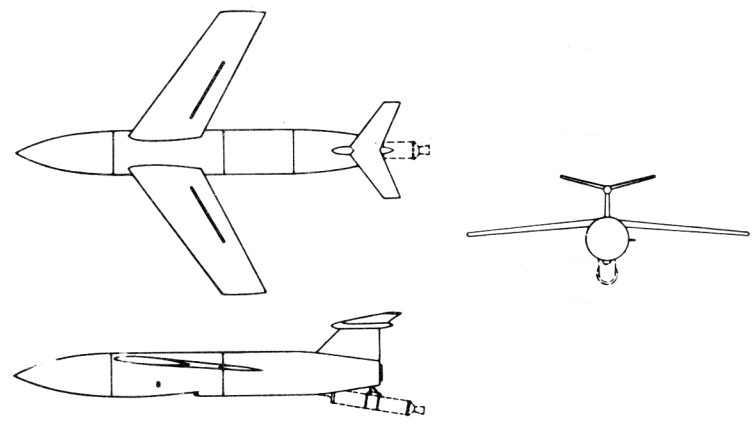


Characteristics Summary

TACTICAL MISSILE TM-61A



"MATADOR" MARTIN

Wing Area 176.7 sq ft Length 39.6 ft
 Span 28.7 ft Height 9.7 ft

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

STATUS

1. Project Initiated: Aug 45
2. First Flight (prod. article): Nov 52
3. First Flight (XSSM-A-1): 19 Jan 49
4. First Flight (YB-61): 22 Dec 50
5. Two TM-61A Squadrons deployed: 1954

Navy Equivalent: None Mfr's Model: - - - -

POWER PLANT

(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

FEATURES

Movable Horizontal Stab-
ilizer
 Spoiler Type Ailerons
 Honeycomb Wing Construction

Max Fuel Cap: 410 gal

GUIDANCE

SYSTEM

(a) INITIAL:
Programmed air speed control

(b) MID-COURSE:
MARC (AN/APW-11
used with AN/MSQ-1)

(c) TERMINAL:
Zero lift(ballistic dive)

CONTROL

Electro-hydraulic auto-pilot

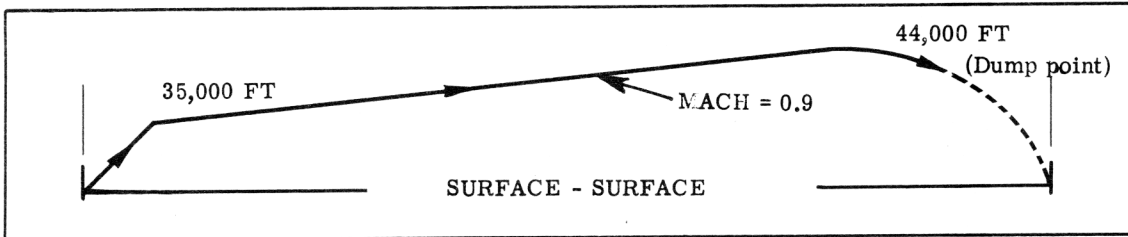
CG/Matador TM-61A/char

unclassified
 P O O Div 500.10
 a R. Somelorn 17 Jan 68

Classification cancelled
 or changed to Unclassified
 AUTH: AFSC AF 42 Dec 65
 BY: a. R. Somelorn 17 Jan 68
 Signature and Grade

4th ed addn #6

Characteristics Summary Basic Mission TM-61A



PERFORMANCE		
ENDURANCE	RANGE	S P E E D
NOT APPLICABLE	(see note b) 600 naut mi. with 3050 lb payload at 518 knots avg. in 1.15 hours	MAX 518 knots at 44,000 ft alt, normal power
LAUNCHING	CLIMB	ALTITUDE
Ground-launched from a zero length launcher with additional boost provided by a T-50 rocket.	NOT AVAILABLE fpm sea level, launching wt., max power	Begin Cruise 35,000 ft.
	NOT AVAILABLE fpm ft alt, begin cruise wt., max power	End Cruise 44,000 ft.
L O A D	W E I G H T S	TARGET ACCURACY
Warhead: 3050 lb Fuel: 410 gal protected 0 % droppable 0 % external 0 %	Empty 5747 lb Launch 13,142 lb* * Includes booster.	Design CEP = 1500 ft

N O T E S

1. PERFORMANCE BASIS:
 (a) Estimated data (Not substantiated by WADC)
 (b) Line-of-sight limitations to microwave propagation restricts the MATADOR with MARC guidance to 220 nautical miles.

2. REVISION BASIS: To change characteristics and performance data and missile nomenclature.