Characteristics Summary

TACTICAL MISSILE .......... CGM-13B (TM-76B)

MACE

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

STATUS

1. First Inertial Guidance Flight ... (YCGM-13C) .......... 6 Feb 58
2. First Production Delivery (CGM-13C) ........................ Nov 60
3. Final R & D Flight (YCGM-13C) .......... Apr 61
4. First Deployment (CGM-13C) .......... Sep 61
5. CGM-13C (TM-76B) redesignated
   CGM-13B (TM-76B).

Navy Equivalent: None

POWER PLANT

(1) J33-A-41
ALLISON
ENGINE RATINGS
SLS LB RPM MIN (In flight)
Max: 5200 - 12,150 - 150
BOOSTER
Nr & Model .......... (1)M16E3
Mfr ................. Thiokol
Thrust (lb) .......... *101,152
Duration (sec) ........ 2.67

*Nominal (70°F)

FEATURES

High level, low level or high-low level combination capabilities
Up to 4 off-course deviations
Up to 20 altitude changes during altitude programming
Non-emanating, non-jammable inertial guidance
Finger type spoilers for lateral control
All movable stabilizer for pitch control
Honeycomb wing and tail construction
Launched from zero length launcher in the hardened site
Termination by pull-up, push-over, or ballistic dive
Max Fuel Cap: 1629 gal

ARMAMENT

Type Mark MK-28
Weight 1675 ± 50 lbs

1. I.G. system for low level air burst
2. Impact crystals for airburst back up or as a primary option

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Characteristics Summary Basic Mission CGM-13B (TM-76B)

**Performance**

<table>
<thead>
<tr>
<th>Endurance</th>
<th>Range</th>
<th>Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>High Altitude</strong></td>
<td><strong>Low Altitude</strong></td>
<td><strong>Cruise</strong> 503 knots</td>
</tr>
<tr>
<td>1200 naut mi</td>
<td>585 naut mi</td>
<td>at 11,280 rpm (96%)</td>
</tr>
<tr>
<td>at 480 kn avg in 2.5 hr avg</td>
<td>at 503 kn avg in 1.16 hr avg</td>
<td>See Note (d)</td>
</tr>
</tbody>
</table>

**Launching**

- Zero length launched from hardened site, RATO booster is used for additional thrust.

**Climb**

- 3380 fps minimum at Sea Level
- 2200 fps at Sea Level
- See Note (b)
- Begin Cruise . . . . 750 ft
- End Cruise . . . . 750 ft
- See Note (b)
- 46,400 ft at Dumps

**Load Weights**

- Empty . . . . 9046 lb
- Launch . . . . 18,710 lb
- See Note (c)
- Fuel: 1029 gal
- protected 0 %
- droppable 0 %
- external 0 %

**Target Accuracy**

- System CEP
- CEP .70 NM (600 NM)*
- CEP 1.20 NM (900 NM)
- CEP 2.00 NM (1200 NM)
- *System CEP as an interval estimate with 95% confidence in between .515 NM & 1.658 NM

**Notes**

1. Performance Basis:
   (a) Missile is detonated by airburst or upon impact
   (b) MACE is capable of two basic missions: data appearing in upper blocks pertain to high altitude mission while lower block data pertain to low altitude mission.
   (c) Includes weight of booster rocket (charge and sling).
   (d) For altitude programming flights engine rpm is increased. Airspeed will vary.

2. Revision Basis: Data reeorded. (WRAMA) To reflect security classification change to Confidential and to show CGM-13B(TM-76B) model designation in place of CGM-13C(TM-76B).