

Assault Tank M4A3E2(75)W “Jumbo”

GENERAL DATA

Crew: 5 men
 Length: Gun forward w/ Sandshields 247 inches
 Length: Gun to Rear w/ Sandshields 247 inches
 Length: w/o Gun, w/ Sandshields 247 inches
 Gun Overhang: Gun forward 0 inches
 Width: w/ Sandshields 115.6 inches
 Height: Over Turret cupola 116.3 inches
 Tread: 83 inches
 Ground Clearance: 17 inches
 Fire Height: 90 inches
 Turret Ring Diameter: (inside) 69 inches
 Weight Combat Loaded: 84,000 pounds *
 Weight Unstowed: 77,500 pounds *
 Power to Weight Ratio: Net 10.7 hp/ton
 Gross 11.9 hp/ton
 Ground Pressure: Zero penetration 14.2 psi

*all weights based on T48 with duckbill end connectors

ARMOR

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

Hull Thickness:	Actual	Angled w/Vertical
Front, Upper	4.0 inches	47 degrees
Lower	5.5 to 4.5 inches	0 to 56 degrees
Sides Upper	3.0 inches	0 degrees
Lower	1.5 inches	0 degrees
Rear	1.5 inches	0 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:		
Gun Shield	7.0 inches	0 degrees
Front	6.0 inches	12 degrees
Sides	6.0 inches	6 degrees
Rear	6.0 inches	2 degrees
Top	1.0 inches	90 degrees

ARMAMENT

Primary: 75mm Gun M3 in Mount T110 in Turret
 Traverse: Hydraulic and Manual 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

104 rounds of 75mm 12 hand grenades
 600 rounds .50 caliber 18 rounds 2 inch smoke
 900 rounds .45 caliber
 6750 rounds .30 caliber

FIRE CONTROL AND VISION EQUIPMENT

Primary Weapon: Direct Indirect
 Telescope M71G Azimuth Indicator M20
 Periscope M4A1 with Gunner's Quadrant M1
 Telescope M38 Elevation Quadrant M9

Vision Devices: Direct Indirect
 Driver Hatch Periscope M6 (2)
 Asst. Driver Hatch Periscope M6 (2)
 Commander Vision cupola and Hatch Periscope M6 (1)
 Gunner None Periscope M4A1 (1)
 Loader 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: Ford GAA
 Type: 8 cylinder, 4 cycle, 60 degree vee
 Cooling System: Liquid Ignition: Magneto
 Displacement: 1100 cubic inches
 Bore and Stroke: 5.4 X 6 inches
 Compression Ratio: 7.5:1
 Net Horsepower (max) 450 hp at 2600 rpm
 Gross Horsepower (max): 500 hp at 2600 rpm
 Net Torque (max): 950 ft-lb at 2200 rpm
 Gross Torque (max): 1040 ft-lb at 2200 rpm
 Weight: 1560 lb. dry
 Fuel: 80 octane gasoline 168 gallons
 Engine Oil: 32 quarts

POWER TRAIN

Clutch: Dry disc, 2 plate
 Transmission: Synchronesh, 5 speeds forward, 1 reverse
 Gear Ratios: 1st 7.56:1 4th 1.11:1
 2nd 3.11 5th 0.73:1
 3rd 1.78 Reverse 5.65:1
 Steering: Controlled differential
 Bevel Gear Ratio: 3.53:1 Steer Ratio: 1.551:1
 Brakes: Mechanical, external contracting
 Final Drive: Herringbone gear Gear ratio: 3.36:1
 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
 6 track 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
 (T51) Double pin, 16.56 inch width, smooth, rubber
 Total Track Width: 20.1 inches with extended end connectors
 Pitch: 6 inches
 Shoes per Vehicle: 158 (79/track)
 Ground Contact Length: 147 inches

ELECTRICAL SYSTEM

Nominal Voltage: 24 volts DC
 Main Generator: (1) 24 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)
 *early vehicles may be equipped with SCR 245

FIRE AND GAS PROTECTION

- (2) 10 carbon dioxide, fixed
- (2) 4 pound carbon dioxide, portable
- (2) 1 ½ Quart decontaminating apparatus

PERFORMANCE

Maximum Speed: Sustained, level road 22 miles/hour
 Maximum Grade: 60 percent
 Maximum Trench: 7.5 feet
 Maximum Vertical Wall: 24 inches
 Maximum Fording Depth: 36 inches
 Minimum Turning Circle: (diameter) 74 feet
 Cruising Range: Roads approx. 100 miles

