AGTS-36 AERIAL GUNNERY TARGET SYSTEM

Product 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.

Key features and benefits

- Equipped with Parker Meggitts RADOPS real-time scoring system
- Scoring results instantly communicated to "attacking" pilots
- 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 US military specifications and standards

Applications

- Certified for use with F-4, F-5, F-15, and F-16 aircraft and compatible with all other aircraft offering similar clearances

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AGTS-36 AERIAL GUNNERY TARGET SYSTEM

Specifications

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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Note: Due to continuous process improvement, specifications are subject to change without notice. TCO Review # 154