

Medium Tank M4A2(76)W HVSS

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:	77,200 pounds *
Weight Unstowed:	71,100 pounds*
Power to Weight Ratio:	Net 10.2 hp/ton Gross 11.2 hp/ton
Ground Pressure: Zero penetration	11.0 psi

*all weights based on T66 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

Turret Thickness: T23 Turret

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 st 7.56:1 4 th 1.11:1 2 nd 3.11 5 th 0.73:1 3 rd 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: Horizontal volute Spring
12 dual wheels in 6 bogies (3 bogies/track)
Tire Size: 20 X 6.25 inches
4 Dual track return rollers (2/tracks)
6 single track return rollers (1 at rear of each bogie)
Dual adjustable idler at rear of each track
Idler Size: 22 X 6.25 inches
Shock absorbers fitter on each bogie
Tracks: Center guide: T66, T80, and T84
Type: (T66) Single pin, 23 inch width, chevron, cast steel
(T80) Double pin, 23 inch width, rubber and steel
(T84) Double pin, 23 inch width, rubber
Pitch: 6 inches
Shoes per Vehicle: 158 (79/track)
Ground Contact Length: 151 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	26 miles/hour
Maximum Grade:	60 percent
Maximum Trench:	7.5 feet
Maximum Vertical Wall:	24 inches
Maximum Fording Depth:	40 inches
Minimum Turning Circle: (diameter)	62 feet
Cruising Range: Roads	approx. 100 miles

