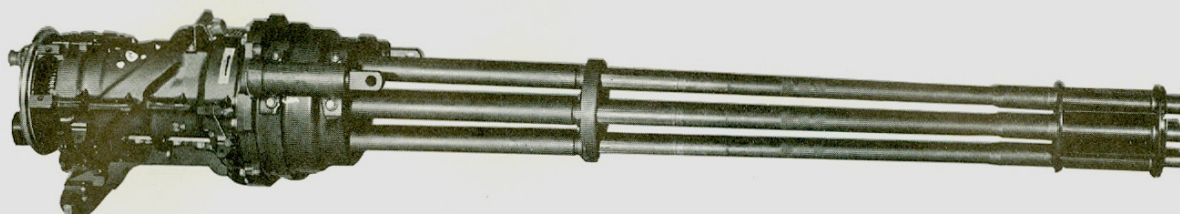




AIRBORNE AND SURFACE GUN SYSTEMS

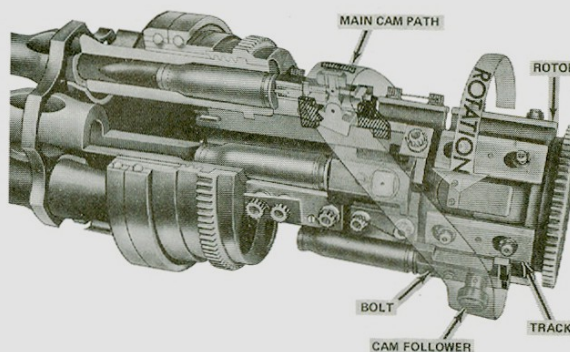


M61A1, 20-MM VULCAN GUN

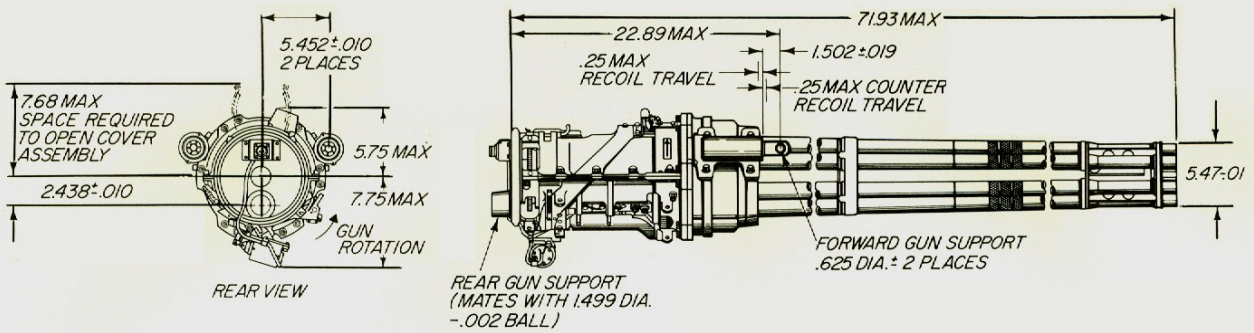
The M61A1 20-mm Vulcan is an externally powered gun having a cluster of six barrels capable of firing at rates of up to 6000 shots-per-minute. The gun is readily adaptable to a wide variety of aircraft and surface vehicles. The gun and either a linked or linkless feed system can be tailored to fit within available space in virtually any position.

The gun is basically a Gatling type mechanism. Each of the gun's six barrels fires only once during each revolution of the barrel cluster. Barrels are attached to the gun rotor by interrupted threads. No head space adjustment is required. The gun rotor is journaled within a stationary outer housing and contains the six gun bolts. The bolts slide fore and aft on tracks and provide the ram, lock, fire, unlock, and extracting functions. The stationary outer housing includes a main cam which drives the bolts through their respective functions. The six rotating barrels contribute to a long weapon life by minimizing barrel erosion and heat generation. This method of operation also stabilizes recoil forces and permits accurate predictions for design of mounting structures. "Cook offs" are eliminated by the low rate of fire per barrel

and by either the automatic clearing feature which places all six bolt assemblies into hold-back at the end of each burst, or by using a declutching feeder which permits firing of all ammunition in the gun.



The M61A1 Vulcan gun currently arms the A-7D, A-7E, F-4E, F-14, F-15, F-111, F-106, A-10A prototypes, and lightweight fighter aircraft and in the SUU-16/A gun pod. The Vulcan Air Defense System uses a slightly modified M61A1. The predecessor to the M61A1, the M61, arms the F-104, F-105, and B-52H aircraft.



CHARACTERISTICS

GUN

Length	73.4 in.
Width	13.2
Height	13.5 in.
Weight	255 lbs.
No. of Barrels	6
Gun Life	150,000 rds.

BORE 20-mm

BARREL

Length	60 in.
Weight	18 lbs.
Barrel Life (per set)	20,000 rds. (Minimum)

AMMUNITION M50 Series

METHOD OF OPERATION Externally powered, Gatling type

FEED SYSTEM Linked or linkless

RATE OF FIRE Variable to 6000 spm

MUZZLE VELOCITY 3380 ft./sec.

AVERAGE RECOIL FORCE

@ 4000 spm	2661 lbs.
@ 6000 spm	3818 lbs.

POWER REQUIRED

@ 4000 spm	8 h.p.
@ 6000 spm	20 h.p.

RELIABILITY 100,000 MRBF

FOR MORE INFORMATION, WRITE TO:
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