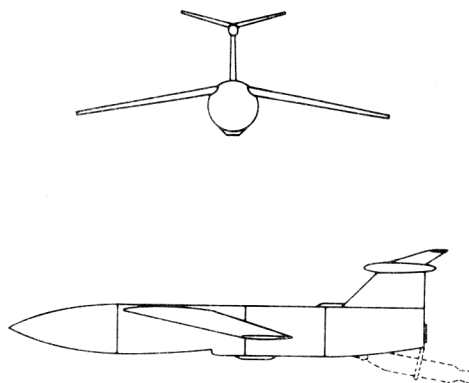
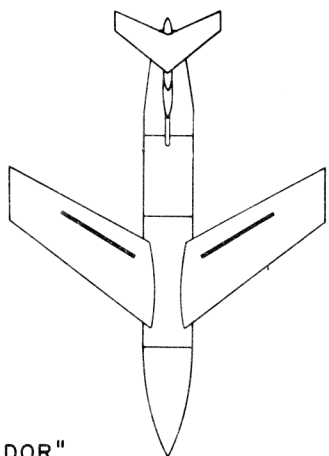


# Characteristics Summary

TACTICAL MISSILE . . . . . TM-61A & C



"MATADOR"

MARTIN

Wing Area . . . . . 176.7 sq ft    Length . . . . . 39.7 ft  
 Span . . . . . 27.9 ft    Height . . . . . 9.7 ft

### AVAILABILITY

### PROCUREMENT

Number available

Number to be delivered in fiscal years

ACTIVE	RESERVE	TOTAL			

### STATUS

- |   |   |
|---|---|
| <ol style="list-style-type: none"> <li>1. Matador Project Initiated: Aug 45</li> <li>2. First Flight (XSSM-A-1): Jan 49</li> <li>3. TM-61A-1st USAF Launch: Mar 53</li> <li>4. TM-61C-1st Launch: Jan 56</li> </ol> | <ol style="list-style-type: none"> <li>5. Externally the TM-61C is the same as the TM-61A. The principal difference from the TM-61A is the addition of SHANICLE hyperbolic mid-course guidance system equipment.</li> </ol> |
|---|---|
- Navy Equivalent: None Mfr's Model: . . . . .

### POWER PLANT

### FEATURES

### GUIDANCE

(1) J33-A-37  
 Allison

**THRUST RATINGS**

S.L.S.    LB - RPM    - MIN  
 Max:    4600 - 11,750 - 5  
 Mil:    - - - - -  
 Nor:    4600 - 11,750 - Cont

**BOOSTER**

No. & Model (1) . . . . . T-50  
 Mfr . . . . . Picatinny Arsenal

Thrust (lb) . . . . . \*57,000  
 Duration (sec) . . . . . 2.4

\*Nominal

Shoulder-type swept wing;  
 "T" type tail  
 Honeycomb construction  
 used in airfoil sections  
 Finger type spoilers for  
 lateral control  
 All movable stabilizer  
 Mono-coque fuselage with  
 flush type air inlet  
 Alternate modes of mid-  
 course guidance available  
 for TM-61C version

Max Fuel Cap:    404.8 gal

(a) INITIAL: Fixed bias  
 pitch control plus pro-  
 grammed air speed  
 control

(b) MID-COURSE: MARC -  
 (AN/MSQ-1 radar track  
 and AN/APW-11A air-  
 borne beacon) for TM-61A  
 MARC plus SHANICLE  
 hyperbolic for TM-61C

(c) Programmed semi-  
 ballistic, zero-g dive

**CONTROL**

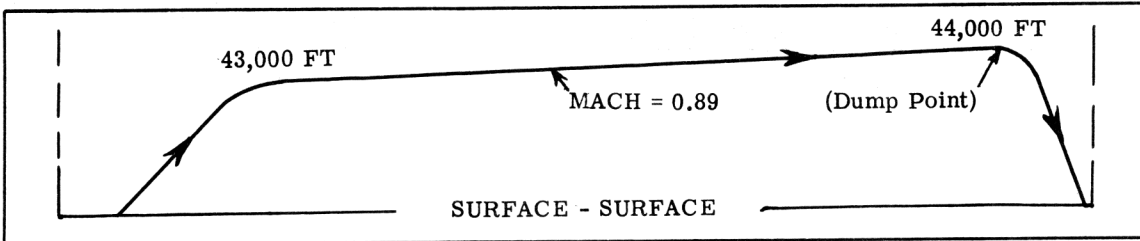
Electro-hydraulic autopilot

CLASSIFICATION CANCELLED  
 (OR CHANGED TO UNCLASSIFIED)  
 BY AUTHORITY OF DOD DIR 5700.10  
 (INDIVIDUAL OR WRITTEN AUTHORITY)  
 BY *a.r. Sornbor* 8 Oct 68

Classification cancelled.  
 or changed to *Unclassified*  
 AUTH: *AJG AHC Wd. Cess. Guide*  
 BY *a.r. Sornbor* 7 Apr 69  
 Signature and Grade

CG/Matador B-61A/Chan

*Characteristics Summary Basic Mission . . .* TM-61A & C



P E R F O R M A N C E		
ENDURANCE	RANGE	S P E E D
NOT APPLICABLE	(see note b) 600 naut mi. with 3000 lb payload at 512 knots avg. in 1.25 hours	MAX 512 knots at 44,000 ft alt, mil power
LAUNCHING	CLIMB	ALTITUDE
Ground-launched from a zero length launcher with additional boost provided by a T-50 rocket.	4900 fpm sea level, launching wt., max power	Begin Cruise 43,049 ft.  End Cruise 44,200 ft.
L O A D	W E I G H T S	TARGET ACCURACY
Warhead: 3000 lb  Fuel: 404.8 gal	Empty 9203 lb  Launch 13,593 lb	Design CEP = 1500 ft TM-61A . . . . 2700 ft* TM-61C . . . . 1750 ft*  *(see note c)

**N O T E S**

1. PERFORMANCE BASIS:  
 (a) Calculated data based on Wind Tunnel data and Preliminary Flight Tests  
 (b) Maximum Guidance Range using MARC equipment is limited to 175 nautical miles--  
 Maximum Guidance Range using SHANICLE equipment is limited to 220 nautical miles.  
 (c) At 165 nautical miles. CEP varies with range and guidance orientation.  
 2. REVISION BASIS: Data reCOORDINATED this date.