

# Medium Tank M4A2(76)W

## GENERAL DATA

Crew:	5 men
Length: Gun forward w/sandshields and muzzle brake	298 inches
Length: Gun to Rear w/sandshields and muzzle brake	287 inches
Length: w/o Gun, w/Sandshields	248 inches
Gun Overhang: Gun forward and muzzle brake	50 inches
Width: w/sandshields	118 inches
Height: Over cupola	117 inches
Tread:	89 inches
Ground Clearance:	17 inches
Fire Height:	90 inches
Turret Ring Diameter: (inside)	69 inches
Weight Combat Loaded:	73,400 pounds *
Weight Unstowed:	67,300 pounds*
Power to Weight Ratio:	Net 10.2 hp/ton Gross 11.2 hp/ton
Ground Pressure: Zero penetration	15.1 psi

\*all weights based on T48 or T51 tracks

## ARMOR

Type: Turret, cast homogeneous steel; Hull, rolled and cast homogeneous steel; Welded assembly

Hull Thickness:	Actual	Angled w/Vertical
Front, Upper	2.5 inches	47 degrees
Lower	4.25 to 2.0 inches	0 to 56 degrees
Sides	1.5 inches	0 degrees
Rear	1.5 inches	10 to 22 degrees
Top	0.75 inches	83 to 90 degrees
Floor, Front	1.0 inches	0 degrees
Rear	0.5 inches	90 degrees
<b>Turret Thickness: T23 Turret</b>		
Gun Shield	3.5 inches	0 degrees
Front	2.5 inches	40 to 56 degrees
Sides	2.5 inches	0 to 13 degrees
Rear	2.5 inches	0 degrees
Top	1.0 inches	90 degrees

## ARMAMENT

Primary: 76mm Gun M1A1, M1A1C, or M1A2 in mount M62 in turret  
 Traverse: Hydraulic and Manu 360 degrees  
 Traverse Rate: (max) 15 seconds/360 degrees  
 Elevation: Manual -25 to -10 degrees  
 Tiring Rate: (max) 20 rounds/minute  
 Loading System: Manual  
 Stabilizer System: Elevation only

### Secondary:

- (1) .50 caliber MG HB M2 flexible AA mount on turret
- (1) .30 caliber MG M1919A4 coaxial w/75mm gun in turret
- (1) .30 caliber MG M1919A4 in bow mount
- (1) 2 inch smoke Mortar (smoke) fixed in turret
- Provision for (5) .45 caliber SMG M3

## AMMUNITION

71 rounds of 76mm	12 hand grenades
600 rounds .50 caliber	18 rounds 2 inch smoke
900 rounds .45 caliber	
6250 rounds .30 caliber	

## FIRE CONTROL AND VISION EQUIPMENT

Primary Weapon:	Direct	Indirect
	Telescope M71D	Azimuth Indicator M19
	Periscope M4A1 with	Gunner's Quadrant M1
	Telescope M47A2	Elevation Quadrant M9
Vision Devices:	Direct	Indirect
Driver	Hatch	Periscope M6 (2)
Asst. Driver	Hatch	Periscope M6 (2)
Commander	Vision cupola	Periscope M6 (1)
Gunner	None	Periscope M4A1 (1)
Loader	Hatch and Pistol Port	Periscope M6 (1)
Total Periscopes: M4A1 (1), M6 (6)		
Total Pistol Ports: Hull (0), Turret (1)		
Vision Cupolas: (1) w/6 vision blocks on turret top		

## ENGINE

Make and Model: General Motors 6046  
 Type: 12 cylinder, 2 cycle, Twin In-Line 6  
 Cooling System: Liquid Ignition: Compression  
 Displacement: 1850 cubic inches  
 Bore and Stroke: 4.25 X 5 inches  
 Compression Ratio: 16:1  
 Net Horsepower (max): 375 hp at 2100 rpm  
 Gross Horsepower (max): 410 hp at 2900 rpm  
 Net Torque (max): 1000 ft-lb at 1400 rpm  
 Gross Torque (max): 885 ft-lb at 1900rpm  
 Weight: 5110 lb. dry  
 Fuel: 40 Cetane diesel oil 148 gallons  
 Engine Oil: 28 quarts

## POWER TRAIN

Clutch: Dry disc, 2 plate  
 Transfer Case Gear Ratio: 0.73:1  
 Transmission: Synchronesh, 5 speeds forward, 1 reverse  
 Gear Ratios: 1<sup>st</sup> 7.56:1 4<sup>th</sup> 1.11:1  
 2<sup>nd</sup> 3.11 5<sup>th</sup> 0.73:1  
 3<sup>rd</sup> 1.78 Reverse 5.65:1  
 Steering: Controlled differential  
 Bevel Gear Ratio: 3.53:1 Steer Ratio: 1.5515:1  
 Brakes: Mechanical, external contracting  
 Final Drive: Herringbone gear Gear ratio: 2.84:1  
 Drive Sprocket: At front of vehicle with 13 teeth  
 Pitch Diameter: 25.038 inches

## RUNNING GEAR

Suspension: Vertical volute Spring  
 12 wheels in 6 bogies (3 bogies/track)  
 Tire Size: 20 X 9 inches  
 4 Dual track return rollers (2/tracks)  
 6 return rollers (1 at rear of each bogie)  
 Adjustable idler at rear of each track  
 Idler Size: 22 X 9 inches

Tracks: Outside guide: T48, T49, T51 and T54E1

Type: (T48) Double pin, 16.56 inch width, chevron, rubber  
 (T49) Double pin, 16.56 inch width, parallel bar, steel  
 (T51) Double pin, 16.56 inch width, smooth, rubber  
 (T54E1) Double pin, 16.56 inch width, Chevron, steel  
 Pitch: 6 inches  
 Shoes per Vehicle: 158 (79/track)  
 Ground Contact Length: 147 inches

## ELECTRICAL SYSTEM

Nominal Voltage: 24 volts DC  
 Main Generator: (1) 30 volts, 50 amperes, driven by power take-off from main engine  
 Auxiliary Generator: (1) 30 volts, 50 amperes, driven by the auxiliary engine  
 Battery: (2) 12 volts in series

## COMMUNICATIONS

Radio: SCR 508, 528 or 538 in rear of turret; SCR 506 (command tank only) in right front sponson  
 Interphone: (part of radio) 5 stations  
 Flag Set M238, Panel Set AP50A, Spotlight, Siren  
 Flares: 3 each, M17, M18, M19, and m21 (command tanks only)  
 Ground Signals Projector M4 (command tanks only)

## FIRE AND GAS PROTECTION

- (2) 10 carbon dioxide, fixed
- (2) 4 pound carbon dioxide, portable
- (2) 1 1/2 Quart decontaminating apparatus

## PERFORMANCE

Maximum Speed: Sustained, level road 25 miles/hour  
 Short periods, level road 30 miles/hour  
 Maximum Grade: 60 percent  
 Maximum Trench: 7.5 feet  
 Maximum Vertical Wall: 24 inches  
 Maximum Forging Depth: 40 inches  
 Minimum Turning Circle: (diameter) 62 feet  
 Cruising Range: Roads approx. 100 miles

