

NEW ORDNANCE MATERIEL



JANUARY 1945

DECLASS AUTHORITY
Authority MND 775004

SECRET

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FILE COPY

SR870

TANKS

TANK, HEAVY, T26E3

TANK, HEAVY, T26E3
(W/Engineer Pontoon)

TANK, HEAVY, T26E4

Shot, Fixed, AP-T, 90-mm, T33

Shot, HVAP-T, 90-mm, T44

Shot, Fixed, HVAP-T, 90-mm, T30E16

Shot, AP-T, 90-mm, T43

TANK, HEAVY, T26E2

TANK, HEAVY, T28

TANK, HEAVY, T29

TANK, HEAVY, T30

TANK, LIGHT, M24

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TANK, HEAVY, T26E3

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CHARACTERISTICS

Physical Characteristics

Crew.....5
 Length.....268 3/4 in.
 Weight (gross).....92,000 lb.
 Width(over sand shields)..136 15/16 in.(reducible
 to 124 in. for shipping)
 Height.....109 3/8 in.
 Turret ring diameter.....69 in.
 Ground clearance.....17 11/16 in.
 Tread (center to center of tracks).....110 in.
 Ground contact length.....148 7/16 in.
 Ground pressure.....12.6 lb./sq. in.

Suspension

Type.....torsion bar

Performance

Sustained speed on level.....25 m.p.h.
 Maximum grade ability.....60 %
 Trench crossing ability.....95 in.
 Vertical obstacle ability.....46 in.
 Fording depth.....48 in.
 Turning radius.....30 ft.
 Fuel capacity.....186 gal.
 Cruising range.....75 miles

Track

Type.....steel
 Width.....24 in.
 Pitch.....6 in.
 Number of shoes per vehicle.....164

SECRET

<u>Armor</u>	Inches, Actual	Inches, Basis
<u>Hull</u>		
front, upper	4	6.9
lower	3	6
sides, forward	3	
engine compartment	2	
rear	2	
bottom	$\frac{1}{2}$ and 1	
top	$\frac{7}{8}$	
<u>Turret</u>		
front	4	
sides and rear	3	
top	1	
Gun Mount Shield		$4\frac{1}{2}$

Armament

90-mm Gun, M3, with a cal. .30, Machine Gun, M1919A4 (flex.) in Combination Gun Mount, T99E2 in 360° power operated turret
 Elevation.....-10° to +20°
 1 Cal. .50, Machine Gun, H.B., M2, (flex.)..On turret for A.A. defense
 1 Cal. .30, Machine Gun, M1919A4, (flex.)....In ball mount in bow
 1 Cal. .30, Tripod Mount, M2
 Provision for: 5 Cal. .45, Submachine Guns, M3
 1 Cal. .30, Carbine, M1, and
 Grenade Launcher, M8

Ammunition, Stowage

90-mm.....70 rd.
 Cal. .50.....440 rd.
 Cal. .30.....5,000 rd.
 Cal. .45.....900 rd.
 Grenades.....12

Vision and Fire Control

Periscope, M6.....6

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Periscope, M10F, in Periscope Mount, T113.....1
(1 Periscope, M4A1, furnished as spare)
Telescope, M71C, with Instrument, Light, M33,
in Telescope, Mount, T90.....1
Azimuth Indicator, M20.....1
Elevation Quadrant, M9.....1
Gunner's Quadrant, M1.....1
Vision blocks (in cupola).....6

Engine

Make and Model.....Ford GAF
Type.....V8, L.C.
Number of cylinders.....8
Maximum governed speed.....2600 r.p.m.
Net horsepower.....500 at 2600 r.p.m.

Transmission

Type.....torqmatic

Communications

Radio.....SCR-508, 528 or AN/VRC 3
Interphone stations.....5

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Limited Procurement Type)

AVAILABLE, 1944 - 33(Ten of these are T26E1)

AVAILABILITY SCHEDULE, 1945

January	- 50	May	- 300
February	- 109	June	- 440
March	- 215	3rd Quarter	- 1,735
April	- 265	4th Quarter	- 2,069

TOTAL SCHEDULE - 5,216

TANK, HEAVY, T26E3 (W/Engineer Pontoon



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Pontoon for Tank, Heavy, T26E3.

CHARACTERISTICS

Pontoons - Two standard 18-ton pontoons and saddles

Outboard Motors - Two 22-horsepower motors are used to provide steering and aid track propulsion

Advantage - It may be assembled into compact kits which can be transported by two 2½-ton trucks

Modification of the tank - The welding of standard fording equipment and four steel plates to each side of the tank to hold and lock the arms which support the pontoons

PRESENT STATUS AND AVAILABILITY SCHEDULE

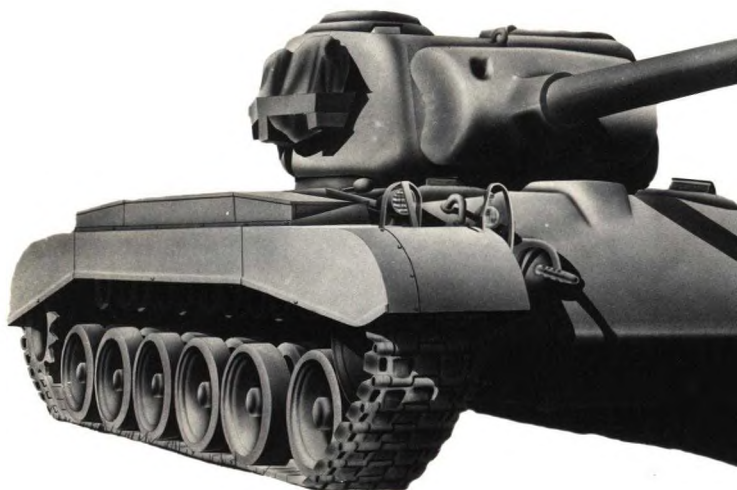
(Development Type)

One Pilot for delivery in February, 1945

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TANK, HEAVY, T26E4



CHARACTERISTICS

Physical Characteristics

Crew.....	5
Length (over fenders).....	243 in.
(over-all gun forward).....	405 3/8 in.
Weight (gross).....	93,000 lb.
Width (over sand shields) 136 15/16 in. (reducible to 124 in. for shipping)	
Height (top of turret).....	109 3/8 in.
Turret ring diameter.....	69 in.
Ground clearance.....	17 11/16 in.
Tread (center to center of tracks).....	110 in.
Ground contact length.....	148 7/16 in.
Ground pressure.....	12.9 lb./sq. in.

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Performance

Sustained speed on level.....25 m.p.h.
Maximum grade ability.....60 %
Trench crossing ability.....95 in.
Vertical obstacle ability.....46 in.
Fording depth.....48 in.
Turning radius.....30 ft.
Fuel capacity.....186 gal.
Cruising range.....75 miles

Track

Type.....steel
Width.....24 in.
Pitch.....6 in.
Number of shoes per vehicle.....164

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<u>Armor</u>	<u>Inches, Actual</u>	<u>Inches, Basis</u>
Hull		
front, upper	4	6.9
lower	3	6
sides, forward	3	
engine compartment	2	
rear	2	
bottom	$\frac{1}{2}$ and 1	
Turret		
front	4	
sides and rear	3	
top	1	
Gun Mount Shield		$4\frac{1}{2}$

Armament

90-mm Gun, T15E2, with a cal. .30, Machine Gun, M1919A4 (flex.) in Combination Gun Mount, in power operated turret
 Elevation.....-10° to +20°
 Traverse.....360°
 1 Cal. .50, Machine Gun, HB, M2, (flex.).....On turret for A.A. defense
 1 Cal. .30 Machine Gun, M1919A4, (flex.).....In ball mount in bow
 1 Cal. .30, Tripod Mount, M2
 Provision for: 5 cal. .45, Submachine Guns, M3
 1 cal. .30, Carbine, M1, and
 Grenade Launcher, M8

Ammunition, Stowage

90-mm.....60 rd. (estimated)
 Cal. .50.....440 rd.
 Cal. .30.....5,000 rd.
 Cal. .45.....900 rd.
 Grenades.....12

Vision and Fire Control

Periscope, M6.....6
 Periscope, M10 type.....1

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Telescope, M71 type.....1
Azimuth, Indicator, M20.....1
Elevation Quadrant, M9.....1
Gunner's Quadrant, M1.....1
Vision blocks (cupola).....6

Engine

Make and Model.....Ford GAF
Type.....V8, L.C.
Number of cylinders.....8
Maximum governed speed.....2600 r.p.m.
Net horsepower.....500 at 2600 r.p.m.

Transmission

Type.....torqmatic

Suspension

Type.....torsion bar

Communications

Radio.....SCR-508, 528 or AN/VRC 3
Interphone stations.....5

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Development Type)

100 under manufacture

Shot, Fixed, HVAP-T, 90-mm, T30E16



CHARACTERISTICS

Shot, Fixed, HVAP-T, 90-mm, T30E16

Length:	M3 Gun	T15 Gun
Shot	13.20 in.	13.20 in.
Complete round	35.90 in.	48.50 in.
Weight:		
Shot	16.70 lb.	16.70 lb.
Complete round (approx.)	36 lb.	(approx.) 44 lb.
Muzzle velocity	3,350 f/s	3,850 f/s

Shot, HVAP-T, 90-mm, T44 (for 90-mm Gun, T15E2)

Length	
Shot.....	13.20 in.
Cartridge case and closing plug.....	39.59 in.
Weight	
Shot.....	16.70 lb.
Cartridge case (loaded).....	27 lb. (approx.)
Muzzle velocity.....	3,850 f/s

Homogeneous armor plate penetration at 30° obliquity

Range	T30E16 Shot	T30E16 Shot	T44
yd.	M3 Gun	T15 Gun	T15E2 Gun
500	7.6 in.	9.6 in.	9.6 in.
1,000	6.8 in.	8.7 in.	8.7 in.
1,500	6.0 in.	7.7 in.	7.7 in.
2,000	5.4 in.	6.8 in.	6.8 in.

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Front glacis plate of PzKpfw V (Panther) Tank
can be penetrated up to 450 yd. with the M3 Gun,
and 1,500 yd. range with the T15 and T15E2 Guns



Shot, HVAP-T, 90-mm, T30E16
Assembled & Disassembled View

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Shot, T30E16, Limited Procurement Type)

The manufacture of 5,000 rd. was initiated by
OCM action 11 January 1945. Probable comple-
tion date, September 1945

(Shot, T44, Development Type)

Test rounds being procured and fired

SECRET

Shot, Fixed, AP-T, 90-mm, T33



CHARACTERISTICS

Shot, Fixed, AP-T, 90-mm, T33

Length:	<u>M3 Gun</u>	<u>T15 Gun</u>
Shot	14.78 in.	14.78 in.
Complete round	37.53 in.	50.08 in.
Weight:		
Shot	24.06 lb.	24.06 lb.
Complete round	43.82 lb.	51 lb. (approx.)
Muzzle velocity	2,800 f/s	3,200 f/s

Shot, AP-T, 90-mm, T43

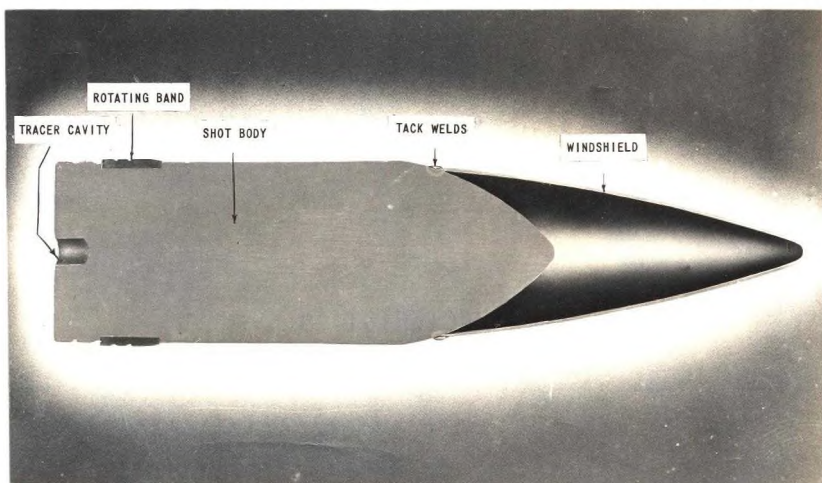
Length:	<u>T15E2 Gun</u>		
Shot	14.78 in.		
Cartridge case and closing plug	36.8 in.		
Weight:			
Shot	24.06 lb.		
Cartridge case (loaded)	27.1 lb.		
Muzzle velocity	3,200 f/s		
Homogeneous armor plate penetrations at 30° obliquity			
Range	T33 Shot	T33 Shot	T43 Shot
<u>yd.</u>	<u>M3 Gun</u>	<u>T15 Gun</u>	<u>T15E2 Gun</u>
500	4.7 in.	5.2	5.2
1,000	4.6 in.	5.0	5.0
1,500	4.5 in.	4.9	4.9
2,000	4.3 in.	4.8	4.8

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Front glacis plate of the PzKpfw V (Panther) Tank can be penetrated up to 1,100 yd. with the M3 Gun and 2,600 yd. range with the T15 and T15E2



Cross Section: Shot, A.P., 90-mm, T33

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Shot, 90-mm, T33, Limited Procurement Type)

The manufacture of 95,000 rd. was initiated by OCM action, 11 January 1945. Probable completion date, July 1945

(Shot, T43, Development Type)

Test rounds being procured and fired

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TANK, HEAVY, T26E2



CHARACTERISTICS

Physical Characteristics

Crew.....	5
Length.....	244 in.
Weight (gross).....	92,000 lb.
Width (over sand shields).....	136 15/16 in.
(reducible to 124 in. for shipping)	
Height.....	109 3/8 in.
Turret ring diameter.....	69 in.
Ground clearance.....	17 11/16 in.
Tread (center to center of tracks).....	110 in.
Ground contact length.....	148 7/16 in.

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Ground pressure.....12.6 lb./sq. in.

Performance

Sustained speed on level.....25 m.p.h.

Maximum grade ability.....60 %

Trench crossing ability.....95 in.

Vertical obstacle ability.....46 in.

Fording depth.....48 in.

Turning radius.....30 ft.

Fuel capacity.....186 gal.

Cruising range.....75 miles

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<u>Armor</u>	Inches, Actual	Inches, Basis
<u>Hull</u>		
Front		
Upper	4	6.9
Lower	3	6
Sides, forward	3	
engine compartment	2	
Rear	2	
Bottom	$\frac{1}{2}$ and 1	
Top	$\frac{7}{8}$	
<u>Turret</u>		
Front	4	
Sides and rear	3	
Top	1	
Gun Mount Shield		$4\frac{1}{2}$

Armament

105-mm Howitzer M4, with a cal. .30, Machine Gun, M1919A4 (flex.) in combination mount in power operated turret
 Elevation.....-10° to +35°
 Traverse.....360°
 1 cal. .50, M.G., HB, M2 (flex.)....On turret for A.A. defense
 1 cal. .30, M.G., M1919A4 (flex.), in bow mount
 1 cal. .30, Tripod Mount M2
 Provision for: 5 cal. .45 Submachine Guns, M3
 1 cal. .30, Carbine, M1, and
 Grenade Launcher, M8

Ammunition, Stowage

105-mm.....72 rd.
 Cal. .50.....440 rd.
 Cal. .30.....5,000 rd.
 Cal. .45.....900 rd.
 Grenades.....12

Vision and Fire Control

Periscope, M6.....6
 Periscope, M10D, in Periscope Mount T130
 (1 Periscope M4A1 furnished as spare).....1

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Telescope, M76G with Instrument Light, M33 in
Telescope Mount, T131.....1
Panoramic Telescope.....1
Elbow Telescope, M62.....1
Elevation Quadrant, M9.....1
Gunner's Quadrant, M1.....1
Vision blocks in cupola.....6

Engine

Make and model.....Ford, GAF
Type.....V8, L.C.
Number of cylinders.....8
Maximum governed speed.....2600 r.p.m.
Net horsepower.....500 at 2600 r.p.m.

Transmission

Type.....torqmatic

Suspension

Type.....torsion bar

Track

Type.....steel
Width.....24 in.
Pitch.....6 in.
Number of shoes per vehicle.....164

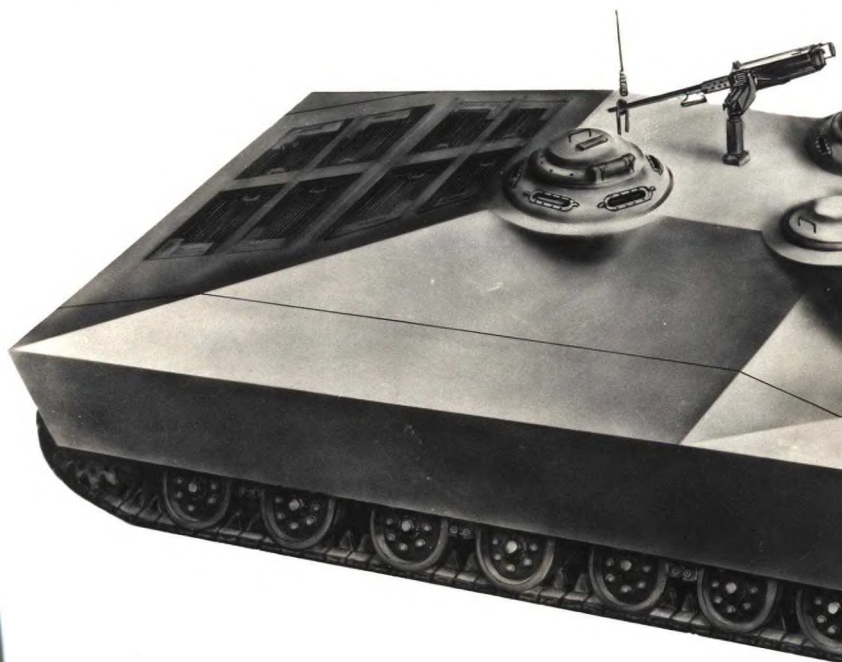
Communications

Radio.....SCR-508, 528 or AN/VRC 3
Interphone stations.....5

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Development Type)
Two Pilots Being Manufactured
AVAILABILITY SCHEDULE, 1945
3rd Quarter - 380
4th Quarter - 900
TOTAL SCHEDULE - 1,280

TANK, HEAVY, T28



CHARACTERISTICS

Physical Characteristics

Crew.....	4
Weight.....	179,660 lb.
Length (over hull).....	295 in.
(over gun).....	437 in.
Width (normal operating).....	178 in.
(emergency operating & shipping)....	124 in.
Height.....	94 in.
Ground clearance.....	19 in.
Ground contact length.....	210 in.

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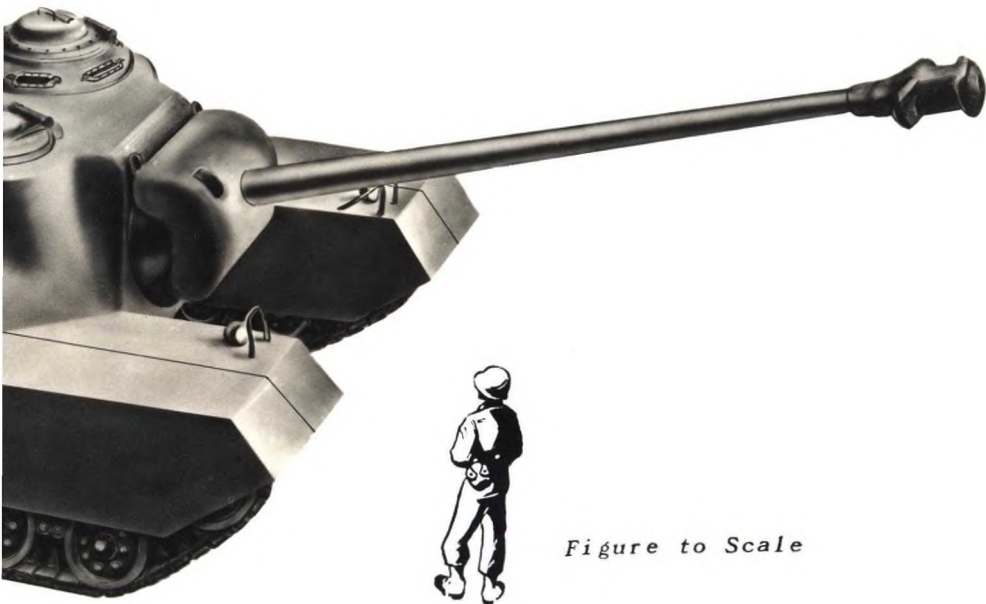


Figure to Scale

Track width.....39 in.(two 19 $\frac{1}{2}$ in. tracks; outer track and its suspension removable)

Unit ground pressure (in normal operating condition)..10.97 lb./sq. in.

Performance

Maximum speed.....12 m.p.h.

Vertical obstacle ability.....24 in.

Fording depth.....47 in.

Grade ability.....60 %

Fuel capacity.....400 gal.

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Armor

Hull	Above Fender	Below Fender
Front	8 in. at 0°	8 in. at 0°
Sides	2½ in. at 57½°	6 in. at 0°
Rear	2 in. at 90°	2 in. at 0°
Top - 1½ in.		
Floor - 1 in.		

Armament

105-mm Gun T5E1 in hull front

Elevation.....-5° to +19½°

Traverse.....10°R and 10°L

1 cal. .50, M.G., HB, M2 (flex.) on top deck

Provision for:

4 cal. .45, Submachine Guns, M3

1 cal. .30, Carbine, M1, with

Grenade Launcher, M8

Ammunition, Stowage

105-mm.....65 rd.

Cal. .50.....660 rd.

Cal. .45.....720 rd.

Grenades.....12

Vision and Sighting Equipment

Periscope, M6.....2

Periscope, M10E3 (Periscope, M8A1 as spare).....1

Telescope, T139 or T140.....1

Panoramic Telescope, T141.....1

Elevation Quadrant, M9.....1

Gunner's Quadrant, M1.....1

Vision Cupolas.....2

Engine

Make and model.....Ford, GAF

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Type.....V8, L.C.
Fuel type.....80 octane
Net horsepower.....470 at 2,800 r.p.m.

Transmission

Type.....torqmatic

Running Gear...

Suspension, type.....Horizontal volute spring
Track, type.....Rubber backed, steel
Number of shoes/track.....102
Pitch.....6 in.
Width.....19½ in.

Communications

Radio.....SCR 508, 528 or AN/VRC3
Interphone stations.....4

PRESENT STATUS AND AVAILABILITY SCHEDULE

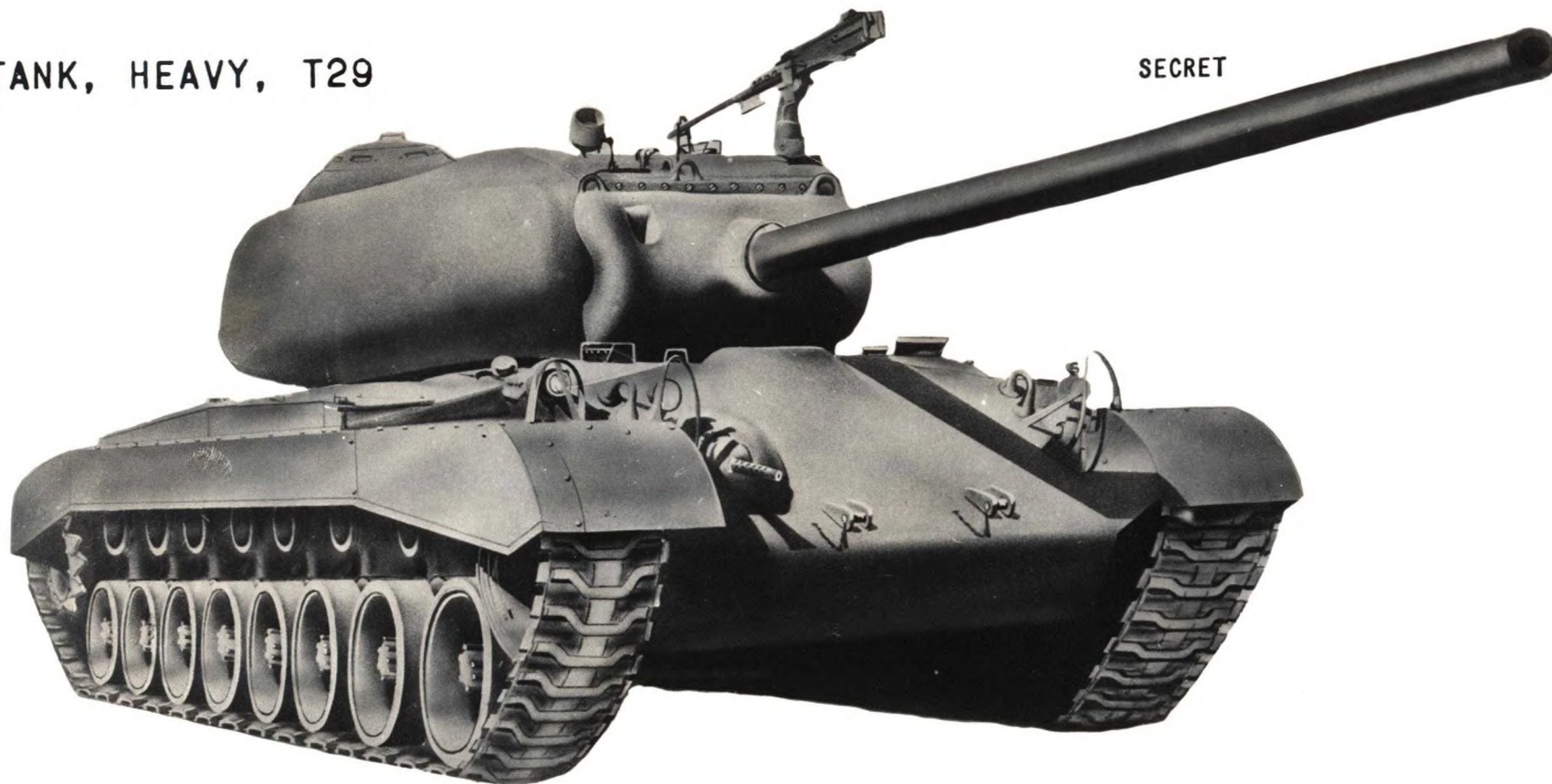
(Development Type)

FIVE PILOTS BEING MANUFACTURED

Delivery in June - July 1945 (estimated)

TANK, HEAVY, T29

SECRET



CHARACTERISTICS

Physical Characteristics

Crew.....6
 Weight (loaded, combat).....128,000 lb.
 Horsepower to weight ratio.....12.7 hp/ton
 Unit ground pressure.....10.3 lb./sq. in.
 Ring turret diameter (inside).....80 in.

Performance

Maximum tractive effort.....1700 lb./ton
 Maximum speed.....25 m.p.h.
 Maximum trench crossing ability 100 in.

Maximum vertical.....46 in.
 Maximum fording depth.....72 in.
 Maximum grade ability.....60 %

Armor

Hull

	Above Fender	Below Fender
Front	4 in. at 54°	2 3/4 in. at 58°
Sides	2 & 3 in. at 0°	2 & 3 in. at 0°
Rear	2 in. at 9°	3/4 in. at 62°
Top(actual)	1 1/2 in.	
Floor(actual)	1/2 and 1 in.	

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Net horsepower.....690 at 2,800 r.p.m.(estimated)
Net max. torque....1460 at 1900 r.p.m. (estimated)
Cooling system.....Liquid
Oil capacity.....48 qt.

Power Train

Final drive gear ratio.....105 to 19
Sprocket pitch diameter.....28.89
Number of teeth.....15
Transmission, type-Torque converter cross drive
Number of speeds, forward.....2
reverse.....1
Steering mechanism, type...Cross Drive (hydraulic)
Steering ratio.....Variable
Brakes, type.....Electirc Eddy Current (external)
operation.....Hand lever, electrical

Running Gear

Suspension, type.....Individual - Torsion Bar
Number of wheels.....16
Wheel size.....26 in. Dual
Track, type.....Fabricated (T80E1)
Number of shoes/track.....102
Pitch.....6 in.
Width.....(28 in. (w/end connectors))

Communications

Radio.....SCR-508, AN/VRC 3
Number of Interphone Outlets.....5

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Development Type)

Two Pilots - 1st Pilot March, 1945

2nd Pilot April, 1945

TANK, HEAVY, T30



CHARACTERISTICS

Physical Characteristics

Crew.....	6
Weight (combat loaded).....	128,000 lb.
Horsepower to weight ratio.....	12.7 h.p./ton
Unit ground pressure.....	10.3 lb./sq. in.
Ring turret diameter (inside).....	80 in.

Performance

Maximum tractive effort.....	1,700 lb./ton
Maximum speed.....	25 m.p.h.

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Maximum trench crossing ability.....100 in.
Maximum vertical wall.....46 in.
Maximum fording depth.....72 in.
Maximum grade ability.....60 %

Armor

Hull	Above Fender	Below Fender
Front	4 in. at 54°	2 3/4 in. at 58°
Sides	2 & 3 in. at 0°	2 & 3 in. at 0°
Rear	2 in. at 9°	3/4 in. at 62°
Top(actual)		
	1 1/2 in.	
Floor(actual)		
	1/2 and 1 in.	

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Turret

Front	7 in. at 0°, mantlet 8 in.
Sides	7 in. to 5 in. at 0°
Rear	4 in. at 0°
Top(actual)	1½ in.

Armament

155-mm Gun in combination with two cal. .50,
Machine Guns, HB, M2, in a power operated turret
Elevation.....-10° to +15°
Traverse.....360°
One cal. .30, M.G., M1919A4 (flex.) in Bow Mount
One cal. .50, M.G., HB, M2 (flex.) in turret hatch
on A.A. Mount
Provision for: Six cal. .45, Submachine Guns, M3

Ammunition, Stowage

155-mm.....	40 rd.
Cal. .50.....	2,420 rd.
Cal. .30.....	2,500 rd.
Cal. .45.....	1,080 rd.
Grenades.....	12

Vision and Sighting Equipment

Periscope, Type M6.....	10
Telescope, Type M70E1.....	1
Elevation Quadrant, M9.....	1
Azimuth Indicator.....	1

Engine

Make and Model.....	Ford GAC
Type.....	V12
Fuel type.....	Gasoline (80 octane)
Net horsepower....	690 at 2,800 r.p.m. (estimated)
Net max. torque.	1,460 at 1,900 r.p.m. (estimated)

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Power Train

Final drive gear ratio.....105 to 19
Sprocket pitch diameter.....28.89
Number of teeth.....15
Transmission, type..Torque converter cross drive
Number of speeds, forward.....2
reverse.....1
Steering mechanism, type..Cross drive (hydraulic)
Steering ratio.....Variable
Brakes, type.....Electric Eddy Current (external)
operation.....Hand lever, electrical

Running Gear

Suspension, type.....Individual -Torsion Bar
Number of wheels.....16
Wheel size.....26 in. Dual
Track, type.....Fabricated (T80E1)
Number of shoes/track.....102
Pitch.....6 in.
Width (w/end connectors) 28 in.

Communications

Radio.....SCR-508, AN/VRC 3
Number of Interphone Outlets.....5

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Development Type)

Two Pilots under manufacture

TANK, LIGHT, M24



SECRET



SECRET

CHARACTERISTICS

Physical Characteristics

Crew.....4
Weight.....39,500 lb.
Length, hull.....195 in.
 over-all with armament.....221 in.
Width (outside of tracks).....112 in.
Height (top of cupola).....97 3/4 in.
 (top of A.A. Mount).....108 in.
Turret ring diameter (inside).....60 in.
Ground clearance.....17 in.
Tread (center to center of tracks).....96 in.
Ground contact length.....112 in.
Ground pressure.....11.0 lb./sq. in.

Performance

Sustained speed on level.....35 m.p.h.
 3% grade.....17 m.p.h.
 10% grade.....11 m.p.h.
Maximum grade ability.....60 %
Trench crossing ability.....78 in.
Vertical obstacle ability.....36 in.
Fording depth.....40 in.
Turning radius.....20 ft.
Fuel capacity.....110 gal.
Cruising range, highway.....175 miles
 cross country.....100 miles

Armor

Hull	Inches, Actual	Inches, Basis
front, upper	1	2 1/2
lower	1	1 1/2

SECRET

sides	1	1
rear, lower	3/4	1 1/4
upper	3/4	3/4
top	1/2	
bottom(first 36 in.)	1/2	
(remainder)	3/8	
Turret		
front and sides	1	1 1/4
rear	1	1
roof	1/2	
Gun Shield		
upper	1 1/2	2
lower	1 1/2	2 1/4

Armament

75-mm Gun, M6, and 1 cal. .30, Machine Gun,
M1919A4 (flexible) in Combination Gun Mount, M64,
in turret

Elevation.....-10° to +15°

Traverse.....360°

1 cal. .50, Machine Gun, HB, M2, (flex.).....On
turret, antiaircraft

1 cal. .30, Machine Gun, M1919A4, (flex.).....In
bow mount

1 cal. .30, Tripod Mount, M2

Provision for: 4 cal. .45, Submachine Guns, M3
or 3 cal. .45, Submachine Guns, M3,
and 1 cal. .30, Carbine, M1, with
Grenade Launcher, M8

Ammunition, Stowage

75-mm.....48 rd.

Cal. .50.....440 rd.

Cal. .30.....3,750 rd.

Cal. .45.....720 rd.

Grenades (Smoke, 2, Fragmentation, 6).....8

TANK, LIGHT, M24

Vision and Fire Control

Periscope, M6.....	3
Telescope, M71G, with Instrument Light, M33 (or Telescope, M70K, with Instrument Light, M39C) in Telescope Mount, M65, with headrest.....	1
Periscope, M10C, in Periscope Mount, M66.....	1
(1 Periscope, M4A1 furnished as spare)	
Azimuth Indicator, M21.....	1
Elevation Quadrant, M9, with Instrument Light, M30.....	1
Gunner's Quadrant, M1.....	1
Vision blocks (in cupola).....	6

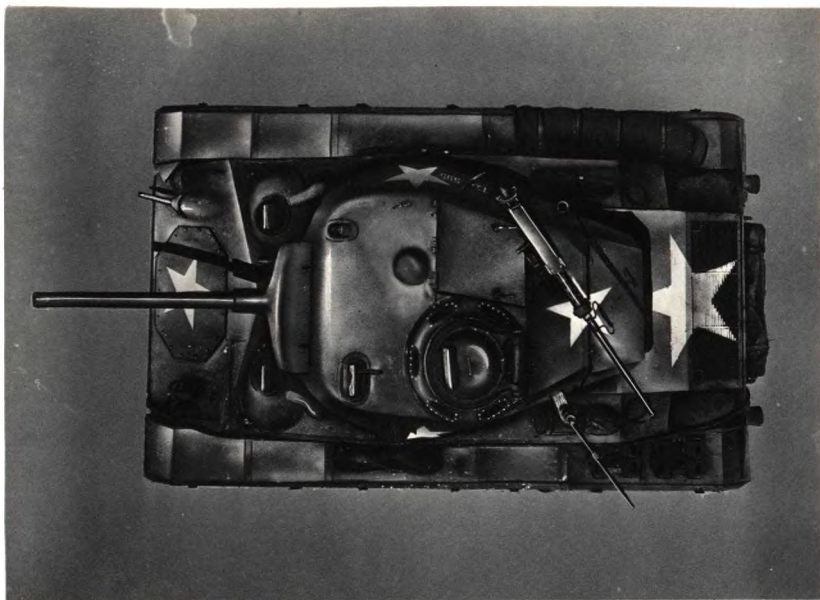
Engine

Make and Model.....	Cadillac, Series 42
Type.....	Dual, V-8
Number of cylinders.....	16
Cycle.....	4
Fuel (gasoline).....	80 octane
Maximum governed speed.....	4,000 r.p.m.
Net horsepower.....	220 at 3,400 r.p.m

Communications

Radio.....	SCR-508, 528 or AN/VRC3
Command Tank.....	SCR -506
Interphone Stations.....	5

SECRET



Tank, Light, M24 - Top View

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Standard Type)

AVAILABLE, 1944 - 1,504

AVAILABILITY SCHEDULE, 1945

January	- 486	May	- 410
February	- 420	June	- 383
March	- 450	3rd Quarter	- 645
April	- 420	4th Quarter	- 455

TOTAL SCHEDULE - 5,173

SECRET

SECRET

GUN MOTOR CARRIAGES

CARRIAGE, MOTOR, 155-MM HOWITZER, T64E1

Carrier, Cargo, T22E1

CARRIAGE, MOTOR, 155-MM GUN, T83

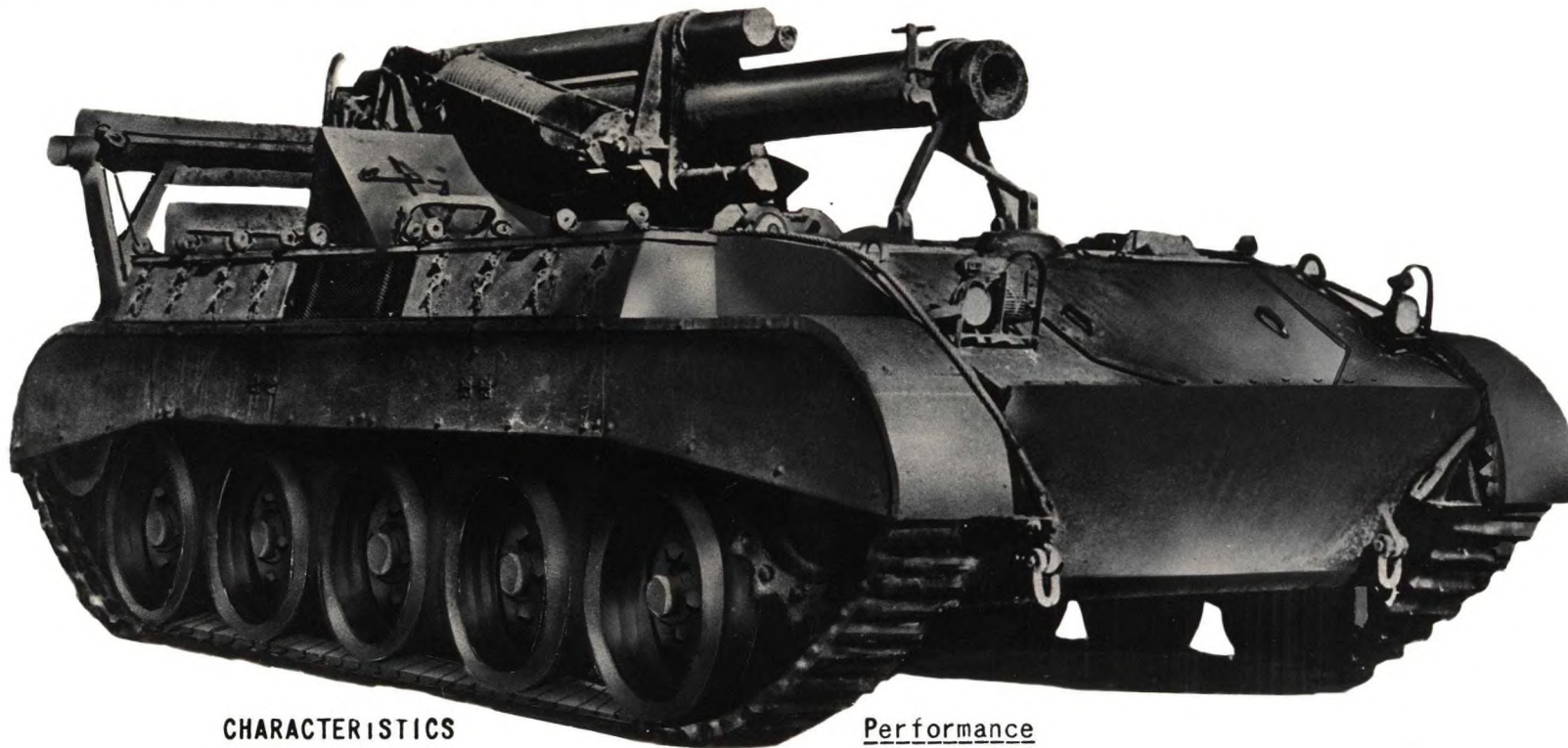
Carrier, Cargo, T30

SECRET

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Authority MDD 715004

CARRIAGE, MOTOR, 155-MM HOWITZER, T64E1

SECRET



CHARACTERISTICS

Physical Characteristics

Crew.....5
 Weight (combat loaded).....41,500 lb.
 (less crew, stowage & fuel)....38,500 lb.
 Length (over-all).....230 in.
 Width (outside of track).....112 in.
 Height (over-all).....94 in.
 Ground clearance (effective).....17 in.
 Track width.....16 in.
 Ground contact length.....124 in.
 Unit ground pressure.....10.5 lb./sq. in.

Performance

Maximum speed.....35 m.p.h.
 Maximum grade ability.....60 %
 Trench crossing ability.....96 in.
 Vertical obstacle ability.....40 in.
 Fording depth.....42 in.
 Fuel capacity.....115 gal.
 Cruising range, highway.....175 miles
 cross country.....100 miles

Armor

	<u>Above Fender</u>	<u>Below Fender</u>
Front	$\frac{1}{2}$ in. at 60°	$\frac{1}{2}$ in. at 45°
Sides	$\frac{1}{2}$ in. at 12°	$\frac{1}{2}$ in. at 12°

SECRET

Rear 3/8 in. at 0° 3/8 in. at 0°
Top - 3/8 in.
Floor - 1/2 & 3/8 in.

Armament

155-mm Howitzer, M1

Traverse.....20 1/2° R, 17° L
Elevation.....-5° to 45°

Provision for:

Gun, Submachine, cal. .45, M3.....1
Carbine, Cal. .30, M1.....1

Ammunition, Stowage

Shell, H.E., 155-mm, M102 or M102B1.....18 rd.
Cal. .30.....480 rd.
Cal. .45 (30 rd. clips).....570 rd.
Grenades, Hand.....12

Vision and Fire Control

Periscope, M6.....2 (2 spares)
Telescope, T116E2 or M69D.....1
Panoramic Telescope, M12 on.....1
Mount, Telescope, T58E2.....1

Engine

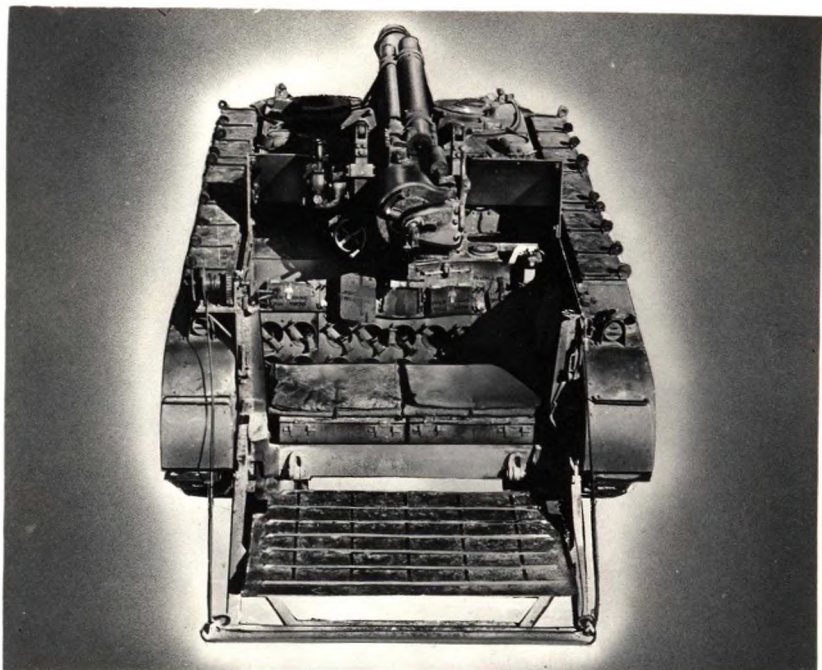
Make and Model.....Cadillac, Series 43
Type.....Dual, V8
Net horsepower.....220 at 3,400 r.p.m.

Suspension

Type.....Individual wheel - torsion bar
Track, type...Steel, rubber bushed, center guide
width.....16 in.
pitch.....5 1/2 in.
number of shoes per vehicle.....176

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Authority NND 775004

SECRET



Carriage, Motor, 155-mm Howitzer, T64E1.

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Limited Procurement Type)

AVAILABLE, 1944 - ONE PILOT

AVAILABILITY SCHEDULE, 1945

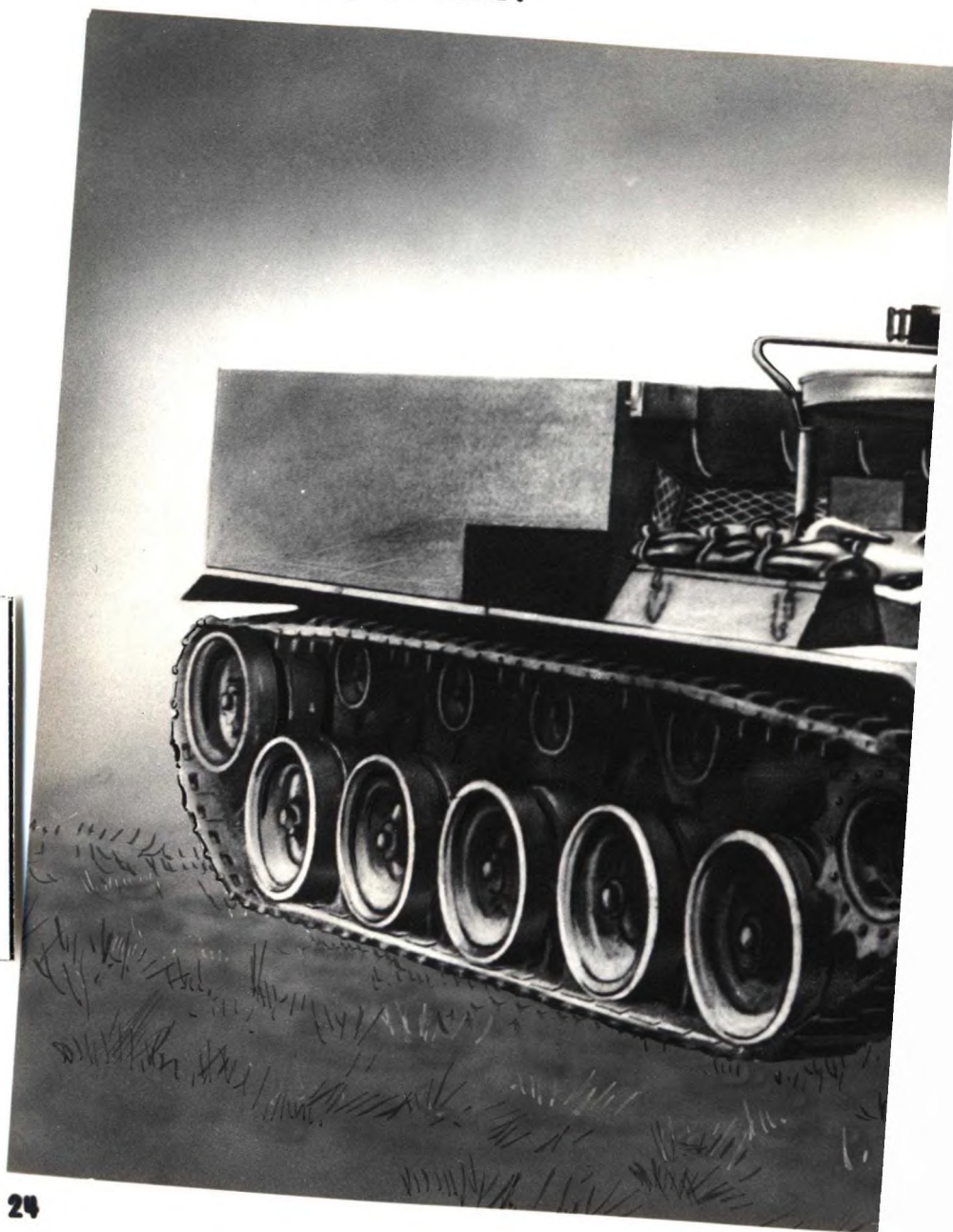
3rd Quarter - 145

4th Quarter - 355

TOTAL SCHEDULE - 500

SECRET

Carrier, Cargo, T22E1



DECLASS AUTHORITY
Authority: WD775004

SECRET



SECRET

CHARACTERISTICS

Physical Characteristics

Crew.....5
Weight (combat loaded).....40,500 lb.
Length (over-all).....215 in.
Width (outside of track).....112 in.
Height (over-all).....94 in.
Ground clearance (effective).....17 in.
Track width.....16 in.
Ground contact length.....124 in.
Unit ground pressure.....10.2 lb./sq. in.

Performance

Maximum speed.....35 m.p.h.
Maximum grade ability.....60 %
Trench crossing ability.....96 in.
Vertical obstacle ability.....40 in.
Fording depth.....42 in.
Fuel capacity.....115 gal.
Cruising range, highway.....175 miles
cross country.....100 miles

Armor

	Above Fender	Below Fender
Front	$\frac{1}{2}$ in. at 60°	$\frac{1}{2}$ in. at 45°
Sides	$\frac{1}{2}$ in. at 12°	$\frac{1}{2}$ in. at 12°
Rear	$\frac{3}{8}$ in. at 0°	$\frac{3}{8}$ in. at 0°
Top	- $\frac{3}{8}$ in.	
Floor	- $\frac{1}{2}$ & $\frac{3}{8}$ in.	

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Authority NND 775004

SECRET

Armament

One cal. .50, Machine Gun, HB, M2, (flex.), on
Ring Mount, M49C or concentric ring mount lo-
cated over assistant driver's hatch

Provisions for stowage of crew weapons

Ammunition, Stowage

Shell, H.E., 155-mm, M102 or M102B1.....75 rd.

Cal. .50.....600 rd.

Grenades, Hand.....12

Vision

Periscope, M6.....2 (2 spares)

Engine

Make and model.....Cadillac, Series 43

Type.....Dual, V8

Net horsepower.....220 at 3,400 r.p.m.

Suspension

Type.....Individual wheel - torsion bar

Track, type....Steel, rubber bushed, center guide
width.....16 in.

pitch.....5½ in.

number of shoes per vehicle.....176

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Limited Procurement Type)

AVAILABILITY SCHEDULE, 1945

3rd Quarter - 56

4th Quarter - 194

TOTAL SCHEDULE - 250

CARRIAGE, MOTOR, 155-MM GUN, T83

SECRET

CHARACTERISTICS

Physical Characteristics

Crew.....	8
Weight (combat loaded).....	72,000 lb.
Length, hull.....	254 in.
over-all with armament.....	320 in.
Width, outside of track.....	124 in.
Height, center line of bore.....	102 in.
Ground clearance.....	19 in.
Track width.....	23 in.
Ground contact length.....	168 in.
Unit ground pressure.....	9.3 lb./sq. in.



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Authority: NND 775004

Performance

Sustained speed.....24 m.p.h.
Grade ability.....60 %
Trench crossing ability.....98 in.
Vertical obstacle ability.....36 in.
Fording ability.....42 in.
Minimum turning circle diameter.....65 ft.
Cruising range.....100 miles

Armor

	Above Fender	Below Fender
Front	$\frac{1}{2}$ in. at 60°	$2\frac{1}{2}$ in. at 45°
Sides	$\frac{1}{2}$ in. at 0°	1 in. at 0°
Rear	$\frac{1}{2}$ in. at 0°	$\frac{1}{2}$ in. at 0°
Gun Mount Shield		
$\frac{1}{2}$ in. at 45°		
Floor - $\frac{1}{2}$ and 1 in.		

Armament

155-mm Gun, M1A1
Traverse: 18° L and 18° R
Elevation: -5° to $+55^{\circ}$
Provision for 7 Carbine, cal. .30
1 Rifle, cal. .30, M1903
Grenade Launcher, M1

Ammunition, Stowage

Shell, H.E., 155-mm, M101 or M101B1.....25 rd.
Cal. .30.....960 rd.
Rifle Grenades.....10
Hand Grenades.....12

Vision and Sighting Equipment

Periscope: Vision: Type, M6 Quantity 2 (2 spares)
Telescope: Panoramic M12 in Mount, Telescope, T122

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Authority AND 775004

SECRET

Telescope M69E1 or T117E6 in Mount, Telescope,
T122 and T123

Light, Instrument, M33

Light, Instrument, M31

Gunner's Quadrant, M1

Engine

Make.....Continental, Model R975C4

Type.....Radial

Fuel, type.....Gasoline (80 octane)

Capacity.....200 gal. (approx.)

Net horsepower.....395 at 2600 r.p.m.

Power Train

Number of speeds.....5 forward, 1 reverse

Suspension

Type.....Horizontal volute spring

Track, type.....Steel, single pin, center guide

width.....23 in.

pitch.....6 in.

number of shoes per vehicle.....176

Communications

Radio SCR 610 or 628

Number of Interphone Outlets - 4

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Limited Procurement Type)

AVAILABLE, 1944 - THREE PILOTS

AVAILABILITY SCHEDULE, 1945

March - 35

June - 51

April - 50

3rd Quarter - 153

May - 51

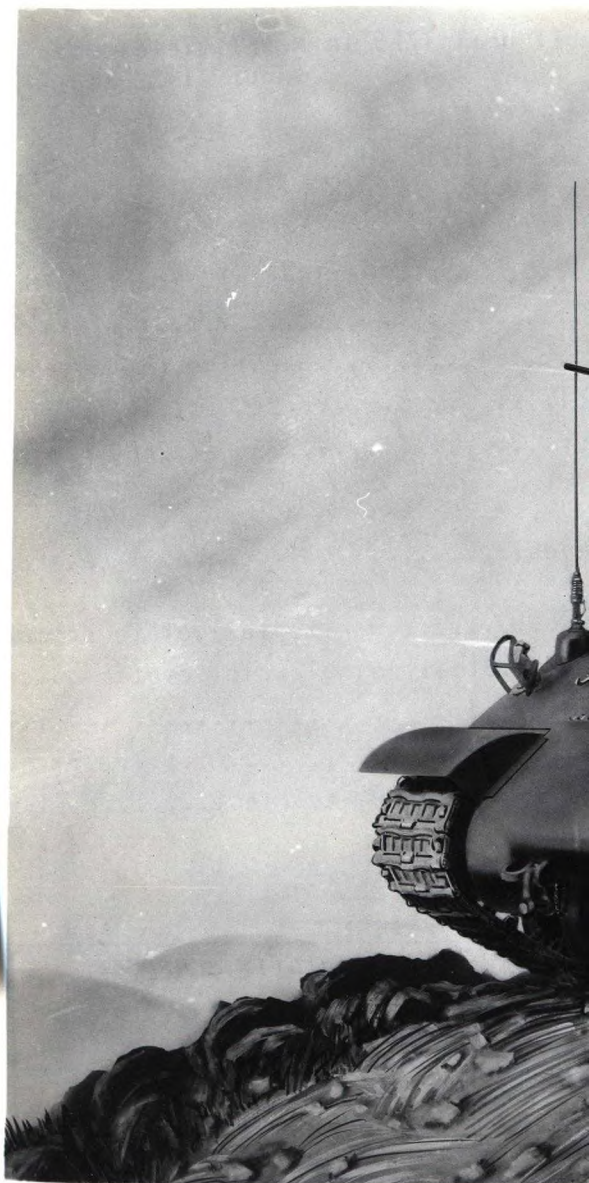
4th Quarter - 260

TOTAL SCHEDULE - 600

SECRET

Carrier, Cargo, T30

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Authority NND 775004



SECRET



SECRET

CHARACTERISTICS

Physical Characteristics

Crew.....4
Weight (combat loaded).....72,000 lb.
Length, hull.....240 in.
Width, outside of track.....124 in.
Ground clearance.....19 in.
Track width.....23 in.
Ground contact length.....168 in.
Unit ground pressure.....9.3 lb./sq. in.

Performance

Sustained speed.....24 m.p.h.
Grade ability.....60%
Trench crossing ability.....98 in.
Vertical obstacle ability.....36 in.
Fording ability.....42 in.
Minimum turning circle diameter.....65 ft.
Cruising range.....100 miles

Armor

	<u>Above Fender</u>	<u>Below Fender</u>
Front	$\frac{1}{2}$ in. at 60°	2 $\frac{1}{2}$ in. at 45°
Sides	$\frac{1}{2}$ in. at 0°	1 in. at 0°
Rear	$\frac{1}{2}$ in. at 0°	$\frac{1}{2}$ in. at 0°
Floor($\frac{1}{2}$ and 1 in.)		

Armament

One cal. .50, Machine Gun, HB, M2, (flex.) on
Ring Mount, M49C or concentric ring mount lo-
cated over assistant driver's hatch

Provisions for stowage of crew weapons

SECRET

Ammunition, Stowage

Shell, H.E., 155-mm, M101 or M101B1.....	100 rd.
Cal. .50.....	600 rd.
Hand Grenades.....	12

Vision Equipment

Standard vision cupolas provided for driver and assistant driver

Periscope: Vision: Type--M6 Quantity - 2
(2 spares)

Engine

Make.....Continental, Model R975C4
Type.....Radial
Fuel, type.....Gasoline (80 octane)
Net horsepower.....395 at 2,600 r.p.m.

Power Train

Number of speeds.....5 forward, 1 reverse

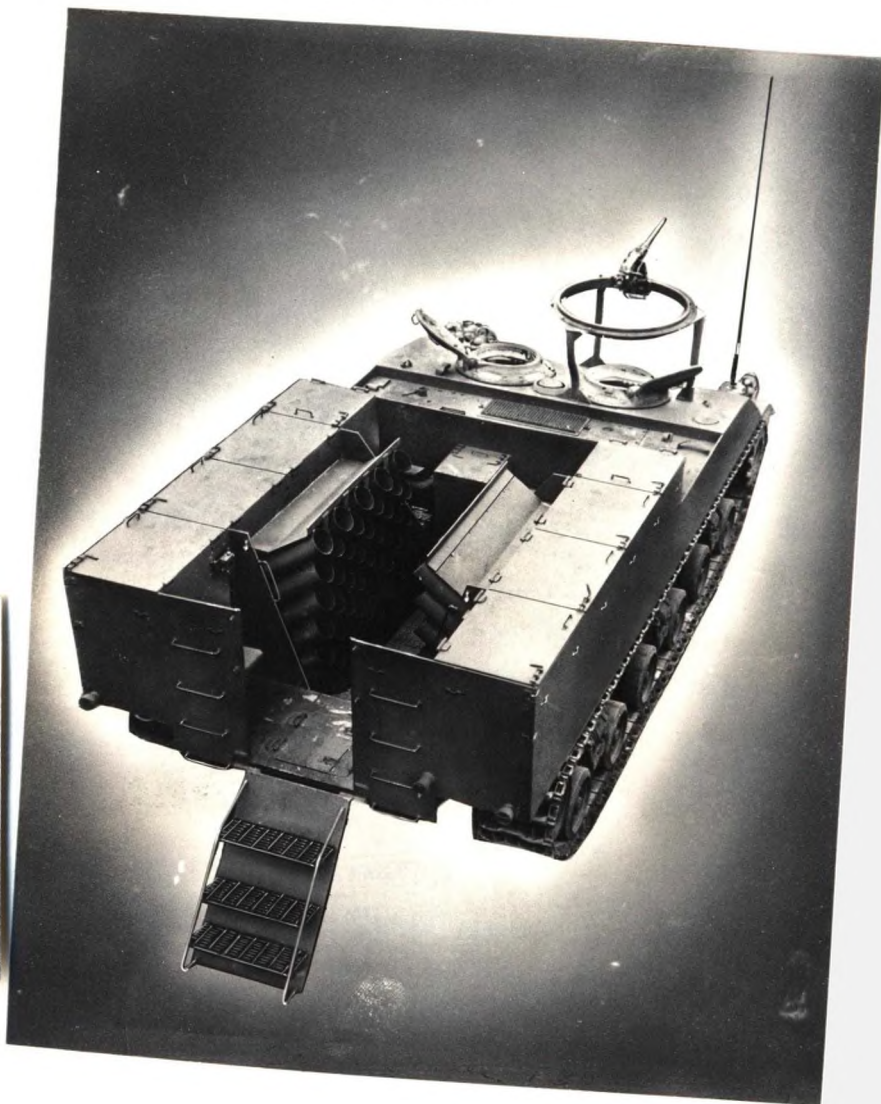
Suspension

```
Type.....Horizontal volute spring
Track, type.....Steel, single pin, center guide
Width.....23 in.
Pitch.....6 in.
Number of shoes per vehicle.....176
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Communication

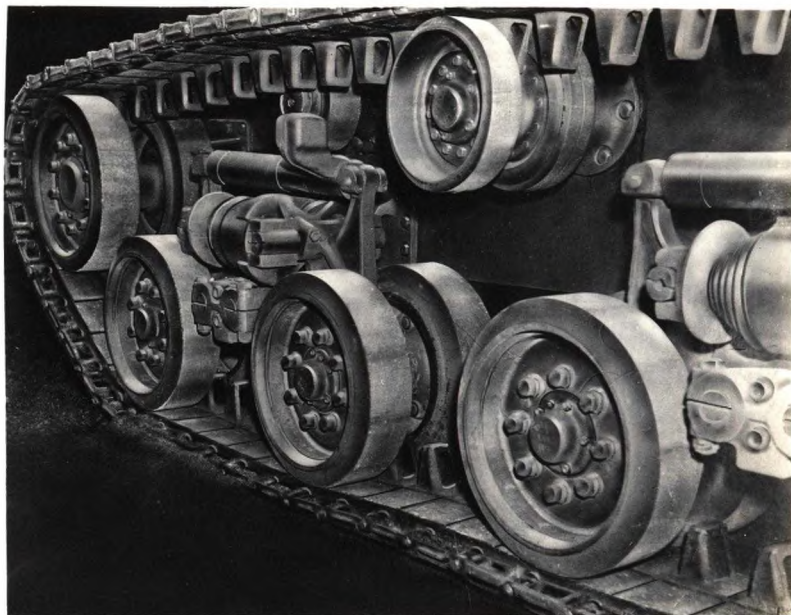
Radio.....SCR 610 or 628
Number of Interphone Outlets.....4

Carrier, Cargo, T30



Carrier, Cargo, T30.

SECRET



New Type Track Suspension

PRESENT STATUS AND AVAILABILITY SCHEDULE

AVAILABLE, 1944 - THREE PILOTS

AVAILABILITY SCHEDULE, 1945

No Requirements

SECRET

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Authority ND 775004

SECRET

ARTILLERY

LITTLE DAVID

Bomb, T1

MORTAR, 155-MM, T25-PHASE I

Shell, H.E., 155-mm, T26E1

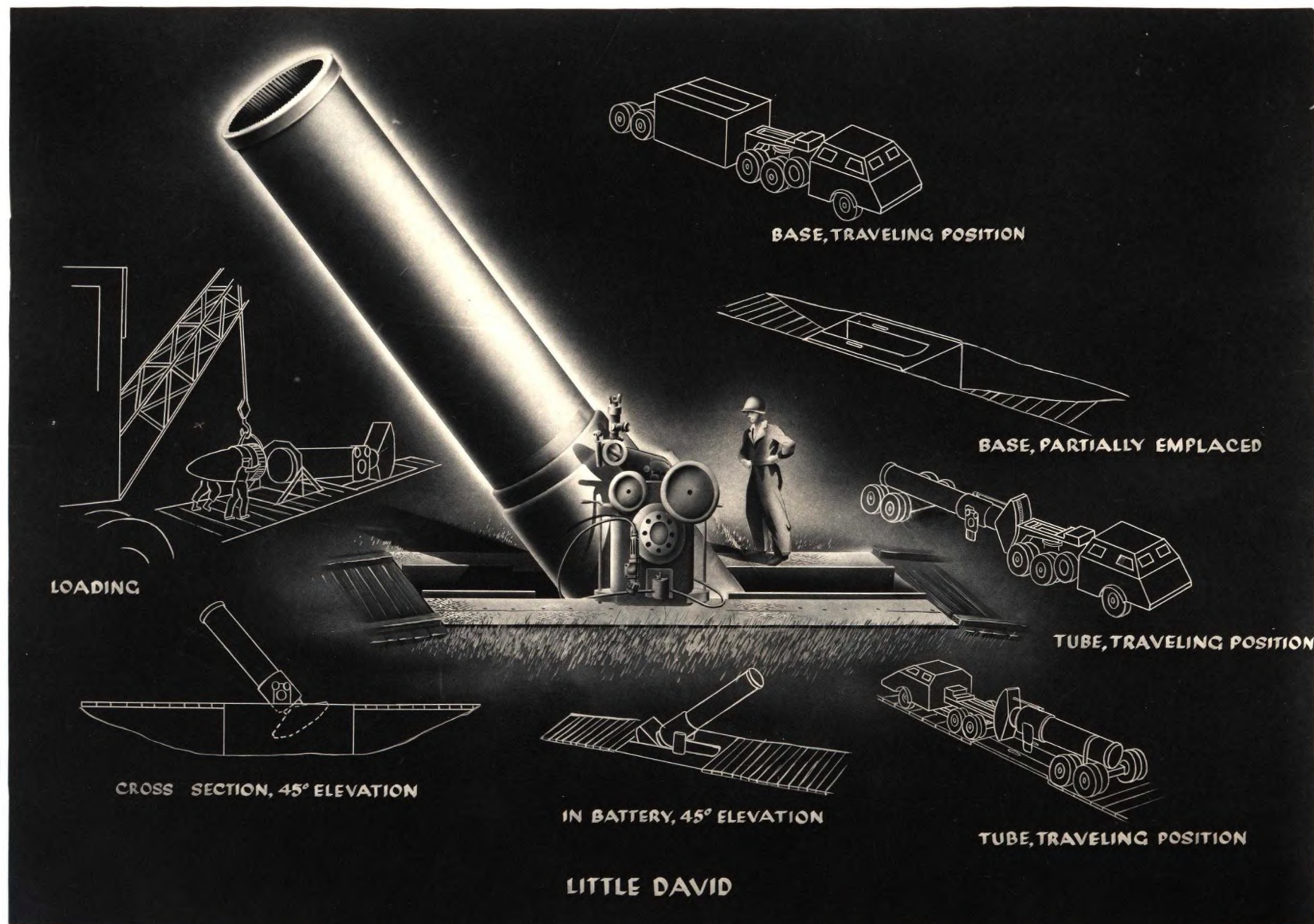
GUN, ANTITANK, 90-MM, T8, ON
CARRIAGE, GUN, 90-MM, T5E2

Tractor, Light, T39

SECRET

LITTLE DAVID

SECRET



SECRET

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CHARACTERISTICS

Weight of complete unit in firing position.....85.5
tons or 171,000 lb.

Base load, complete for travel.....80.8
tons or 161,600 lb.

Tube load, complete for travel.....72.08
tons or 144,175 lb.

Tube

Length.....6.55 calibers

Rifling.....Uniform, R.H., 1 turn in 60 calibers

Recoil.....25.25 in.

Rated maximum pressure, p.s.i.....10,000

<u>Box Assembly Dimensions</u>	<u>Tube Assembly Dimensions</u>
Height.....10 ft.	Width, max. 5 ft. 9 in.
Width.....11 ft.	Length.....27 ft.
Length.....18 ft. 6 in.	Height.....10 ft. 8 in.



Tube Assembly in traveling position

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Bomb, T1

CHARACTERISTICS

Weight

Bomb, T1, as fired.....1.92 tons or 3,850 lb.*

Bursting charge, T1.....75 ton or 1,550 lb.*

Propelling charge.....210 lb.*

Fuzes.....Inertia type, base detonating, non-delay
vs. long delay

Ignition.....Two Mk. XV, Mod. I, electric primers
and approx. 8 lb. black powder

Muzzle velocity.....1,250 f/s

Approximate range

Bomb, T1, at 45° elevation.....10,000 yd.

*Figures are approximate

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Development Type)

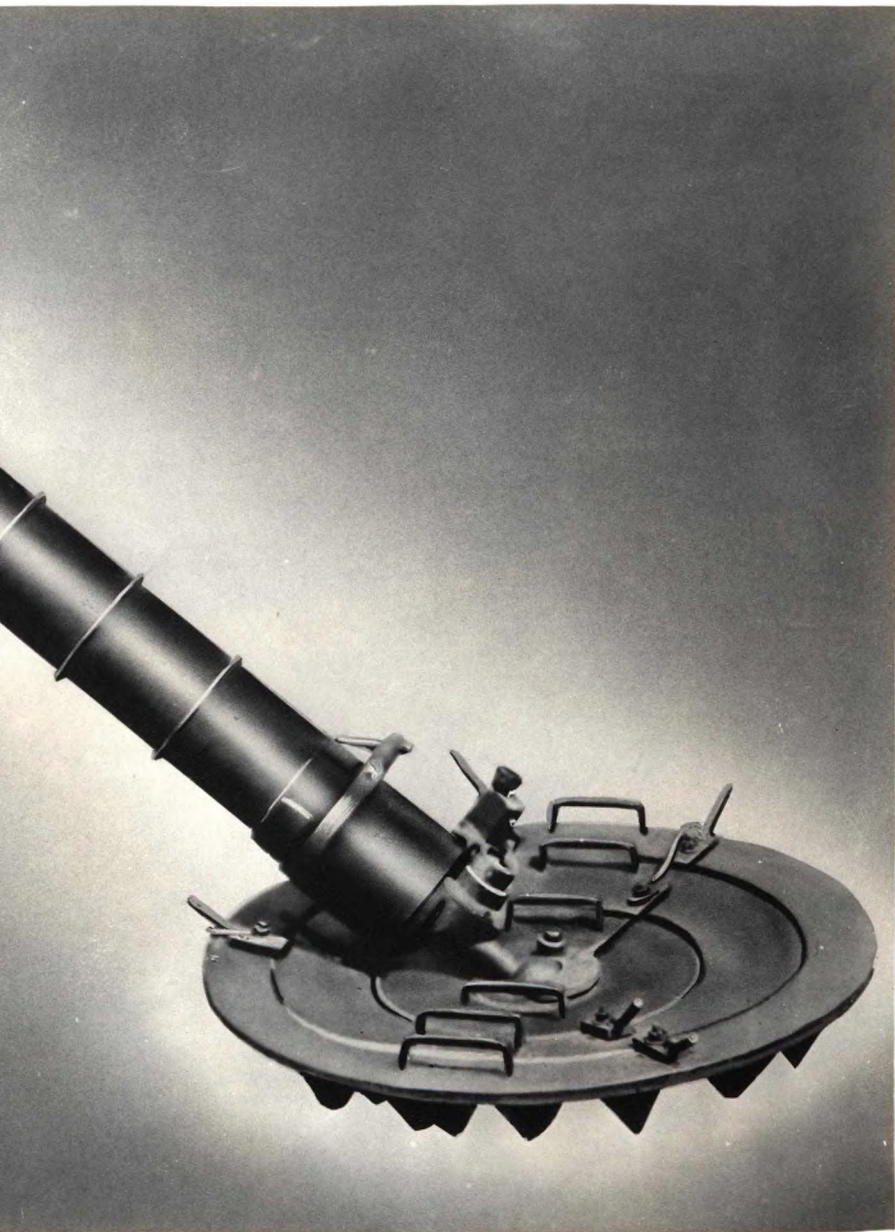
AVAILABLE, 1944 - FOUR PILOTS

MORTAR, 155-MM, T25-PHASE I



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Authority WD775004

SECRET



SECRET

CHARACTERISTICS

Mortar

Weight of 155-mm Mortar, T25.....	171 lb.
Length of bore.....	10.67 cal.
Length (muzzle to rear end of base plate).....	75.775 in.
Weight of tube.....	100 3/4 lb.
Weight of base cap.....	63 3/4 lb.
Weight of firing mechanism, T17.....	6 1/2 lb.

Mount

Elevation.....	45° to 80°
Maximum traverse (45° elevation).....	137 mils or 68.5 mils left, 68.5 right
Maximum traverse (80° elevation).....	165 mils or 82.5 mils left, 82.5 right
Shock absorber and collar.....	96 lb.
Traversing mechanism.....	45 lb.
Bipod (and elevating screw).....	71 lb.
Sight, M4.....	1 1/2 lb.

Base Plate

Center ring.....	54 lb.
Intermediate ring.....	71 lb.
Outer ring.....	68 lb.
Over-all diameter.....	37 in.
Flotation area.....	1,075 sq. in.



Shell, H.E., 155-mm, T26E1

SECRET

CHARACTERISTICS

Caliber.....155-mm
Model of mortar.....T25
Bursting charge and weight..Cast TNT, 18.38 lb.
(approx.)
Fuze.....Fuze, Rocket, P.D., M4A1 or M4A2
Primer.....Mk 11A4
Cartridge (Ignition).....T2
Propelling charge and weight..M2 smokeless pwr. of
.015 SP. gr. in bag increments of approx.
1550 gr. each zone
Complete round weight.....63.0 lb.
Muzzle velocity (Charge 3).....515 f/s
Maximum range (Charge 3).....2,505 yd.
Rated maximum pressure, p.s.i.....3,000

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Limited Procurement Type)

AVAILABLE, 1944 - 109

AVAILABILITY SCHEDULE, 1945

January - 6

February - 10

March - 50

April - 49

TOTAL SCHEDULE = 224

SECRET

GUN. ANTITANK, 90-MM, T8, ON CARRIAGE, GUN, 90-MM, T5E2



SECRET

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Authority AWD775004

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SECRET



Gun and carriage in traveling position

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Limited Procurement Type)

AVAILABLE, 1944 - FIVE PILOTS

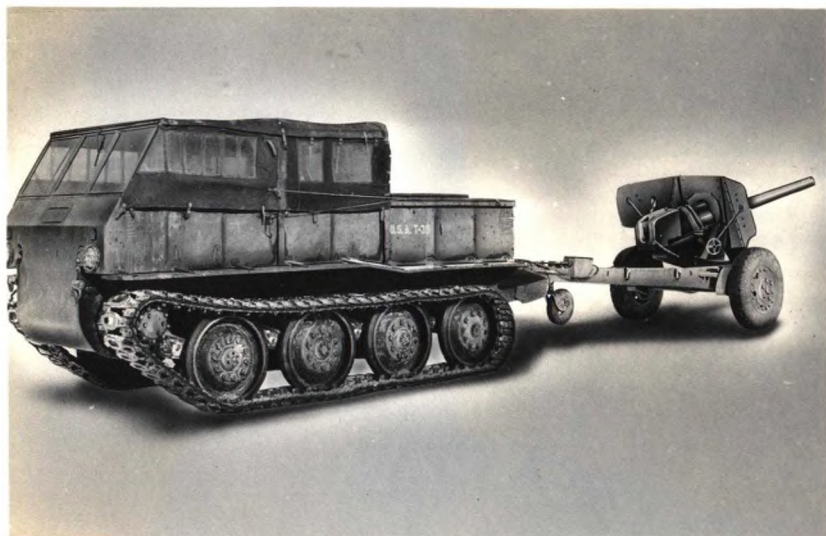
AVAILABILITY SCHEDULE, 1945

January - 15	May - 100
February - 60	June - 100
March - 100	3rd Quarter - 167
April - 100	

TOTAL SCHEDULE - 642

SECRET

Tractor, Light, T39



CHARACTERISTICS

Physical Characteristics

Crew.....	9
Weight (gross).....	18,000 lb.
Length.....	178 in.
Width.....	93 in.
Height.....	88 in.
Ground clearance.....	20 in.
Tread (center to center of tracks).....	74 in.
Track width.....	19 in.
Ground contact length.....	105 in.
Ground pressure.....	4.5 lb./sq. in.

SECRET

Performance

Sustained speed on level.....40 m.p.h.
Maximum grade ability.....60 %
Trench crossing ability.....35 in.
Vertical obstacle ability.....20 in.
Fording depth.....48 in.
Fuel capacity.....60 gal.
Cruising range.....125 miles

Armament

One cal. .50 Machine Gun, HB, M2, Flexible, on
AA Mount

Ammunition, Stowage

90-mm.....30 rd.(approx.)
.50 cal.....800 rd.

Engine

Make.....Cadillac
Type.....V8, L.C.
Maximum governed speed.....3,200 r.p.m.
Net horsepower.....110 at 3,200 r.p.m.

Transmission

Type.....Hydramatic

Suspension

Type.....Torsion Bar

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Development Type)

*Six Pilots authorized with deliveries in
January and February, 1945*

SECRET

SECRET

SMALL ARMS

FUZE, HAND GRENADE, T2E1

LAUNCHER, ROCKET, 2.36-INCH, M9E2

CARBINE, CAL. .30, M2

GUN, MACHINE, CALIBER .50, T25E3, AIRCRAFT, BASIC

RIFLE, 75-MM, T21

Shell, H.E., 75-mm, T38

Shell, H.E.A.T., 75-mm, T39

Shell, Smoke (WP), 75-mm, T40

RIFLE, 57-MM, T15E13

Shell, H.E., 57-mm, T22

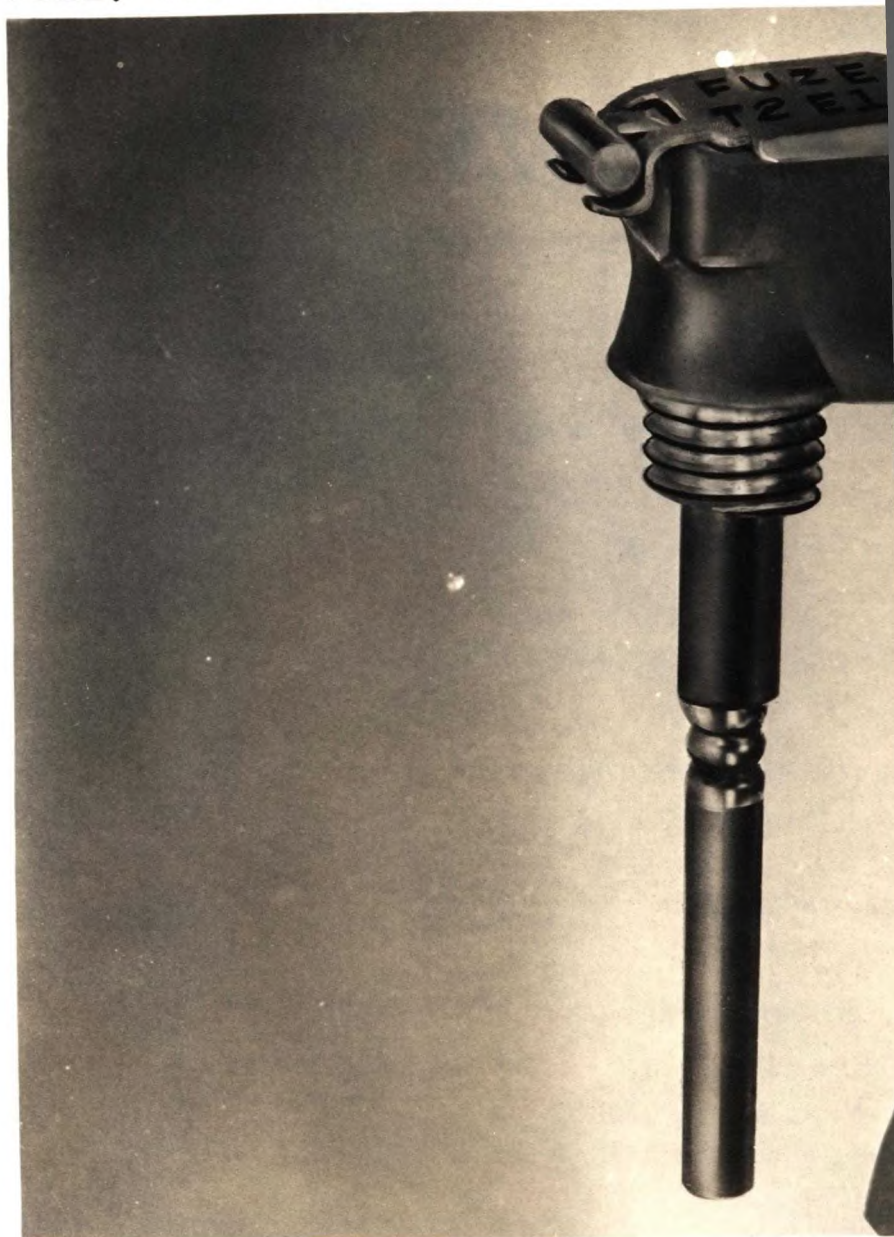
Shell, H.E.A.T., 57-mm, T20E2

Shell, Smoke, (WP), 57-mm, T23

SECRET

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Authority MDD 75004

FUZE, HAND GRENADE, T2E1



DECLASSIFIED
Authority NND 775004

SECRET



SECRET

CHARACTERISTICS

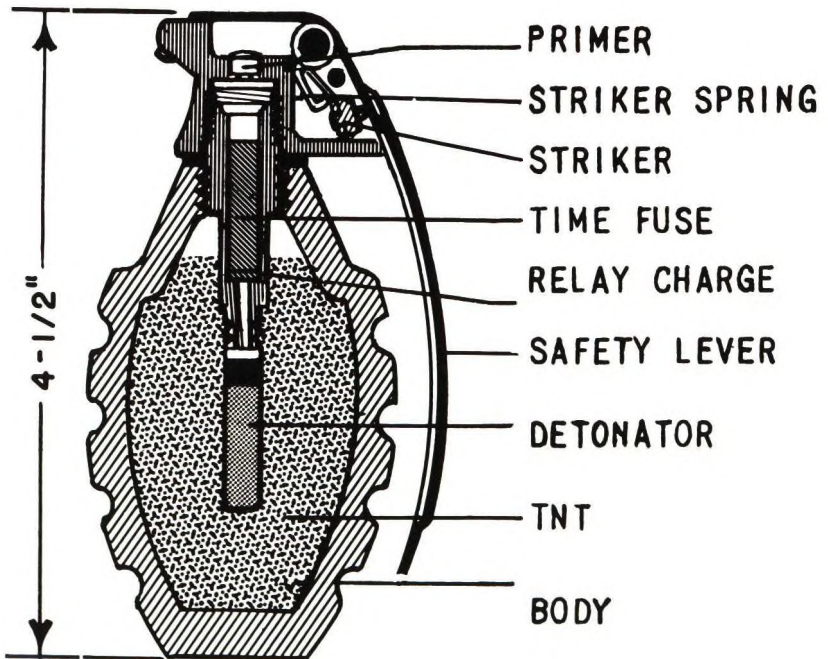
Type.....Detonating (noiseless, smokeless and sparkless while burning)

Delay.....1.4 to 5 seconds

Safety.....Added safety through new lever design and easier pull of safety pin

Identification.....New lever design and T lug on body, marking on lever

Note: The T2E1 Fuze is used for any purpose for which present M6A3 Fuzes are employed. It lends itself well for use in booby traps or in detonating TNT charges.



*Fuze, Hand Grenade, T2E1, assembled with
Grenade, Hand, Fragmentation, Mk II, (TNT)*

Authority ND 775004
DECLASSIFIED

SECRET



PRESENT STATUS AND AVAILABILITY SCHEDULE

(Limited Procurement Type)

AVAILABILITY SCHEDULE, 1945

January - 500,000

February - 1,000,000

March - 1,500,000

April - 1,500,000

May - 1,000,000

TOTAL SCHEDULE - 6,000,000

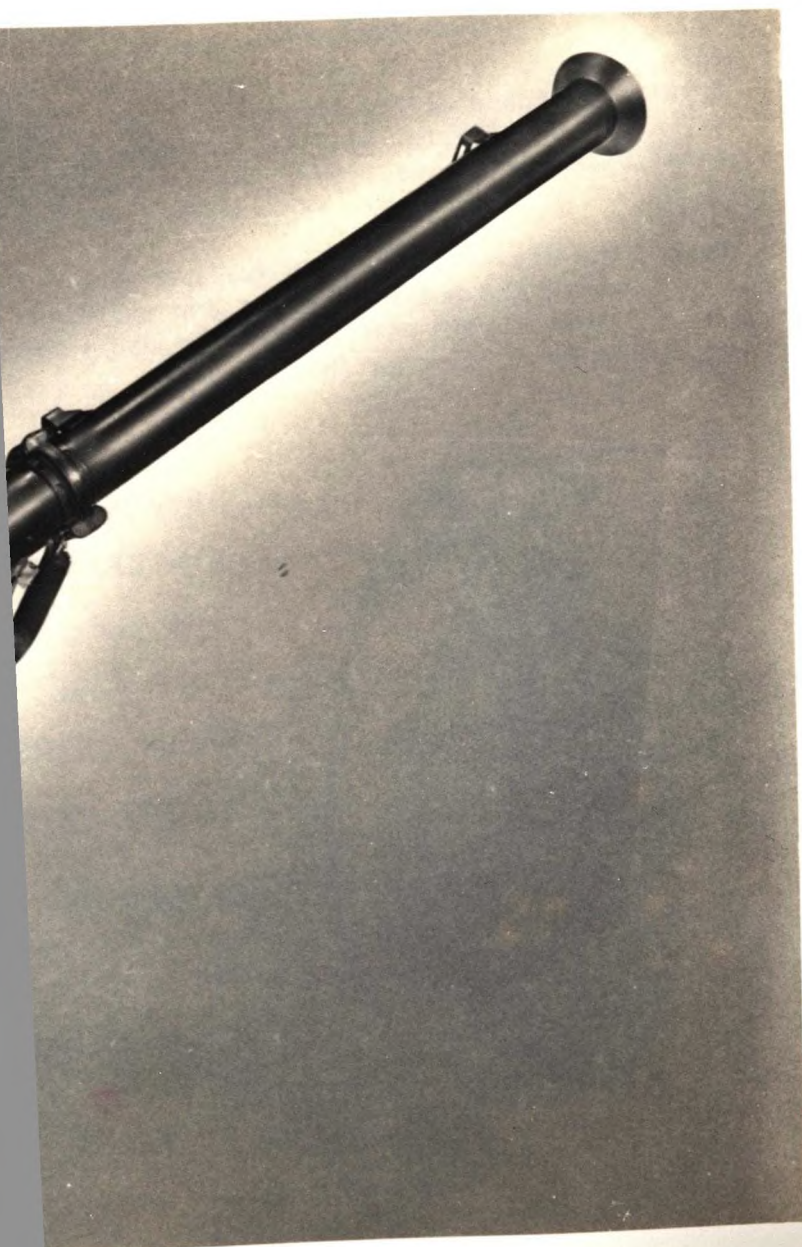
SECRET

LAUNCHER, ROCKET, 2.36-INCH, M9E2



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SECRET



SECRET

CHARACTERISTICS

Weight.....10.5 lb.
(Aluminum - 6 lb., other materials - 4.5 lb.)
Length, over-all.....61 in.
Weight of projectile.....3.39 lb.
Range.....600 yd.
Muzzle velocity.....265 f/s
Type of fire.....Direct
Rate of fire.....10 r.p.m. (approximate)
Ammunition.....H.E.A.T. & WP



SECRET



*Bazooka team firing the 2.36 inch Rocket
at a tank from a concealed position*

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Limited Procurement Type)

AVAILABLE, 1944 - FIVE PILOTS

AVAILABILITY SCHEDULE, 1945

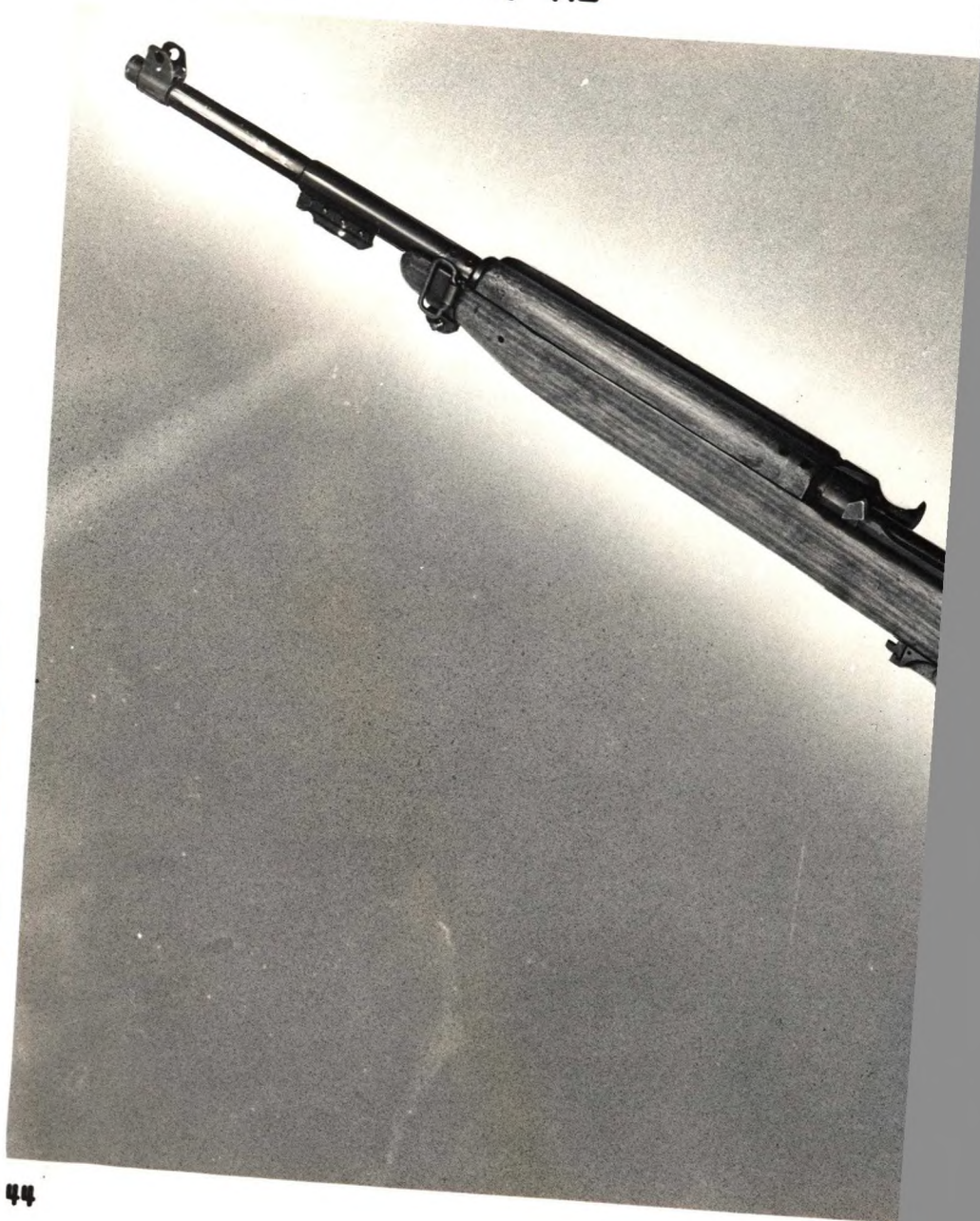
January - 200

February - 300

TOTAL SCHEDULE - 500

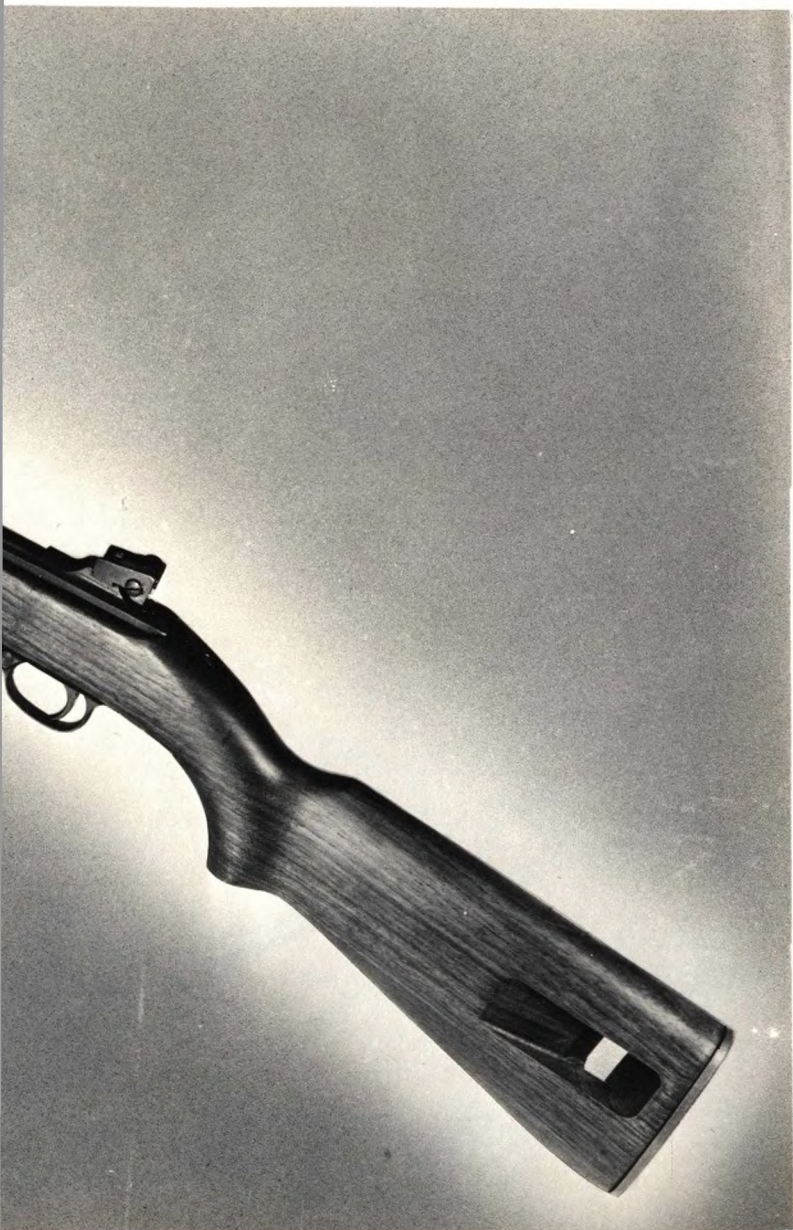
SECRET

CARBINE, CAL. .30, M2



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Authority ND 775004

SECRET



SECRET

CHARACTERISTICS

Operation. Semi-automatic or full automatic, at will

Weight

with magazine (unloaded).....	5.20 lb.
with magazine (loaded) and sling.....	5.80 lb.
magazine.....	.17 lb.
magazine (loaded) with 15 cartridges.....	.59 lb.

Magazine capacity.....15 rd.

Length, over-all.....36 in.

Length of barrel.....18 in.

Rifling, R.H., one turn in.....20 in.

Grooves.....4

Sight Radius.....21.46 in.

Trigger pull.....4 - 6 lb.

MODIFIED AND REDESIGNED COMPONENTS

Operating Slide: cam cut

Trigger housing: selector spring groove and sear trip lever clearance cuts

Stock: clearance cuts for selector and sear trip lever

Sear: built up shoulder

Hammer: sear trip clearance cut

Magazine Catch: projection for additional magazine support

Crank Pin: straddle mill cut for selector and crank for sear trip lever

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Authority ND 775004

SECRET

ADDITIONAL COMPONENTS

Sear trip lever
Selector
Selector spring
Sear trip
Sear trip spring and plunger

All other components other than those listed above are interchangeable with the M1 Carbine.

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Standard Type)

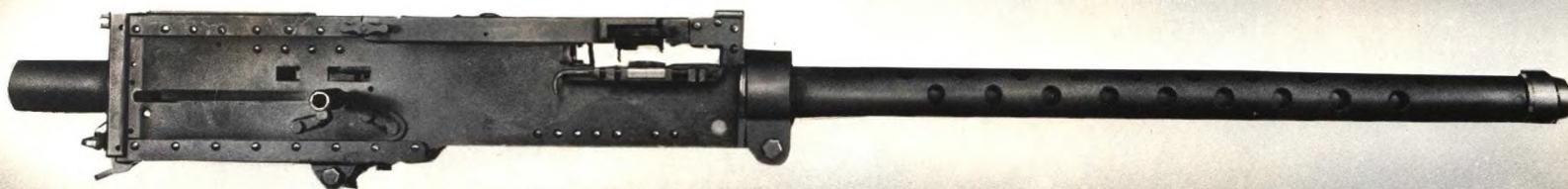
Production is being changed over from the M1A1 to the M2 type as rapidly as practical without loss of total production. A tentative schedule of the M2 production is as follows:

AVAILABILITY SCHEDULE, 1945

January	- 20,000	April	- 86,000
February	- 40,000	May	- 95,000
March	- 62,000		

SECRET

GUN, MACHINE, CALIBER .50, T25E3, AIRCRAFT, BASIC



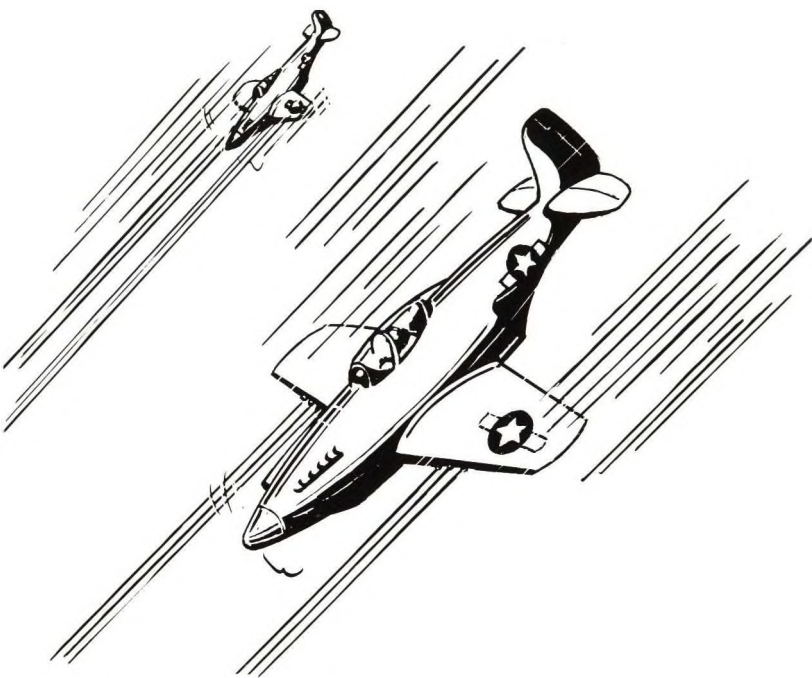
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CHARACTERISTICS

Rate of fire (rigid mount).....1,200 r.p.m.
Length, over-all.....58.25 in.
Weight.....62 lb.
Belt pull capacity.....35 lb., minimum



SECRET



PRESENT STATUS AND AVAILABILITY SCHEDULE

(Limited Procurement Type)

AVAILABLE, 1944 - TWELVE PILOTS

AVAILABILITY SCHEDULE, 1945

April - 1,000

May - 1,000

TOTAL SCHEDULE - 2,000

SECRET

RIFLE, 75-MM, T21

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Cartridge, H.E., 75-mm, T38

AMMUNITION

Shell	H.E. 75-mm, T38	H.E.A.T., 75-mm, T39	Smoke (WP), 75-mm T40
Weight			
*shell & fuze	14.4 lb.	13.1 lb.	15.1 lb.
Fuze type	P.D.	B.D.	P.D.
Primer	M28A2	M28A2	M28A2
Cart. Case	Steel, T7	Steel, T7	Steel, T7
Complete			
round weight	21.85 lb.	20.44 lb.	22.61 lb.
Penetration: 4 to 4.5 in. of homogeneous armor plate at all ranges and at all obliquities from 0° to 60° (H.E.A.T.)			

*All projectiles have pre-engraved rotating bands

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Limited Procurement Type)

AVAILABLE, 1944 - FIVE PILOTS

AVAILABILITY SCHEDULE, 1945

February	- 80	May	- 250
March	- 100	June	- 250
April	- 250	3rd Quarter	- 70
		4th Quarter	-

TOTAL SCHEDULE - 1,000

SECRET

CHARACTERISTICS

Weight (gun complete for mounting on tripod. 40.25 lb.
Length, over-all.....60 in.
Recoil mechanism.....None, recoilless
Muzzle velocity.....1,200 f/s
Maximum range.....4,400 yd.
with Shell, HE, 57-mm, T22
Type of breechblock.....interrupted lug
Firing mechanism.....Spring loaded hammer, float-
ing firing pin, trigger operated sear
Rifling....1 turn in 30 calibers-uniform, right hand
Mount....Bipod, T3E1 forms rest for shoulder firing
or bipod for prone firing used in conjunc-
tion with extendable front Handle, T3E1
Alternate Mount....Mount, Tripod, Cal. .30, M1917A1
Iron Sights.....Sight, Front, T91 and Mount, Sight,
T120E1, provide iron sights when
telescope is not used
Telescopic Sight....Direct Fire Telescope, T130E2
On Mount, Elevation.....+65°
Tripod, cal. Depression.....-27°
.30, M1917A1 Traverse.....360°
Height - in firing position (on Mount, Tripod, cal.
.30, M1917A1)..0° elevation 34 1/4 in. to top of
breechblock handle
Width-in firing position..12 in.(gun and sight
mounting bracket only)

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Bipod folded for firing from shoulder

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Limited Procurement Type)

AVAILABLE, 1944 - FIVE PILOTS

AVAILABILITY SCHEDULE, 1945

June - 300

3rd Quarter - 1,500

TOTAL SCHEDULE - 2,000

SECRET

Rifle, 57-mm, T15E13



Firing in prone position

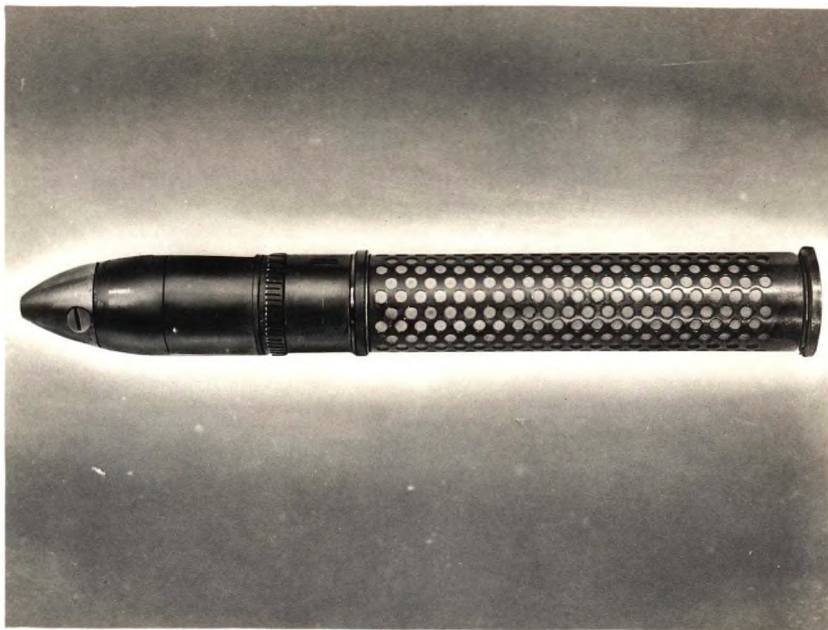
RIFLE ACCESSORIES

1. Cover, T27E2
2. Cover, T38 (Muzzle and Breech)
3. Bag, Canvas, Rocket, M6 (for transporting ammunition)
4. Packboard, Plywood & straps w/buckles, quick release & attachments, cargo
5. Mount, Tripod, cal. .30, M1917A1

AMMUNITION

<u>Shell</u> <u>Type</u>	<u>Shell* & Fuze</u> <u>Weight</u>	<u>Fuze</u> <u>Type</u>
H.E., 57-mm, T22	2.75 lb.	P.D.
H.E.A.T., 57-mm, T20E2	2.75 lb.	P.I.
Smoke (WP), 57-mm, T23	2.75 lb.	P.D.

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Cartridge H.E., 57-mm, T22

Penetration: This shell has penetrated up to 3 in. of homogeneous armor plate at 20° obliquity (H.E.A.T.)

*All projectiles have pre-engraved rotating bands

<u>Primer</u>	<u>Cartridge Case</u>	<u>Complete Rd. Weight</u>	
		<u>w/o</u>	<u>w/container</u>
Perc., T37	Steel, TI	5.30	7.12 lb.
Perc., T37	Steel, TI	5.30	7.12 lb.
Perc., T37	Steel, TI	5.30	7.12 lb.

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ROCKETS

LAUNCHER, ROCKET, MULTIPLE, 4.5-INCH, T66

ROCKET, H.E., 4.5-INCH, T38E3

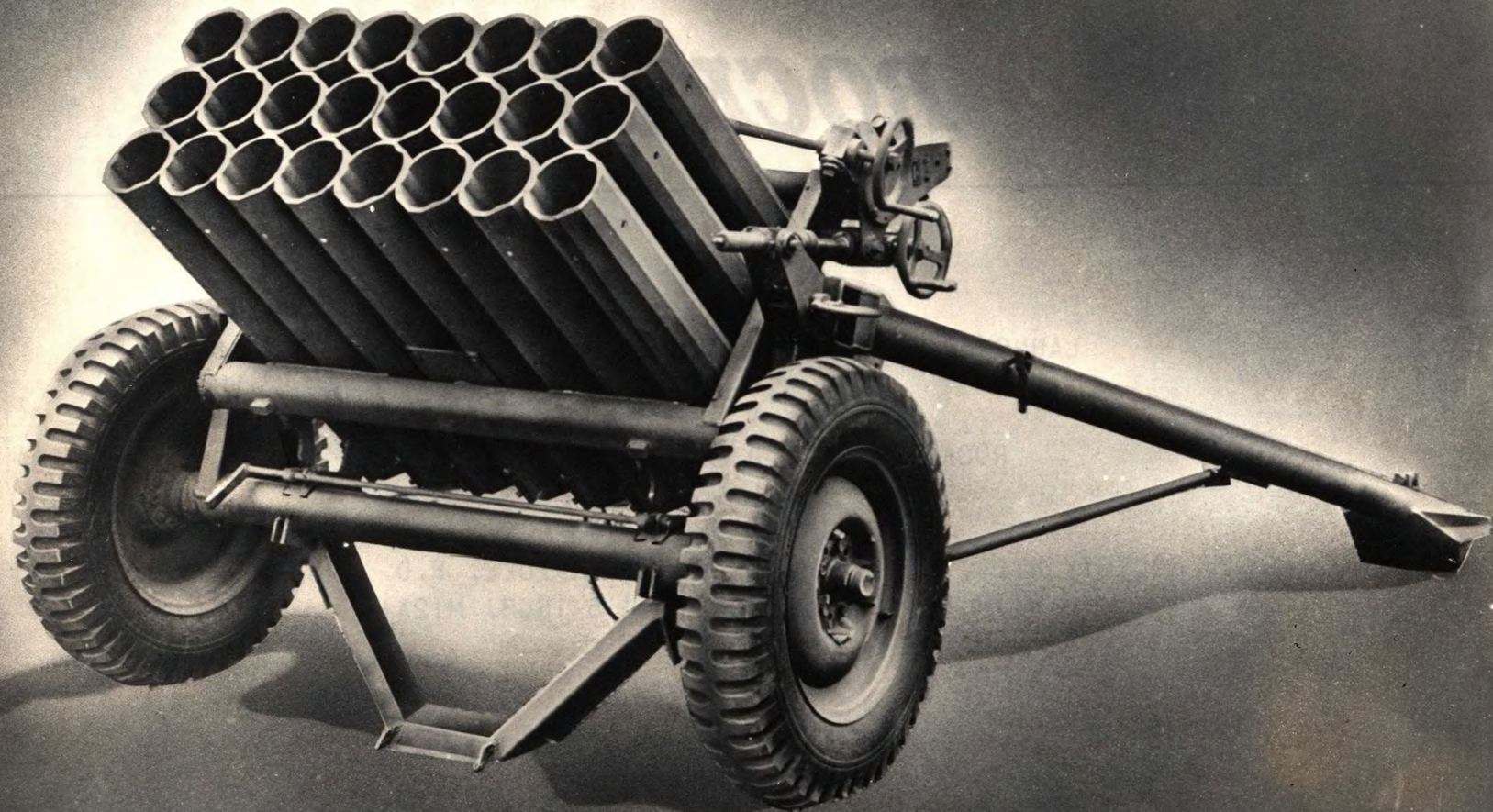
ROCKET, H.E., 4.5-INCH, T38E7, WITH FUZE, P.D., M81
WITH LAUNCHER, ROCKET, 4.5-INCH, M12A1

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LAUNCHER, ROCKET, MULTIPLE, 4.5-INCH, T66

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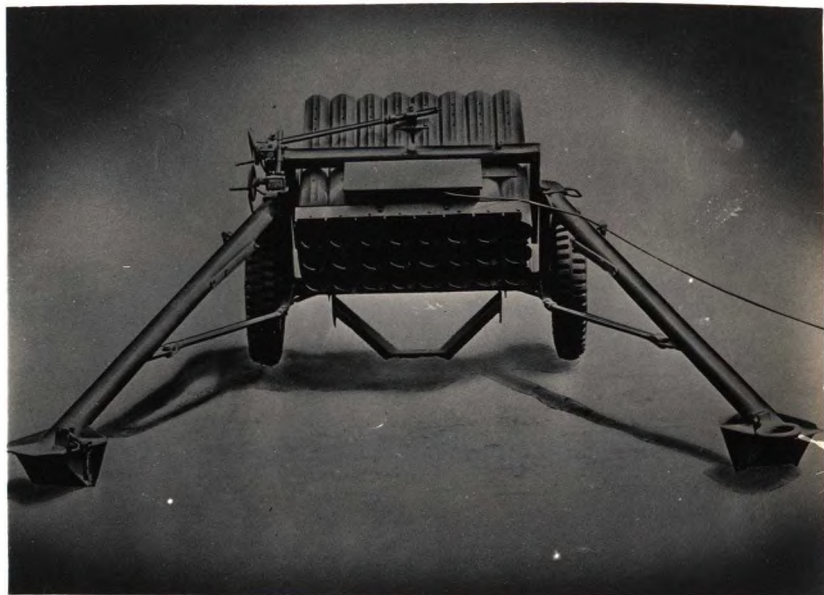
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CHARACTERISTICS

Weight, total.....1050 lb.(estimated)
Rails or tubes:
 Length.....36 in.
 Number and arrangement.....24 tubes in three
 8-tube banks
 Composition.....Aluminum
 Mounting.....2-wheel split-trail carriage
 for ground firing
Elevation.....0° to 45°
Traverse.....20° (10° R, 10° L)
Rate of fire.....Ripple fire at 0.5 sec. interval
Firing mechanism..Selective single round or ripple
 fire electric firing mechanism
Fire control equipment.....M4 Mortar Sight
 and Quadrant

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Rear view of Launcher, Rocket, Multiple, 4.5-inch, T66.

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Limited Procurement Type)

AVAILABLE, 1944 - SIX PILOTS

AVAILABILITY SCHEDULE, 1945

January - 60

February - 40

TOTAL SCHEDULE - 100

SECRET

Motor Assembly:

Diameter outside.....4.5 in.

Length.....20 in.

Weight (less propellant).....12 lb.

Material.....WD 8630 or WD 4130 seamless steel
tubing

Propellant...4.75 lb. solvent extruded double base
powder, 7/8 in. O.D. by 9/32 in.
I.D. by 5 1/4 in. or 5 1/2 in. long

Type of loading.....Twenty 5 1/2 in. sticks and ten
5 1/4 in. sticks strung on a
ten-wire cage

Shell assembly

Caliber.....4.5 in.

Length.....9.4 in.

Filler.....TNT

Weight, filler.....5.2 lb.

Weight, total.....17 lb.

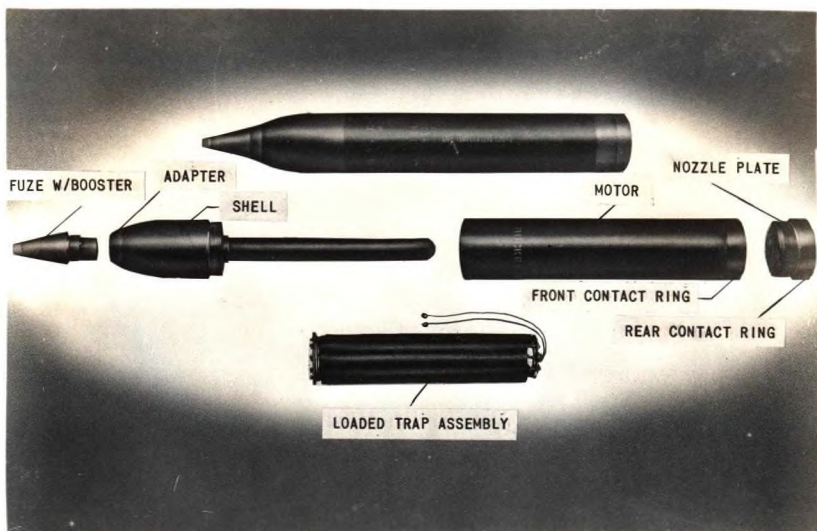
Type of ignition...Bayonet type igniter consist-
ing of black powder and elec-
tric squib in ethyl cellulose
envelope anchored to cage hold-
ing propellant. Ignition sys-
tem contact is made by contact
rings instead of plug type
ignition

Launchers.....T62, T63E1, T66, T72

Packaging.....probably similar to M8

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Complete round and disassembled view of Rocket,
H.E., 4.5-inch, T38E3.

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Limited Procurement Type)

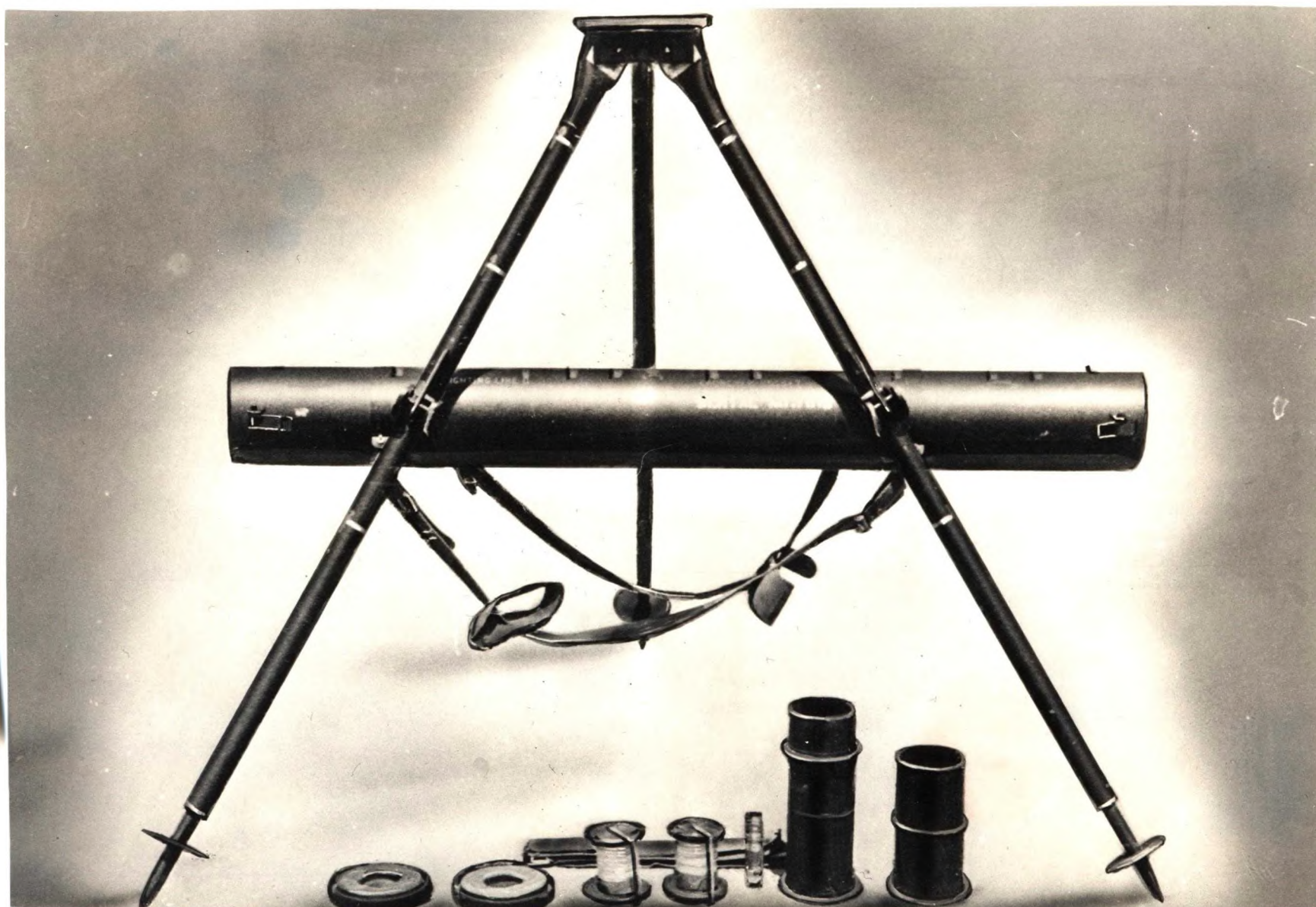
AVAILABILITY SCHEDULE, 1945

January	- 15,000	May	- 150,000
February	- 60,000	June	- 175,000
March	- 90,000	3rd Quarter	- 600,000
April	- 140,000	4th Quarter	- 592,000
TOTAL SCHEDULE - 1,822,000			

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ROCKET, H.E., 4.5-INCH, T38E7, WITH FUZE,
P.D., M81 WITH LAUNCHER. ROCKET, 4.5-INCH, M12A1

SECRET



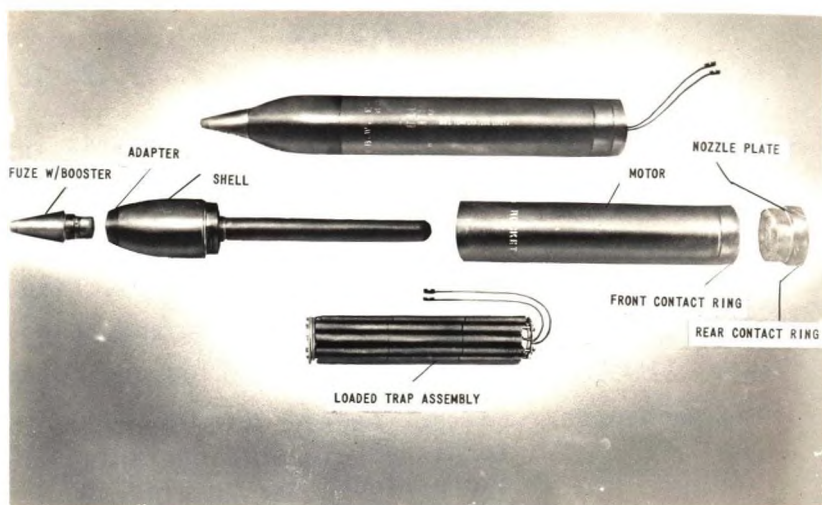
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CHARACTERISTICS

Range.....5,000 yd.
Dispersion.....9 mils
Velocity.....830 f/s
Service temperature limits.....-20° to +120° F
Burning time:
 AT -20°F.....0.34 sec.
 AT +120°F.....0.1 sec.
Type of stabilization....Rotational obtained by use
 of nozzle plate with 8
 angled jets
Length (w/o fuze).....28.7 in.
Weight of round (loaded w/o fuze).....40.5 lb.
Fuze.....P.D. M48A2 with Booster, M21A1
Motor Assembly
 Diameter outside.....4.5 in.
 Length.....20 in.
 Weight (less propellant).....12 lb.
 Material.....WD 8630 or WD 4130 seamless steel
 tubing
Propellant..4.75 lb. solvent extruded double base
 powder, 7/8 in. O.D. by 9/32 in.
 I.D. by 5 1/4 in. or 5 1/2 in. long
Type of loading.....Twenty 5 1/2 in. sticks and ten
 5 1/4 in. sticks strung on a
 ten-wire cage

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Complete round and disassembled view of Rocket, H.E., 4.5-inch, T38E7, with Fuze, P.D., M81.

Shell assembly

Caliber.....	4.5 in.
Length.....	9.4 in.
Filler.....	TNT
Weight, filler.....	5.2 lb.
Weight, total.....	17 lb.

Type of ignition... Bayonet type igniter consisting of black powder and electric squib in ethyl cellulose envelope anchored to cage holding propellant. Squib wires brought out through closure disc in the nozzle plate and connected to electrical firing mechanism

Packaging..... probably similar to M8

ROCKET, 4.5-INCH, M12A1

CHARACTERISTICS

Weight, total.....22 lb.

Rails or tubes:

Length.....48 in.

Number and arrangement.....Single tube

Composition.....Plastic

Mounting.....Tripod

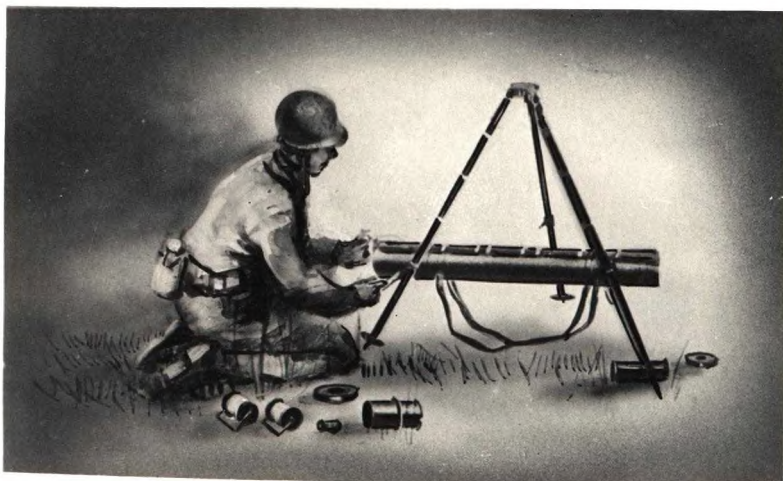
Elevation.....Fixed

Traverse.....By moving tripod

Rate of fire.....Discarded after firing one round

Firing mechanism...Battery packed with launcher
furnished electric current. Ten
cap exploder may be used for
salvo release of several rock-
ets at the same time

Fire control equipment...Folding peep sight and
front stud sight



*Rocket, H.E., 4.5-inch, T38E7, with Fuze, P.D.,
M181, with Launcher, Rocket, 4.5-inch, M12A1.*

SECRET

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Limited Procurement Type)

AVAILABLE, 1944 - 9,000

(Consists of M8A3 & T22 Rockets)

AVAILABILITY SCHEDULE, 1945

<i>February</i>	<i>- 5,000</i>	<i>May</i>	<i>- 5,000</i>
<i>March</i>	<i>- 5,000</i>	<i>June</i>	<i>- 5,000</i>
<i>April</i>	<i>- 5,000</i>	<i>3rd Quarter</i>	<i>- 15,000</i>
		<i>4th Quarter</i>	<i>- 4,000</i>

TOTAL SCHEDULE - 53,000

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MINES

MINE, AT, H.E., LIGHT, M7

MINE, AT, HE, HEAVY, M6

SECRET

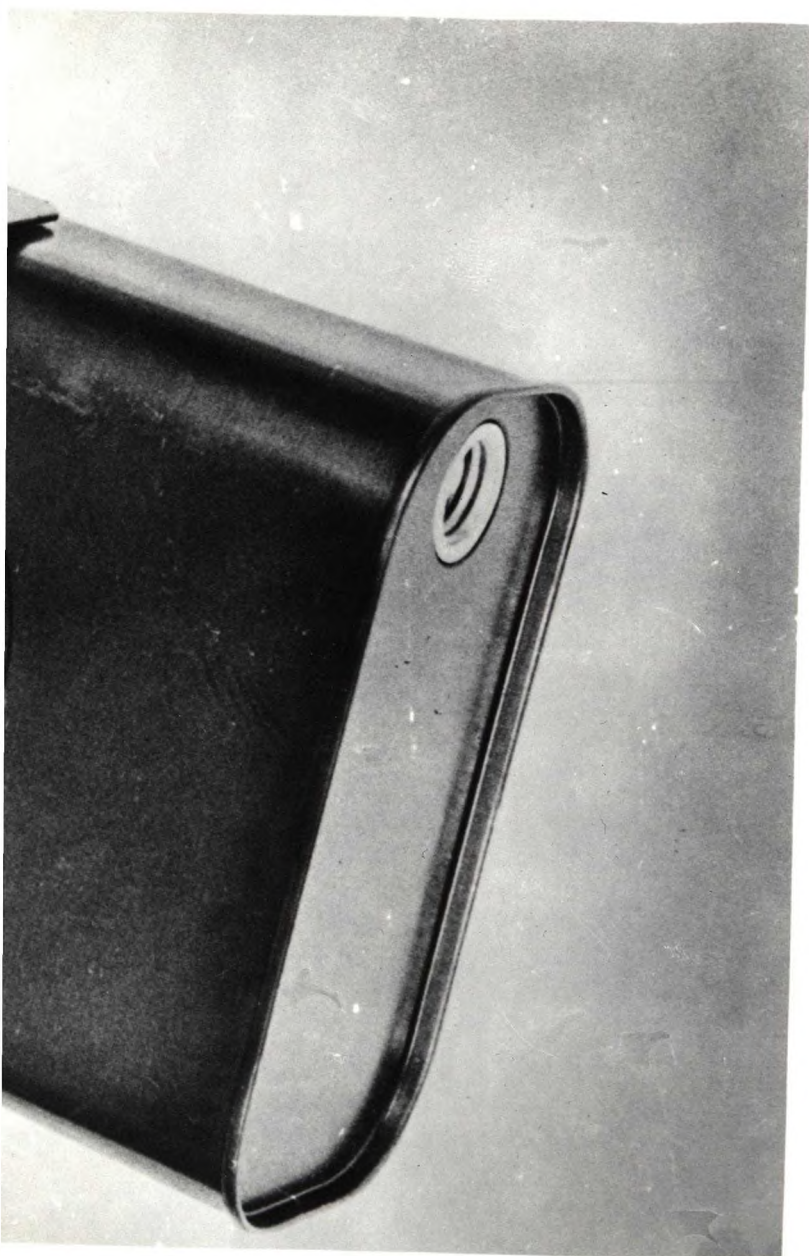
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MINE, AT, H.E., LIGHT, M7



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CHARACTERISTICS

Weight.....4 1/4 lb.
Weight, crated.....7 lb.
Volume, crated.....12 cu. ft.
Explosive charge.....3 $\frac{1}{2}$ lb. tetrytol
Over-all height.....2 $\frac{1}{2}$ in.
Over-all length.....7 in.
Over-all width.....4 $\frac{1}{2}$ in.
Mine body material.....Sheet metal (terne
plate)
Carrying handle.....Wire loop and plug, attachable
to activator well
Activator well.....End of mine, suitable for all stand-
ard thread Corps of Engineers firing
devices
Dimensions of pressure plate.....3 in. x 4 5/8 in.
Operating load.....190 $\pm$ 50 lb.
Operating temperature.....-40°F to +160°F
Deliberate emplacement.....1 in. (wrap in cloth bag
furnished)
Hasty emplacement.....Surface of ground
Maximum stream emplacement.....2 ft. of water
Blast resistance to adjacent mines.....5 ft.
Blast resistance to 3 bangalores(27 lb. HE)...5 ft.
with hasty emplacement

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Mine, AT, H.E., Light, M7, used in reduction of pill box.

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Standard Type)

AVAILABLE, 1944 - 918,000

AVAILABILITY SCHEDULE, 1945

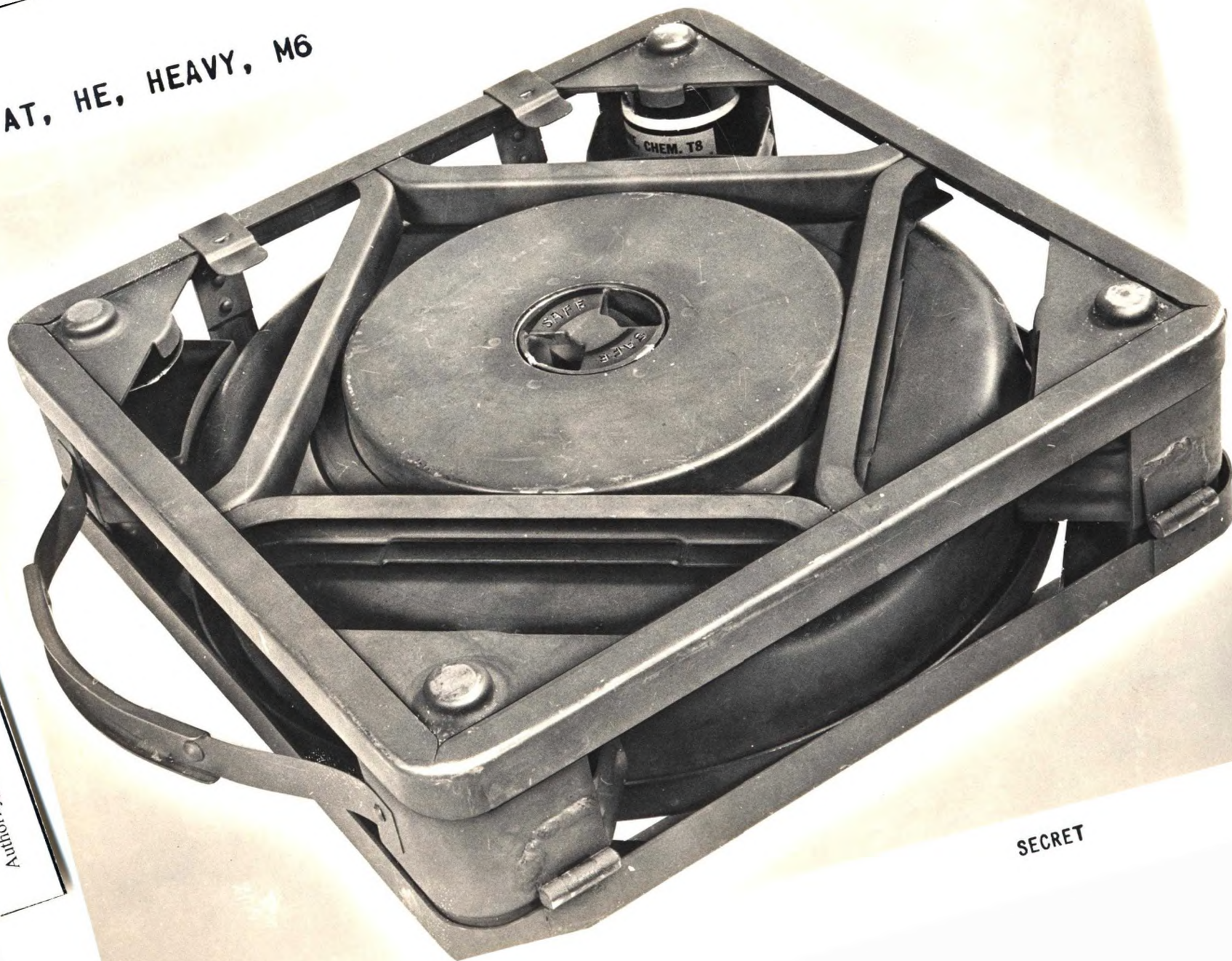
January	-	40,000	May	-	40,000
February	-	40,000	June	-	40,000
March	-	40,000	3rd Quarter	-	120,000
April	-	40,000	4th Quarter	-	93,000

TOTAL SCHEDULE - 1,371,000

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MINE, AT, HE, HEAVY, M6

SECRET



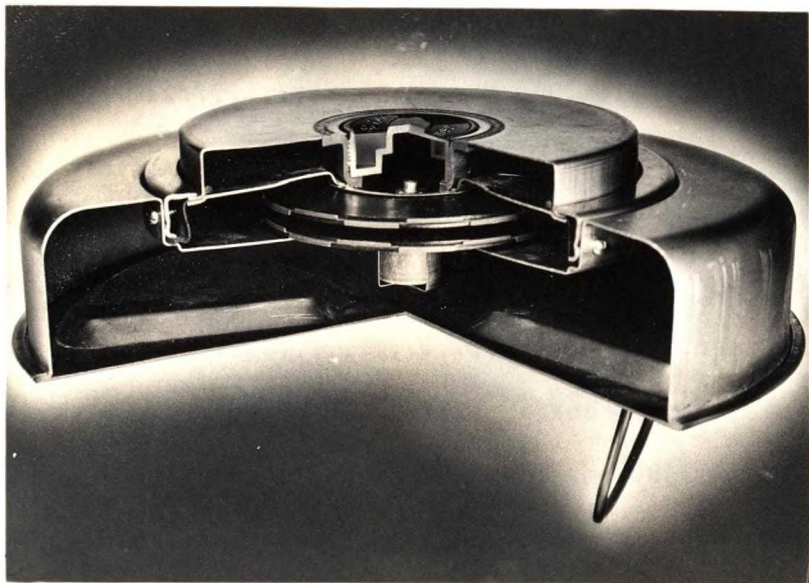
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Authority
M6
HEAVY
ANTI-TANK
MINE

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Weight.....	20 3/4 lb.
Weight, crated.....	30 lb.
Volume, crated.....	0.41 cu. ft.
Explosive charge.....	12 1/3 lb. TNT
Over-all height.....	3 3/8 in.
Over-all diameter.....	13 1/4 in.
Mine body material.....	Steel
Trip-wire connection.....	Side activation well
Anti-lifting connection....	Bottom activation well
Carrying handle.....	Concealed when emplaced
Location of bottom activation well.....	Random
Pressure-plate diameter.....	7 1/2 in.
Pressure-plate seal.....	Moisture and air seal
Operating load.....	350 ±50 lb.
Operating temperature.....	-40° to +160°F.
Blast resistance to adjacent mines...5 ft. centers when buried 2 in. or more 10 ft. centers above ground	
Blast resistance to 4 bangalores (37 lb. HE).....15 ft. when buried 2 in. or more	
Resistance to movement of pressure plate..... ...Belleville springs, trapped air, and fuze	
Movement required by pressure to contact fuze.... ...3/16 ±1/16 in.	
Type of fuze.....	Chemical

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Mine, AT, HE, Heavy, M6

PRESENT STATUS AND AVAILABILITY SCHEDULE

(Standard Type)

AVAILABLE, 1944 - 4,094,000

AVAILABILITY SCHEDULE, 1945

January	- 700,000	May	- 545,000
February	- 545,000	June	- 545,000
March	- 545,000	3rd Quarter-	1,635,000
April	- 545,000	4th Quarter-	946,000

TOTAL SCHEDULE - 10,100,000

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