

M1165A1 HMMWV



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M1165A1 HMMWV

OVERVIEW



PERFORMANCE

The M1165 is an Expanded Capacity Command and Control/General Purpose HMMWV. It is a four-man vehicle which can be used for a variety of missions, from command and control to armed patrol, and is available with an optional Weapons Mount and Turret. It is also produced as a customized model for special operations.

HMMWV is the world-standard family of light, tactical vehicles. It is a lightweight, high-performance, independent four-wheel drive, versatile and adaptable platform that currently supports more than 100 different systems.

PAYLOAD

As an Expanded Capacity Vehicle, the M1165 is specifically designed for use over all types of roads, as well as cross-country terrain, and in all weather conditions without sacrificing

mobility, dependability or performance. The M1165 payload varies by armor configuration and fragmentation kit, ranging from 2,230 to 4,950 lb. The M1165 is air transportable and droppable, and can be sling-loaded by helicopter.

PROTECTION

The M1165 provides superior protection for crew, weapons components, and ammunition. The armor is available in two kits: The "A" kit, which can be factory installed, and optional "B" kit, which when combined, provide gapless mine and ballistic protection. The additional armor and fragmentation kits are field installable and removable to provide flexibility for missions that do not require heavy protection. The vehicles are equipped with an A/C system to provide greater crew comfort.

M1165A1 includes standard:

- Underbody armor
- Rocker armor
- Lower windscreen deflector armor
- Energy absorbing seats

M1165A1 w/B3: Plant or Field Installable B3 Kit includes:

- Perimeter armor
- Overhead armor
- Rear ballistic bulkhead
- Note: Aluminum roof/rear panel is required with B3 Kit.

Optional Frag Kits:

- Frag 1: Side and door perimeter protection
- Frag 2: Front cowl, and wheel well protection
- Frag 5: Door and SMCL (Single Movement Combat Lock)

SPECIFICATIONS

GVW	M1165: 11,500 lb. (5,216 kg)
	M1165A1: 12,100 lb. (5,488 kg)
	M1165A1 w/B3: 12,100 lb. (5,488 kg)
Payload	M1165: 4,950 lb. (2,245 kg)
	M1165A1: 4,870 lb. (2,209 kg)
	M1165A1 w/B3: 2,230 lb. (1,102 kg)
Curb Weight	M1165: 6,550 lb. (2,971 kg)
	M1165A1: 7,230 lb. (3,279 kg)
	M1165A1w/B3: 9,870 lb. (4,477 kg)

M1165A1 SPECIFICATIONS

Towed Load Allowance	4,200 lb. (1,905 kg)
Shipping Dimensions	745 cubic ft. (21.10 cubic m) 117 sq ft. (10.87 sq m) 194.0 in. (4.93 m) Length 87.0 in. (2.21 m) Width 76.25 in. (1.94 m) Height
Center of Gravity (at curb weight)	30.2 in. (76.71 cm) Above Ground 60.4 in. (1.53 m) Rear of Centerline at Front Axle

Track Width	71.6 in. (1.82 m)
Wheelbase	130 in. (3.30 m)
Turning Radius	25 ft. (7.62 m)
Ground Clearance	18.2 in. (46.23 cm)
Angle of Approach	48.0°
Angle of Departure	40.0°
Ramp Breakover Angle	25°
Grade Capability (at GCW)	40%
Side Slope Capability (at GCW)	30%
Climb Capability (at GCW)	18 in. (45.72 cm) Vertical Step
Cargo Bed Height (at GCW)	38.5 in. (97.79 cm)
Engine	General Engine Products (GEP) V8, 6.5L Turbocharged Diesel
Horsepower	@ 3,400 RPM: 190HP (142KW)
Torque	@ 1,700 RPM: 380 lb.-ft (515 N•m)

Transmission	General Transmission Products (GTP) 4-Speed Automatic
Transfer Case	2 Speeds Ratios: High - 1:1; Low - 2.72:1
Differentials	Front and Rear - Hypoid Ratios 3.08:1
Frame	Steel Box Section 5 Crossmembers
Front Suspension	Independent Double A-Frame; Coil Spring; Telescopic Shock Absorbers
Rear Suspension	Independent Double A-Frame; Coil Spring; Rate - Variable; Telescopic Shock Absorbers
Geared Hub	Ratios: 1.92:1
Wheels	Two-Piece Take Apart; 16.5 x 8.25 x 6.5 BC
Tires	Non-Directional Cross-Country Tread; 37 x 12.5R-16.5; Load Range: E

Service Brakes	Type: Disc - Front & Back Dual Master Cylinder with Hydroboost; Rotor Size - 306.8 mm Dia.; 24-mm Thick; Lining Area - 11.5 in. (89.2 in. Total)
Parking Brakes	Dual Disc, Independent, Hand-Operated Lever
Electrical System	Dual Voltage 14V/28V
Fuel Capacity	25 gal. (95 L)
Performance	250 mile (402 km) Cruising Range
Maximum Speed	70 mph (113 kph)
Deep Water Fording	30 in. (0.76 m), 60 in. (1.52 m) w/ Kit
Run Flat Capability	30 miles @ 30 mph (48 km @ 48 kph)
Transportability Modes	Highway, Rail, Marine, and Air