

MAINSTREAM ENGINEERING CORPORATION

# AMD45 / 3-Cylinder, 1.25 L, Turbodiesel

for Demanding Military and Industrial Applications

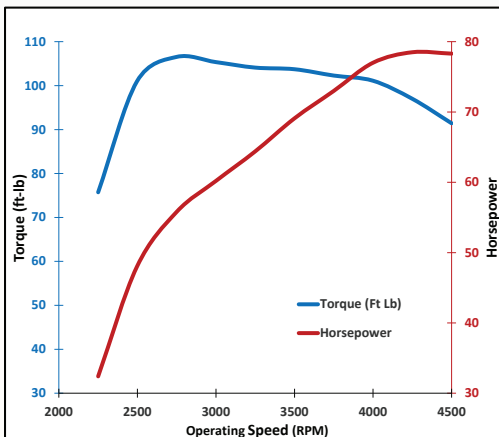


The **AMD45 Turbodiesel** was developed with automotive design principles coupled with durability enhancements for demanding military and industrial applications. It is well suited for small high performance transport vehicles (ATVs & riverine craft), generator/APU applications, hydraulic power units, and pumps.

- ▶ Fuel efficient high-pressure common rail injection
- ▶ Advanced electronic engine controls
- ▶ Quiet multi-pulse combustion
- ▶ Wide, smooth powerband
- ▶ Lightweight aluminum engine
- ▶ Silent self-adjusting zero lash valvetrain
- ▶ Low maintenance electric water pump
- ▶ Designed for Jet A, JP-5, JP-8, and diesel fuels
- ▶ Front-mount PTO/ISA drive interface at crankshaft speed

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## AMD45 / 3-Cylinder, 1.25 L, Turbodiesel

Specifications	
Engine Type	1.25 liter, liquid cooled, 4-stroke, inline 3 cylinder
Aspiration	Turbocharged, 17 psig (1.18 bar) maximum boost pressure
Valvetrain	Hydraulic direct acting bucket tappets, 2 valves per cylinder, SOHC
Fuel System	Multi-pulse direct injection, common-rail, electronically controlled fuel injection
Fuel Type	Diesel (DL-2), JP-8, JP-5, Jet A
Engine Weight	196 lbs (88.9 kg) without flywheel/flexplate
Power Take Off (PTO)	Accessories of up to 40 hp and 4500 rpm can be driven from the crankshaft end opposite the vehicle drive system
Hybrid Ready	PTO can drive components and/or be driven by them up to 40 hp. Driven power is directly added to available vehicle power.
Starting	Glow plugs are centrally located in the combustion chamber for quick cold weather starts
Durability	Designed for 8000 hours MTBEFF in stationary use applications
Maintenance	All mechanical devices are self-adjusting, only oil and filter changes are required
Performance	
Maximum Speed	4500 rpm
Maximum Speed	75 hp (56 kW) from 4000-4500
Maximum Speed	Over 100 ft-lb (136 N-M) from 2500-4000 rpm

