

FMTV A1

3 tonne Utility Variant

The Family of Medium Tactical Vehicles (FMTV) provides the U.S. Army's backbone for tactical unit mobility and logistics support throughout the battlefield. The FMTV Utility Variant has 99% commonality with the existing U.S. Army FMTV fleet of over 36,000 vehicles. These vehicles are considered the most sophisticated off-road, multi-purpose military tactical vehicles in use, and are capable of operating worldwide on primary and secondary roads, as well as on trails and cross-country in weather extremes from -50°F (-46°C) to +120°F (49°C).



FMTV A1 R FEATURES

- Full-time all-wheel drive
- Fully automatic transmission
- Electronic Central Tire Inflation System (CTIS)
- Anti-lock Braking System (ABS)
- Interactive Electronic Technical Manuals (IETM)
- Fully MANPRINT compliant
- C-130 air transportable
- U.S. Army proven ultra-reliability
- Family of 16+ vehicles with 80% commonality
- U.S. Army certified 22-year corrosion protection
- Highest proven reliability of any tactical vehicle

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VEHICLE SPECIFICATIONS

Length:	253 in (6,426 mm)
Width:	96 in (2,438 mm)
Height:	
Operational (with Shelter)	120 in (3,048 mm)
For Air Transport	105.5 in (2,680 mm) (Requires Preparation)
Height-Pintle:	
Unloaded	36 in (905 mm)
With Payload	33.5 in (851 mm)
Wheel Base:	153.5 in (3,900 mm)
Ground Clearance:	
Loaded	22 in (559 mm)
Under Axle	14.4 in (365 mm)
Approach/Departure Angle:	40°/37°
Vehicle Curb Weight with Fuel:	20,000 lb (9,090 kg)
Payload:	6,600 lb (3,000 kg) plus kits
Towed Load:	12,000 lb (5,443 kg)
Maximum Speed:	
Governed, at Gross Weight	70 mph (116 km/h)
Range, 58 gal (219 L) Nominal:	400+ mi (645+ km)
Optional Tank	600 mi (960 km)
Maximum Grade/Side Slope:	60%/30%
Turning Circle:	
Curb-to-Curb	61.7 ft (18.8 m)
Wall-to-Wall	65.7 ft (20 m)
Fording, without Kit:	30 in (762 mm)
Shelters:	Designed to Mount Existing Shelters S832, S842, S788, CPP (Command Post Platform)

EQUIPMENT SPECIFICATIONS

Cab:	Low Signature Armored Cab (LSAC) or LTAS A & B Kit
Design	3-Man, Ergonomically Adjustable Driver Seat and Steering Wheel
Steering	Power Assisted, Recirculating Ball
Storage	8 cu ft (2.4 cu m)
Suspension	3-Point Rubber Isolator
Engine:	
Caterpillar C7	Heavy Duty Diesel, 6-Cylinder, Electronic Controlled, Fuel-Injected Turbocharged and Aftercooled, EPA Certified
Rating	275 hp (205 kW) @ 2200 rpm
Displacement	441 cu in (7.2 L)
Torque	860 lb-ft (1,166 Nm) @ 1440 rpm
Fuel	Diesel, DF-2, JP-4, JP-8, VV-F-800
Oil	MIL-L-2104D, MIL-L-46167, 22 qt (21 L)
Transmission:	
Allison 3700SP	Automatic/Select 7-speed, Electronically Controlled
Full-Time All-Wheel Drive	Integral Transfer Case
Normal Operation	30% Torque Front Wheels, 70% Torque Rear Wheels; Off-Road, Equal Front and Rear
Oil	MIL-L-2104D, MIL-L-46167, 31.8 qt (30 L)
Axles:	
ArvinMeritor Carrier	Front and Rear Axles
Wheel End	Single Reduction, Amboid-Gearing Bevel Wheel End Reduction, Ratio 2:1
Overall Axle Gear Ratio	6.14
Front Axle Steering Angle	35°
Electrical:	
System	12/24 volt, EMI/HAEMP Qualified, Resettable Circuit Breakers, Central Power Distribution Panel, Battery and Charging Management System
Alternator	260 amp, 12/24 volt, Waterproof, EMI/RFI Suppressed
Starter	24 volt Waterproof
Instrumentation	SAE J1708 Data Bus Driven Instrument Cluster
Tires:	Michelin 395/85R20XML All-Terrain or Goodyear

Brakes:	
Primary	Dual-Circuit, Four Channel Air, Anti-Lock Braking System (ABS) with Trailers ABS Connectors for Emergency Towing
Supplemental	Air Actuated, Driver Controlled Exhaust Brake
Central Tire Inflation System, Eaton:	
	Cab-Mounted Electronic Controls, Operable While Driving Highway, Cross-Country, Air Transport, Sand/Mud/Snow, and Emergency Modes
Diagnostics, Interactive Electronic Technical Manuals (IETM):	
	Class V, Intrusive Diagnostics, SAE J1708/J1939 Data Buses to Diagnose All (4) Unique Electronic Control Modules (ECM)
Suspension:	
Front	Parabolic-Tapered Leaf Spring with Coil over Hydraulic Shock Absorbers
Rear	Parabolic-Tapered Leaf Spring with Hydraulic Shock Absorbers and Stabilizer Bar
Transportability/Deployability:	
Internally	Air-transportable by C-130 and C-141 (with Preparations), C-17 and C-5A at GVW
Externally	Transportable by CH-47 and CH-53 Helicopters
Self Recovery Winch: (Optional)	18,000 lb (8,182 kg) Front Mounted
Cargo Deck:	Can Be Mounted in Lieu of Shelter 96 x 91 in (2,438 x 2,311 mm)

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