- Over-steer warning / alerting system.
- CCTV system to monitor cradle operation from in the cab.
- Automatic chassis lubrication system.
- Maximum cradle lifting capacity - 35,000 kgs.(Aircraft nose wheel weight.)
- Finish painted in Single Colour or Customers Livery.
- Operator, Spare Parts and Workshop Manuals, in English language

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