

17 Pounder Mks IV and VII

Carriage and mount:	Cruiser Tanks Sherman IC and VC in mounting No. 2. MkI, 17pdr Achilles IIC in Mtg No.3 Mk I
Length of Chamber (to Rifling):	23.21 inches
Length of Rifling:	140.24 inches
Length of Chamber (to projectile base):	21.42 inches
Travel of Projectile in Bore:	144.03 inches
Length of Bore:	165.45 inches, 55.1 calibers
Depth of Breach Recess:	9.51 inches
Length of Muzzle to rear face of Breach:	174.96 inches, 58.3 calibers
Additional length, Muzzle Brake, etc.:	9.1 inches
Overall length:	184.1 inches
Diameter of Bore:	3.00 inches
Chamber Capacity:	300cubic inches
Weight Tube (w/o muzzle brake):	1,121.5 pounds
Weight Muzzle Brake	47 pounds
weight complete (w/o muzzle brake):	1,985 pounds
Total Weight:	2,032 pounds
Type of Breechblock:	Semiautomatic, horizontal sliding wedge.
Rifling:	20 groves, unifom right hand twist, one turn in 30 calibers
Ammunition:	Fixed
Primer:	Percussion
Weight Complete Round in pounds:	APCBC Mk. VIII T Shot , 37.5 pounds, SVDS Shot 28.4 pounds, HE MK1 T Shell 34.2 pounds
Weight, Projectile in pounds:	APCBC Mk. VIII T Shot , 17.0 pounds, SVDS Shot 7.9 pounds, HE MK1 T Shell 15.4 pounds
Maximum Powder Pressure:	47,000 psi
Maximum Rate of Fire:	10 rounds a minute*
Muzzle Velocity:	APCBC Mk. VIII T Shot , 2900ft-sec, SVDS Shot 3950ft-sec, HE MK1 T Shell 2950ft-sec full charge 1800ft-sec reduced charge ***
Muzzle Energy of Projectile: KE=1/2MV ² <small>Rotational energy is neglected and valuse are based on long tons (2,240 pounds)</small>	APCBC Mk. VIII T Shot 991ft-tons, SVDS Shot 854ft-ton, HE MK1 T Shell 929ft-tons full 346ft-tons reduced charge
Maximum Range (independent of mount):	He Mk O T Shell (He-T), Full Charge 17000 yards

Gun Penetration Tables

Shell Name	500 Yards	1000 Yards	1500 Yards	2000 yards
Homogenous Armor at 30 degrees obliquity				
APCBC Mk. VIII T Shot (APCBC-T)	5.5 inches	5.1 inches	4.7 inches	4.4 inches
	140mm	130mm	120mm	111mm
SVDS Shot (APDS-T)**	8.2 inches	7.6 inches	6.9 inches	6.3 inches
	208mm	192mm	176mm	161mm

Chart created by the Sherman tank site with data from Hunnicutt's Sherman

* This rate of fire was not achievable in the Sherman Fireflys or Achilles, but a good towed AT gun crew might do it.

** This round had accuries problems for most of the war, if not after.

*** the reduced charge round allowed a larger he charge but only made it into the war very late if at all

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Notes: