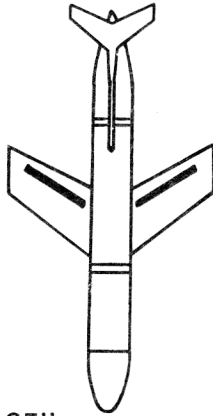


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C6  
MACE A/char

# Characteristics Summary

TACTICAL MISSILE (RFML) . . . . . MGM-13B (TM-76A)



"MACE"



MARTIN

Wing Area . . . . . 151.5 sq ft      Length . . . . . 44.2 ft  
Span . . . . . 22.9 ft      Height . . . . . 9.7 ft

## AVAILABILITY

Number available

ACTIVE

RESERVE

TOTAL

## PROCUREMENT

Number to be delivered in fiscal years

AVAILABILITY			PROCUREMENT			
Number available			Number to be delivered in fiscal years			
ACTIVE	RESERVE	TOTAL				

## STATUS

1. First YMGM-B (formerly YTM-61B) . . Oct 55
2. First synthetic film flight . . . . . Apr 58
3. Production . . . . . May 58
4. End of R&D . . . . . Apr 59
5. Squadron Deployment . . . . . Apr-May 59
6. Rapid Fire Multiple Launch (RFML)
7. Posture proved . . . . . May 60
8. RFML incorporated tactically . . . . . Oct 61
9. MGM-13B being converted to non-recoverable target drone - MQM-13A.

Navy Equivalent: None

Mfr's Model: - - -

## POWER PLANT

(1) J33-A-41

Allison

### THRUST RATINGS

S. L. S. LB - RPM - MIN  
(Inflight)  
Max: 5200 - 12,150 - 30  
Nor: 4600 - 11,750 - Cont

### BOOSTER

Nr & Model . . (1) \* M-16E1-3  
Mfr . . . . Thiokol Chem. Corp  
Thrust (lb) . . . . . 101,152  
Duration (sec) . . . . . 2.67

Nominal (70° F)

\*With TUX-IS-140 igniter

## FEATURES

Tactical Missile capable of destroying targets thru low-level approaches  
Swept shoulder type wing  
"T" type tail  
Self-contained guidance  
All weather operation  
Low level operation reduces vulnerability to enemy radar detection  
Rapid Fire Multiple Launch permits all alert missiles to be launched in approx 10 minutes in salvos of 4  
Launched from zero length launcher from hardened sites with assist from booster rocket

Max Fuel Cap: 1029 gal

## GUIDANCE

- (a) INITIAL:  
Programmed Pitch and Air-speed Control  
(b) MID-COURSE:  
ATRAN map-matching from lock-on point to end of mission  
(c) TERMINAL: None--  
Missile detonation programmed at end of mission

CONTROL

Auto-pilot

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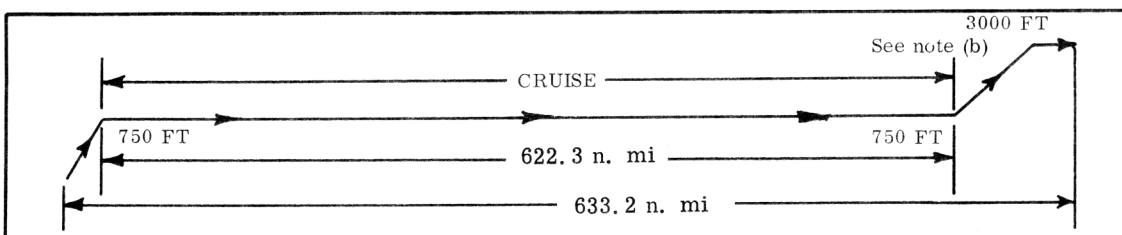
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MGM-13B (TM-76A RFML)

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## Characteristics Summary Basic Mission MGM-13B (TM-76A RFML)



### PERFORMANCE

ENDURANCE	RANGE	S P E E D
NOT APPLICABLE	633.2 naut mi. with 1700 lb payload at 470 knots avg. in 1.35 hours	CRUISE 470 knots at 750 ft alt, power 11,280 RPM (96% RPM)
LAUNCHING	CLIMB	ALTITUDE
Ground launched from hardened sites on Zero-length launcher. No catapult or runway required but a RATO booster is used for additional thrust.	2200 fpm sea level, initial climb wt., max power	Begin Cruise 750 ft.
	2110 fpm 750-3000 ft alt, final climb wt., 11,280 RPM (96% RPM)	End Cruise 750 ft.
L O A D	W E I G H T S	TARGET ACCURACY
Payload: 1700 lb  Fuel: 1029 gal protected 0 % droppable 0 % external 0 %	Empty 8904 lb  Launch 18,569 lb (see note c)	SYSTEM CEP Guidance CEP . . . 1310 feet Weapon System CEP . . . . . . . . . 1510 feet

### N O T E S

- PERFORMANCE BASIS:
  - Estimated data
  - Missile is detonated at altitude at end of mission
  - Includes weight of booster rocket
- REVISION BASIS: Data coordinated by (WRAMA) To reflect conversion to non-recoverable target drone (MQM-13A).