

DATA SHEET

GT-400

Glide Target



01 Description

The Meggitt Defense Systems GT-400 glide target is a low cost, expendable target designed for day to day, live fire exercises where conventional towed targets or expensive jet target drones are not an option.

The GT-400 has been successfully deployed and engaged by radar guided air-to-air and sea launched missiles such as the AMRAAM (AIM-120), Standard Missile and Aster 15 from target towing aircraft such as the Lear-35 and Dassault Falcon-20 in the USA, Australia, France and Spain. While the basic target without augmentation provides a RCS of less than 0.1 m², it is typically enhanced by the inclusion of radar reflectors in the nose and/or tail cones.

Carried and launched in the same way as a standard towed target, it is reeled out and towed for as long as needed (time limited only by the tow aircraft on station fuel limitations) prior to being released to execute a mission profile that has been pre-loaded into the auto-pilot. The flight profile can be changed, up to the point of release, to allow for any required last minute flight changes that might arise due to a fouled range area or operational need.

The target is delivered in a box ready to fly after simple assembly of the wing, completion of preflight checks (involving weight & balance and control checks) and loading of the flight plan, all of which can be completed in approximately two hours. A flight simulator is provided to allow missions to be planned and checked prior to the flight.

02 Key features and benefits

- Low unit price and operating cost
- Range to 40 NM
- Pre-programmed flight using GPS navigation
- Target contains no fuel or hazardous materials
- No specialist maintenance requirements
- Speed range of 220-350 KTASKey feature

03 Applications

- Various

04 Contact

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Flight planning allows the use of multiple way points and speed changes between 220 and 350 KIAS during the mission. To ensure target cut off from the towline is done safely and accurately, the command and control station software is designed to prevent release until all required launch parameters are met. In the event the target is not destroyed, flight termination is implemented by any one of three methods: on command using the Command & Control Station, pre-programmed (based on a way point location) or via tone cut down in the unlikely event the main link is lost. Missions are recorded and can be replayed after the event to show the flight as it happened and/or permit evaluation of target performance.

05 Specifications

Diameter	7.5 in
Length	103 in
Wingspan	28.5 in
Weight	180 lbs
Power	(1) 12Vdc + (1) 6Vdc lead acid battery pack
Frequency	Standard frequency 400 - 450 MHz
Output	1 watt

Performance

When all launch conditions are met at point of release and not overridden, the GT-400 Glide Target offers the following flight performance:

Track accuracy	Better than 200m (excluding pre-turn)
Airspeed range	Programmable 220-350 KIAS +/- 25 KIAS
Typical firing (engagement) window	Within a box 3NM long x 1NM mile long
Final way point accuract for flight above initiation	Better than 200m



Target reel out at 220 KIAS

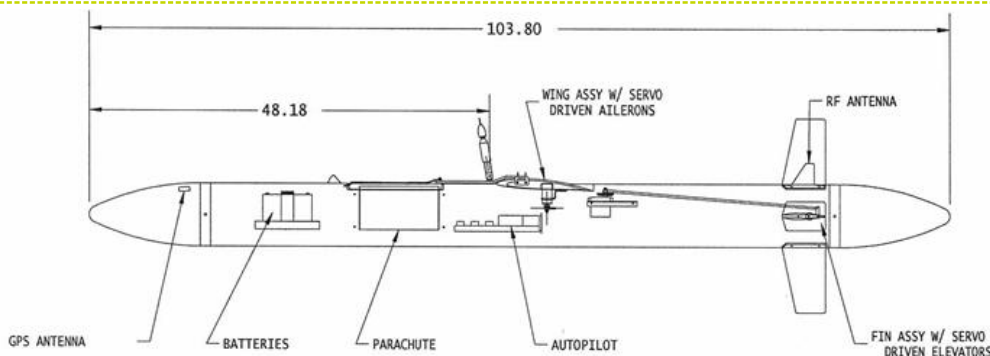


Target released and executes pre-programmed, multiple way point GPS navigation during free flight



Realtime scoring solutions

06 Outline details



Note: Due to continuous process improvement, specifications are subject to change without notice. TCO Review #99