

AGTS-36 Aerial Gunnery Target System



Features

- Equipped with Meggitt Defense Systems RADOPS real-time scoring system
- Scoring results instantly communicated to “attacking” pilots
- Certified for use with F-4, F-5, F-15, and F-16 aircraft and compatible with all other aircraft offering similar clearances
- Two-way reeling system permits recovery and reuse of tow targets
- Installed without major modification of tow aircraft
- Redundant towline cutters
- Simplified support equipment and maintenance/turnaround procedures
- Qualified for worldwide use in accordance with U.S. Military Specifications and Standards

Description

Developed in the early 1980s to replace the TDU-19B Dart target and interim A/A37U-33 (Secapem 90-6), the AGTS-36 system meets all aerial gunnery training requirements of a modern fighter aircraft. In volume production, it is the standard gunnery target for the U.S. Air Force and Air National Guard as well as the Japanese, South Korea, and Taiwan (RM-30B) Defense Forces.

With 6g maneuver capability, tow aircraft are able to execute all typical high-performance combat profiles such as figure eight, butterfly, and high-angle combat dart, as well as basic racetrack patterns.

The TDK-39 Target set includes advanced Doppler Radar Scoring (RADOPS) installed in the target's forebody featuring a self-contained telemetry transmitter and antenna. The airborne receiving station is installed in the tow aircraft reeling machine and scores are displayed in real time to the tow pilot for transmission to the shooter after each firing pass.

More than 5,000 targets have been delivered to date and this tow system, offering target recovery on completion of the firing mission, offers optimal performance at affordable cost.

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Equipment Elements

- RMK-35/A37U-36 Reeling Machine/Launcher
- TDK-39/A37U-36 Tow Target Visual Augmenter Sleeve
- RADOPS® Scoring System
- Cockpit Control - Display
- Peculiar Support Equipment
- Depot Support Equipment

Optional Characteristics

- Target Configuration: String-sleeve visual augmenter with aluminum forebody provides all-aspect visual and radar acquisition
- Target Deployment and Retrieval: Automatic functions initiated by simple commands from tow aircraft
- Captive Carriage: Up to 40,000 feet altitude, 0.9 Mach.
- Target Deployment: 1,000 to 25,000 feet altitude, 250 KCAS
- Target Employment: Up to 40,000 feet altitude, 0.9 Mach., 6g maneuvers
- Target Recovery: Reel-in at 1,000 to 25,000 feet altitude, 230-250 KCAS
- Reusability: No down-loading required; replacement feature of visual augmenter permits quick system turnaround
- Scoring: Doppler radar system installed in forebody. Conical antenna pattern projected around target sleeve for scoring realism. Accuracy not affected by airspeed or altitude. Real-time scoring for shooters
- System design: Qualified to meet worldwide operational requirements per MIL-STD-810 (Environmental Test), MIL-STD-461 (EMI), and MIL-STD-882 (System Safety)
- Integrated Logistics Support: Fully supported in U.S. Air Force ILS system

Additional Features

- AGTS-36 is compatible with F-4, F-15 and F-16 aircraft without modification and is readily certifiable with other aircraft
- Tow targets are recovered by means of two-way, reel-out/reel-in feature of RMK-35
- Scoring system counts 20mm and 30mm projectiles and provides results in real time with each firing pass
- Operating life of the basic non-expendable hardware, i.e., RMK-35 Reeling Machine/Launcher, RADOPS Airborne Receiving Station, and Peculiar Support Equipment is a minimum of ten years with scheduled maintenance and without major overhaul
- Visual augmenter sleeves are expended at the completion of a mission
- Quick installation/removal feature of RMK-35 makes tow aircraft readily available for other assigned duties
- Downloading is not required for system turnaround between missions

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