

# TMD/TRD250 PPM Aircraft Air Start



The TUG Model TMD-250 is designed from a clean sheet of paper, these units offer lower operating costs and decreased environmental impact.



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## Standard Features

- Dual discharge air outlet with manual shutoff valves
- Automatic discharge air pressure safety relief system to protect aircraft
- Automatic hose bleed down
- On Demand automatic engine throttle control
- Leaf spring rear suspension
- Remote lube oil drains

## Optional Features

- Truck mounting (TRD)
- Skid mounting (SKD)
- 30', 40', 50' & 60' air discharge hoses (includes ground air connector)
- Unit running beacon
- Low fuel level warning beacon
- Engine and/or compressor filter indicators
- Rub Rails

## General Information

Equipped with a Cummins diesel engine and a GHH-Rand Compressor



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**GENERAL**

Vehicle type.....Continuous-flow, turbine engine air starter  
Application.....All wide-body aircraft engines with exception of B-777

**ENGINE (AS250)**

Manufacturer.....Cummins Diesel  
Model.....QSX 15.....535 HP  
Horsepower.....535 bhp(399kW)

**COMPRESSOR**

Manufacturer.....GHH-RAND  
Model.....CD42S (single element)  
Type.....Rotary dry screw oil free air  
Output at 68°F (20°C) 60% RH, sea level  
TMD-250.....250lbs./min. (113 kg./min.)  
Discharge air temperature 390°F (200°C) nominal (TMD-250)

**ENGINE AND COMPRESSOR PROTECTION SYSTEM**

Operating conditions below are factory set for operator warning and/or automatic shutdown in UNLOAD and AIR PACK mode only. All safety shutdowns are inoperative in JET START modes with the exception of a manual operator emergency stop.

Engine high coolant temperature  
.....217°F(103°C)  
Engine low oil pressure  
.....10 psig (69 kPag)  
Compressor high air temperature  
.....460°F(237°C)  
Compressor high oil temperature  
.....176°F(80°C)  
Compressor low oil pressure  
.....10 psig (69 kPag)

**AIRCRAFT PROTECTION SYSTEM**

Discharge air regulating valve  
.....42 psig (289 kPag)  
Discharge air safety valve  
.....52 psig (359 kPag)

**ELECTRICAL SYSTEM**

Starting System.....24V DC  
Alternator.....70A  
Batteries.....Maint. Free 750CCA

**DIMENSIONS AND WEIGHTS**

	<b>TMD-250 (trailer mounted)</b>	<b>TRD-250 (truck unit)</b>
Length	176" (4.47 m)	146" (3.71 m)*
Width	82" (2.08 m)	82" (2.08 m)*
Height	93" (2.36M)	84" (2.13 m)*
Weight (dry)	12,600 lbs. (5715 kg)	11,600 lbs. (5262 kg)

plus truck GVW \* Overall dimensions vary by truck manufacturer

**STANDARD INSTRUMENTATION PANEL**

- Tachometer
- Water temperature
- Engine oil pressure
- Panel mounted electric and tank mounted mechanical fuel level gauges
- Voltmeter
- Air output temperature
- Air output pressure
- Compressor oil temperature
- Compressor oil pressure
- Safety warning and shutdown indicators
- Automatic Control System
- Demand air throttle control
- Dual-pressure regulation
- Engine protection warning lamps and unit shutdown for high coolant temperature, low engine oil pressure
- Compressor warning lamps and unit shutdown for high compressor oil temperature, low compressor oil pressure and high output air temperature.

**PARTIAL LIST OF OPTIONS**

- Truck mounting (TRD)
- Skid mounting (SKD)
- 30', 40', 50' & 60' air discharge hoses (includes ground air connector)
- Unit running beacon
- Low fuel level warning beacon
- Low fuel shutdown circuit
- Engine and/or compressor filter indicators
- Engine coolant - Engine lube oil - Compressor lube oil and Battery heater circuits
- Rub rails
- General mechanics tool set
- Fire extinguisher
- Wheel chocks
- Maximum sound attenuation kit
- Low ambient start kit to -40°F

**STANDARD FEATURES**

- Dual discharge air outlet with manual shutoff valves
- Automatic discharge air pressure safety relief system to protect aircraft
- Discharge hose manual bleed-down valve
- On Demand automatic engine throttle control
- Leaf spring rear suspension
- Remote lube oil drains
- Maintenance-free batteries
- Large full-length „gullwing“ module access doors
- Engine lube oil magnetic sump plug
- Sound and vibration dampening material
- Illuminated operator control panel with complete gauge set
- Rust proof engine/compressor heat Exchanger
- Pitched Roof



Specifications are subject to change without notice. Models shown may include optional features. AS250/1390 Rev. 4/14

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