TALPO IT
suspensions and tracks. The suspension is of the horizontal volute spring type, with three bogies on each side. The tracks are 23 inches wide and have center guides.

Power is supplied by a Continental R-975-C4 engine through a constant mesh synchronized transmis An that provides five speeds forward and one reverse.

The vehicle has stowage for 20 rounds of 155 mm ammunition, including propelling charges, primers and fuzes, and for small arms ammunition and grenades.

The differential and final dive rough used is the same as for M4 Series tanks, varying from 4 inches to $2\frac{1}{2}$ inches in thickness. Side armor below the fender line is 1-inch and other armor is 1/2-inch. It has, in addition, gun shields of 1/2-inch armor plate.

The 155 mm Gun Motor Carriage M40 (T83) has a maximum speed of 24 m.p.h. and a cruising range of approximately 150 miles.

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UNCLASSTAFPO.IT TALPO.IT TALPO.IT CHARACTERISTICS

Crew8
Physical Characteristics: Weight (gross) TALPO T 83,000 lb. Length, Hull 21 ft., 9 in. 30 ft. Over-all, with armament 30 ft. 10 ft., 4 in. Height (center line of bore) 8 ft., 6 in. 17 in. Ground Clearance 17 in. 101 in. Ground contact length 101 in. 173 in. Ground pressure TALPO T 10.4 lb./sq. in.
Armament:
155 mm Gun M1A1 or M2 in Mount M13 (T14) Elevation
Provision for: Cal. ,30 carbines Grenade Launcher M8 TALPOIT 8
UNGLASSIFILU
TALPO.IT

PO.IT	
Actual	Basis
	11/4 in.
	4 in.
1 in.	1 in.
	½ in.
1/2 in.	1/2 in.
	1 in.
1/2 in.	1/2 in.
	3/4 in.
	Actual 1/2 in. 4 in21/2 in. 1 in. 1/2 in. 1/2 in. 1/2 in. 1/2 in. 1/2 in.

,33	Trench crossing ability 7 ft., 8 in Vertical obstacle ability 34 in	
ij,	Fording depth (slowest forward speed) 36 in Fuel capacity 200 ga	n.
3		
P	Vision and Fire Control: TALPO.IT	
	Periscope M6	2
	Panoramic Telescope M12, w/Instrument Light M19, on Telescope Mt. M75 (T122)	1
	Telescope M69F w/Instrument Light M36, on Telescope Mt. M75 (T122)	1
	Elbow Telescope M16A1F (T135) w/Instrument Light M36, on Telescope Mt. M71 (T124). Quadrant Mount M1, w/Instrument light M19	1
	Quadrant Mount M1, w/Inst un en Ligh M12	1
	Engine, Make and Model	
	No. of cylinders	9
	Fuel (gasoline) TAIPOIT80 octan	1e

TALPO.IT

Gross hp. Max. torque	
Transmission: Type	
Radio ALPOIT	SCR-608, 610, 619, or British No. 19
Battery: Voltage, total	24
Fire Protection and Decontamination: Fire Extinguisher Co. 10 lb (fixed)	2
Suspension: Type	Horizontal volute spring
Dis-L	
TALPOIT	

TALPO.IT

Vertical obstacle ability Fording depth (slowest forward speed)	
Vision and Fire Control: TALPO.I	150 miles
Periscope M6 Panoramic Telescope M12, w/Instrument Light M19, on Telescope Mt. M75 (T122) Telescope M69F w/Instrument Light M36, on Telesco Elbow Telescope M16A1F (T135) w/Instrument Light on Telescope Mt. M71 (TT24) Quadrant Mount M1, w/Instrument Light Quadrant Mount M1, w/Instrument Light Quadrant Mount M1, w/Instrument Light Quadrant Mount M1	9 pe Mt. M75 (T122) 1
Engine, Make and Model Type No. of cylinders Fuel (gasoline) TALPO.I	

TALPO.IT

Gross hp Max, torque	
Transmission: Type	Constant mesh, synchronized
Radio ALPO IT	SCR-608, 610, 619, or British No. 19
Battery: Voltage, total	24
Fire Protection and Decontamination: Fire Extinguisher Con-10 lb (fixed). Suspension: Type	2 2 Horizontal volute spring
Track: Type	

TALPO.IT

TATAKPO.IT
HEAVYALPO.IT
(T26E3)
TALPO.IT

TALPO.IT

TALPO.IT

This vehicle was designed to provide a tank with mobility comparable to the Medium Tank, M4 Series, but with considerably more firepower and armor protection. The heavy armor allows this vehicle to be employed close to the targets being en Aged.

Compact in design, it is lower and wider than Heavy Tanks M6 and M6A1, and is not as heavy. It has greater firepower and heavier armor, and has better mobility and maneuverability.

Weighing 46 tons, the vehicle has a ground pressure of only 12.7 lb./sq. in. and can be operated at specds up to 25 m.p.h. The unit ground pressure can be reduced to 10.9 lb./sq. in. by using the T80E1 type track with extended end connectors. It will climb a 60% grade and will cross a trench 7 feet 11 inches wide.

Principal armament is a 90 mm Gun M3, mounted coaxially with a Cal. .30 Machine Au M10 A in the turret. These guns can be depressed to -10° and elevated to $+20^{\circ}$ and can be traversed through 360°, either

manually or by power. The 90 mm Gun is equipped with a muzzle brake. The suspension is of the individually sprung torsion bar type, with bunder springs and double-acting shock absorbers to give additional protection. This type of suspension provides a more stable firing platform. A center guided track, 23 or 24 helps in used.

Power is supplied by a Ford GAF gasoline engine through a torqmatic transmission and a controlled differential, the tracks being driven by sprockets at the rear.

TALPO.IT

TALPO.IT



TALPO IT The San Comment

CARRIAGO,IT MOTOR PAPAMEN **GUN, M36** TALPO.IT

TALPO.IT

This is a modification of the 3-inch Gun Motor Carriage, M10A1, designed to provide a more powerful self-propelled antitank gun. This weapon may be advantageously utilized for direct fire against reinforced concrete or log and/or earth unkers or cives.

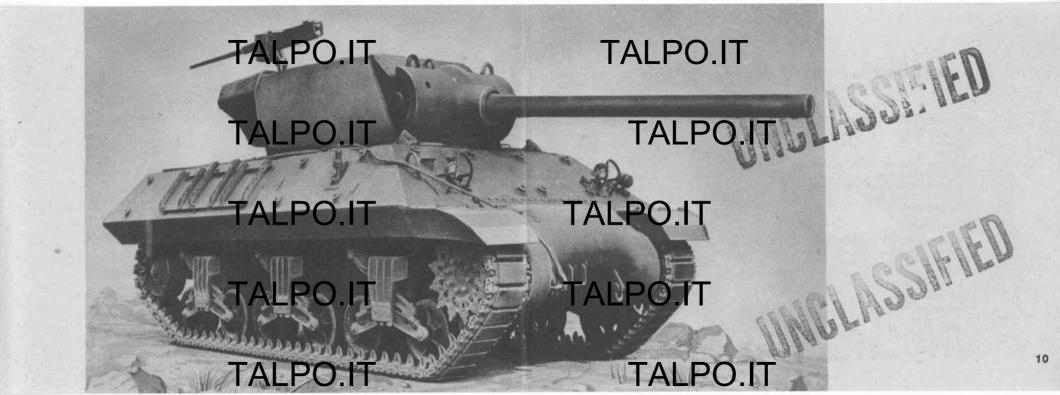
Principal weapon is the 90 mm Gun, M3 in 90 mm Gun Mount, M4A1, in a turret with 360° power traverse. The gun has a muzzle brake.

Essentially the same hull and chassis of the 3-inch Gun Motor Carriage, M10A1, have been used they turnet with a partial turnet basket has been added. Seats, travering with the turnet, are provided for the gunner, loader, and commander.

To provide for the stowage of 47 rounds of 90 mm ammunition, the

sponson stiffener brackets have been moved forward.

Power is suppled by a ford GAA gasoline engine. It has a maximum speed of 26 m.p.h. on level road and a cruising range of 150 miles.



TALPO.IT

Basis

3½ in. 4 in. 1¾ in.

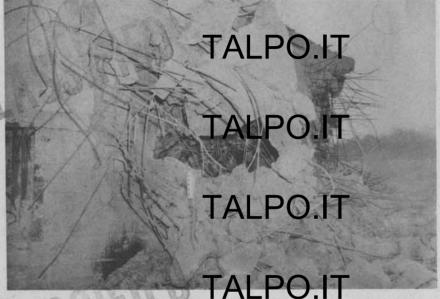
1 in.

Crew	Ammunition: Stowage:
Physical Characteristics: Weight (gross). Length. Width. Height—pedestal A.A. gun folded. Ground clearance. Tread (center to center of tracks). Ground pressure. TALPO IT .62,000 lb. 20 ft., 2 in. 10 ft. 11 in. 12 ft. 13 in. 17 in. 12.7 lb./sq. in.	90 mm (H.E., M71, A.P.C., M82) POIT Cal50. Cal30 Carbine Grenades, Hand (Fragmentation, Mk II, 6; Smoke, M15, 6). Smoke Pots, H.C., M1 Armor: Hull, Front, UppALPOIT .1½ in. 4 in2½ in.
Armament: 90 mm Gun, M3, in Mount, M4A1	Sides, Upper 4 in - 21/2 in 3/4 in Lower 1 in Rear, Upper 3/4 in 1 in Sides, Lower 1 in Sides, Lower 1 in Top, Folward PO
UNULASSI TALPO.IT	TALPO.IT

Turret, Front	
Performance: A P()	
Maximum speed on level	
Maximum grade ability	60%
Trench crossing ability. Vertical obstacle ability.	
Fording depth (slowest forward speed)	
Fuel capacity Cruising range TALPOIT	192 gal
Cruising range.	150 mile
Vision and Fire Control:	
Periscope, M6.	
Telescope, M70P, or M76D or M76F, w/Instrument Light, M33 Telescope Mount, M64 (T92)	
Elevation Quadrant, M9, w/Instrument Light, M30	
Elevation Quadrant, M9, w/lastrument Light M30 Gunner's Quadrant, M1 Panoramic Telescope M12, with Telescope Mout M69 and	
Panoramic Telescope M12, with Telescope Mount M69 and Instrument Light M31.	
maroment Light M31	

TALPO.IT

Communications: Radio SCR-510 or 610 (with Reel Assembly, RL-106 Interphone stations	yVI) or British No. 19
Flag Set, M238	
Fire Protection and Decemanism ion Fire Extinguisher-10 lbCO ₂ (fixed)	
Fire Extinguisher-10 lbCO ₂ (fixed)	
Decontaminating Apparatus M2 11/2 ats	
Engine: Make and Model	Ford, GAA
Type	
Fuel (gas And). DO IT Maximum g Land spO IT Gross hp	80 octane
Gross hp	
Maximum torque1,04	0 lbft. at 2,200 r.p.m.
Transmission: Type	ant mesh, synchronized
Suspension: Type.	. Rubber or steel block
Width	
No. of shoes per vehicle	0 in.
The state of the s	M I Book Book
Tracks Type Tracks Type Width ALPO IT No. of shoes per vehicle	M m
IN THE REAL PROPERTY.	The second
TALPOIT	
IALPU.II	



Gun, 155 mm, M1A1 firing Shell, H.E., 155 mm, M101 with Fuze, CP, M78. Range 2,400 yd. using supercharge. Crater 84 in. deep, 148 cu. ft. of reinforced concrete removed. Wall completely perforated. This is an exceptional round, results consistent with this can not be expected with all rounds fired, as results at this range gave less penetration.

TALPO.IT TALPO.IT **TALPOJT**

Gun, 155 mm, M1A1, firing Shell, H.E., 155 mm, M101, with Fuze, CP, M78. Range using normal charge point blank range. View of damage to German-type reinforced concrete pillbox resulting from two rounds of shell.

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WAR DEPARTMENT
OFFICE OF THE CHIEF OF ORDNANCE
WASHINGTON, D. C.

28 MAY 1945

SDECE: Mobile Artillery vs. Jap Fortifications

TALPO.IT

TO-

The Commandant Command and General Staff School Fort Leavenworth, Kansas

TALPO. Transmitted herewith are copies of the booklet, TALPO.IT

Artillery vs. Jap Fortifications." This booklet describes weapons, vehicles and ammunition especially adapted to the attack of fortifications likely to be encountered in the war with Japan. Types of fortifications covered are concrete pillboxes, log and/or

TALPO IT and caves.

TALPO IT THE mounting of heavy field pieces and powerful tank and IT

anti-tank guns on motor carriages and tanks provides great mobility and protection to the gun crews for close-in fighting.

3. The booklet, "Recoilless Weapons," dated February 1945,

Provided in connection with the same problem.

The booklet, "Recoilless Weapons," dated February 1945,

may The booklet, "Recoilless Weapons," dated February 1945,

provided in connection with the same problem.

4. Additional copies of either may be supplied by Air upon request.

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2 Incls

1. Booklet (4)

2. Receipt

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L. H. CAMPBELL, Jr. Lieutenant General, Chief of Ordnance



