76mm Gun M1, M1A1, M1A1C, and M1A2

	76mm Gun M1	, MIAI, MIAIC	, and MIA2	
Carriage and mount:				Medium tank M4 series in Mount M6
Length of Chamber (to Rifling):				22.46 inche
Length of Rifling:				133.54 inche
Length of Chamber (to projectile base):				20.7 inche
Travel of Projectile in Bore:	20.7 inches (square base projectiles			
Length of Bore:				135.3 inches (square base projectile
Depth of Breach Recess:				156.00 inches, 52 caliber
Length of Muzzle to rear face of Breach:				7.75 inche
Additional length, Muzzle Brake, etc.:	11.6 inches , Muzzle Brake M2 on M1A1C and M1A			
Overall length:			163.75 inches (M1	, M1A1),175.4 inches (M1A1C and M1A2
Diameter of Bore:				3.00 inche
Chamber Capacity:			142.6 cubic inch	es, (APC M62), 140.50 inches (HE M42A)
Weight Tube: (without muzzle brake)				870 pounds (M1), 940 pounds (M1A
Weight, complete (without muzzle brake)			1,141 pounds (M1), 1,2	206 pounds (M1A1C), 1,231pounds (M1A 2
Weight muzzle brake M2:				62 pound
Total Weight:			1,140 pounds(M1), 1,2	68 pounds (M1A1C), 1,293 pounds (M1A2
Type of Breechblock:				Semiautomatic sliding wedge
Rifling:		28 groves, unifom right h	hand twist, one turn in 40 c	alibers (M1/A1/A1C) or 32 calibers (M1A2
Ammunition:				Fixe
Primer:				Percussio
Weight Complete Round in pounds:		APC M62 2	4.80, HVAP M93 18.91, I	HE M42A1 24.24, HC BI M88 smoke 13.4
Weight, Projectile in pounds:		APC M62	2 15.44, HVAP M93 9.40,	HE M42A1 15.00, HC BI M88 smoke 7.3
Maximum Powder Pressure:				43,000 p
Maximum Rate of Fire:				20 rounds a minut
Muzzle Velocity: Muzzle Energy of Projectile: KE=1/2MV ² Rotational energy is neglected and valuse are based on long tons (2,240 pounds)				P M79 2,600 ft/sec, HE M42A1 2,700 ft/se AP M79 703 ft-tons, HE M42A1 650 ft-tor
Maximum Range (independent of mount):		M62 16,100 ya	rds, M93 13,100 yards, M ′	79 12,770, M42A1 14,200, M88 2,000 yard
	Gun Penatrat	ion Tables		
Shell Name	500 Yards	1000 Yards	1500 Yards	2000 yards
APC M62 Projectile (APCBC/HE-T)	3.7 inches	3.5 inches	3.2 inches	3.0 inches
	93mm	88 mm	82mm	75mm
HVAP M93 Shot(AP-T)	6.2 inches	5.3 inches	4.6 inches	3.9 inches
	157mm	135mm	116mm	64mm
AP M79 Shot (AP-T)	4.3 imches	3.6 inches	3.0 inches	2.5 inches
	109mm	92mm	76mm	64mm

Chart created by the Sherman tank site with data from Hunnicutt's Sherman book and various technical manuals.

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Notes: