## Medium Tank M4A3(76)W HVSS

GENERAL DATA Crew: 5 men		ENGINE  Make and Model: Ford GAA			
Length: Gun forward w/sandshields and muzzle brake 297 inches		Type: 8 cylinder, 4 cycle, 60 degree V8			
Length: Gun to Rear w/sandshields and muzzle brake 297 inches 287 inches		Cooling System: Liquid <u>Ignition:</u> Ma			
Length: w/o Gun, w/Sandshields	247 inches	Displacement:	1100 cubic inches		
Gun Overhang: Gun forward and muzzle bra	ike 50 inches	Bore and Stroke:	5.4 X 6 inches		
Vidth: w/sandshields	118 inches	Compression Ratio: Net Horsepower (max)	7.5:1		
Height: Over cupola 117 inches		Gross Horsepower (max):	450 hp at 2600 rpm 500 hp at 2600 rpm		
Fread: 89 inches		Net Torque (max): 950 ft-lb at 2200 rpm			
Ground Clearance: 17 inches		Gross Torque (max): 950 kHz at 2200 rpm			
Fire Height: 90 inches		Weight: 1560 lb. dry			
Furret Ring Diameter: (inside)	69 inches	Fuel: 80 octane gasoline	168 gallons		
Weight Combat Loaded:	74,200 pounds *	Engine Oil:	32 quarts		
Veight Unstowed: Power to Weight Ratio: Net	68,100 pounds*	6	- 1		
Power to Weight Ratio: Net Gross	12.1 hp/ton 13.5 hp/ton	POWER TRAIN			
Ground Pressure: Zero penetration	13.5 np/ton 11.0 psi	Clutch: Dry disc, 2 plate			
fall weights based on T66 tracks	11.0 psi	Transmission: Synchromesh, 5 speeds for	ward, 1 reverse		
_		Gear Ratios: 1 <sup>st</sup> 7.56:1	4 <sup>th</sup> 1.11:1		
ARMOR		<b>2<sup>nd</sup></b> 3.11	5 <sup>th</sup> 0.73:1		
Type: Turret, cast homogeneous steel; Hull,	rolled and cast	3 <sup>rd</sup> 1.78	Reverse 5.65:1		
nomogeneous steel; Welded assembly		Steering: Controlled differential			
Hull Thickness: Actual	Angled w/Vertical	Bevel Gear Ratio: 3.53:1	Steer Ratio: 1.5515:1		
Front, Upper 2.5 inches	47 degrees	Brakes: Mechanical, external contracting	~		
Lower 4.25 to 2.0 inches	0 to 56 degrees	Final Drive: Herringbone gear	Gear ratio: 2.84:1		
Sides 1.5 inches Rear 1.5 inches	0 degrees	Drive Sprocket: At front of vehicle with 13	s teetn		
	10 to 22 degrees	Pitch Diameter: 25.038 inches			
Cop 0.75 inches Floor, Front 1.0 inches	83 to 90 degrees 0 degrees	DUNNING CE 4 P			
Rear 0.5 inches	90 degrees	RUNNING GEAR			
Furret Thickness: T23 Turret			Suspension: Horizontal volute Spring		
Gun Shield 3.5 inches	0 degrees	12 dual wheels in 6 bogies (3 bogies/ Tire Size: 20 X 6.25 inches	track)		
Front 2.5 inches	40 to 56 degrees	4 Dual track return rollers (2/tracks)			
Sides 2.5 inches	0 to 13 degrees	6 single track return rollers (2 rear of each bogie)			
Rear 2.5 inches	0 degrees	Dual adjustable idler at rear of each to			
Top 1.0 inches	90 degrees	Idler Size: 22 X 6.25 inches			
		Shock absorbers fitter on each bogie			
ARMAMENT		Tracks: Center guide: T66, T80, and T84			
Primary: 76mm Gun M1A1, M1A1C, or M	I1A2 in mount M62 in	Type: (T66) Single pin, 23 inch width	h, chevron, cast steel		
turret		(T80) Double pin, 23 inch wid			
Traverse: Hydraulic and Manu 360 degrees		(T84) Double pin, 23 inch wid			
Traverse Rate: (max)	15 seconds/360 degrees	• • • • • • • • • • • • • • • • • • • •			
Elevation: Manual	-25 to -10 degrees	Pitch: 6 inches			
Tiring Rate: (max)	20 rounds/minute	Shoes per Vehicle: 158 (79/track)			
Loading System:	Manual	Ground Contact Length: 151 inches			
Stabilizer System:	Elevation only				
Secondary:		ELECTRICAL SYSTEM			
1) .50 caliber MG HB M2 flexible AA mou		Nominal Voltage: 24 volts DC			
(1) .30 caliber MG M1919A4 coaxial w/75mm gun in turret		Main Generator: (1) 30 volts, 50 amperes, driven by power take-off from			
1) .30 caliber MG M1919A4 in bow mount		main engine			
(1) 2 inch smoke Mortar (smoke) fixed in turret		Auxiliary Generator: (1) 30 volts, 50 amperes, driven by the auxiliary			
Provision for (5) .45 caliber SMG M3		engine			
AMMUNITION		Battery: (2) 12 volts in series			
71 rounds of 76mm	12 hand grenades	COMMINICATIONS			
600 rounds .50 caliber 18 i	rounds 2 inch smoke	COMMUNICATIONS  Padia: SCR 50% 52% on 52% in man of the	numet. CCD FOC ( 1: 1		
900 rounds .45 caliber		Radio: SCR 508, 528 or 538 in rear of tu	irret; SCR 506 (command tank		
6250 rounds .30 caliber		only) in right front sponson			
FIDE CONTROL AND VISION FOLLIPA	/FNT	Interphone: (part of radio) 5 stations	iaht Sinan		
FIRE CONTROL AND VISION EQUIPMENT Primary Weapon: Direct Indirect		Flag Set M238, Panel Set AP50A, Spotlight, Siren			
Primary Weapon: Direct Indirect Telescope M71D Azimuth Indicator M19		Flares: 3 each, M17, M18, M19, and m21 (command tanks only) Ground Signals Projector M4 (command tanks only)			
Periscope M4A1 with	Gunner's Quadrant M1	Ground Signals Frojector 1914 (Command	i tains offiy)		
Telescope M47A2	Elevation Quadrant M9	FIRE AND GAS PROTECTION			
Vision Devices: Direct	Indirect	(2) 10 carbon dioxide, fixed			
Driver Hatch	Periscope M6 (2)	(2) 4 pound carbon dioxide, portable			
Asst. Driver Hatch	Periscope M6 (2)	(2) 1 ½ Quart decontaminating apparatus	s		
Commander Vision cupola	Periscope M6 (1)	(2) 1 /2 Zame decontainmating apparatus	-		
1	Periscope M4A1 (1)	PERFORMANCE			
Gunner None	Periscope M6 (1)	Maximum Speed: Sustained, level road	26 miles/ho		
		Maximum Grade:	60 perce		
Loader Hatch and Pistol Port					
Loader Hatch and Pistol Port Fotal Periscopes: M4A1 (1), M6 (6)		Maximum Trench:	7.5 f		
Loader Hatch and Pistol Port Fotal Periscopes: M4A1 (1), M6 (6) Fotal Pistol Ports: Hull (0), Turret (1)	et top	Maximum Trench: Maximum Vertical Wall:			
Loader Hatch and Pistol Port Fotal Periscopes: M4A1 (1), M6 (6) Fotal Pistol Ports: Hull (0), Turret (1)	et top		24 incl		
	et top	Maximum Vertical Wall:	24 inch 36 inch		
Loader Hatch and Pistol Port Fotal Periscopes: M4A1 (1), M6 (6) Fotal Pistol Ports: Hull (0), Turret (1)	et top	Maximum Vertical Wall: Maximum Fording Depth:	7.5 ft 24 inch 36 inch 62 fe approx. 100 mil		