



ODIN-I (ETS-I)

ELEVATED TOW SYSTEM-I

- ★ TOW-missile system
- ★ Manual backup drives
- ★ Missile loading under armor
- ★ 76 mm grenade launchers
- ★ 360° turn
- ★ Easily integrate into a vehicle
- ★ Combat proven (TRL 9)



ELEVATED SUPERIORITY WITH THE ODIN-I (ETS-I) MAST

Overview

The ODIN-I (ETS-I) is a rugged, modular elevated mast system engineered for rapid deployment and multi-mission adaptability. Designed to integrate seamlessly with a wide range of vehicle platforms, ODIN-I combines heavy-lift capability, precision fire-control, and full-mobility operation to support sensors, weapons and counter-drone systems in austere environments.

Key Benefits

- High lift capacity: Rated to lift up to 1.5 metric tons, supporting large sensors and weapon payloads.
- Modular integration: Platform-agnostic modular design enables fast installation on most tactical vehicles.
- Protected operation: Fully operable from within the vehicle with missile reloading under armor.
- All-terrain mobility: Full mast elevation while retaining vehicle mobility across rough terrain.
- Wide environmental tolerance: Designed for extreme climates and continuous field operation.

General Characteristics

- Operation: Stationary/while-mobile operation; controlled from inside the host vehicle.
- Combat weight: 1.400 kg (system weight dependent on configuration).
- Power: Nominal 28 VDC, MIL-STD-1275A compatible.
- Elevation above chassis: Platform elevates approximately 0.5 m above chassis; line-of-sight approximately 0.7 m above vehicle top deck (platform dependent).
- Full mast elevation: Achieved with full mobility across all terrain types.



Weapons & Payloads

- Primary weapon fit: TOW missile systems (two-tube launcher standard).
 - Supports all TOW variants.
 - Ready missiles: 2 (standard two-tube).
 - Reload time: < 120 sec. (under-armor reload capability).
- Alternate armament: 76 mm grenade launcher options.
- Actuation: All-electric weapon/turret drives with manual backup drives for redundancy.
- Additional payloads: Stabilized EO/IR cameras, radar arrays, anti-drone payloads, communications relays.

Fire Control & Performance

- Accuracy: Comparable to ITAS (Improved TOW Artillery System) for TOW engagements.
- Azimuth: 360°C continuous rotation.
 - Slew rate: > 15°C/sec.
 - Slow tracking rate: < 0.15 mil/sec.
- Elevation: -20°C to +29°C.
 - Slew rate: > 15°C/sec.
 - Slow tracking rate: < 0.15 mil/sec.
- Engagement envelope: Capable of engaging targets at the full effective range of TOW missiles.

Environmental & Reliability

- Operational temperature range: -40°C to +70°C.
- Design: Field-hardened components, corrosion-resistant finishes, and mission-grade sealing for extended life in harsh conditions

Options & Configurations

- Overhead weapons station — configurable for additional hardpoints and remote weapon operation.
- Stabilized launcher / sight system — gyro-stabilized optics and fire-control for precision tracking on the move.
- 4-tube launcher system — increased ready round capacity for sustained engagements.
- Sensor packages: EO/IR turret, radar modules, RF/ELINT pods, C-UAV payloads.
- Customization: Tailored mission kits and vehicle interface packages available on request

Integration & Logistics

- Mounting: Modular mounting interfaces for rapid installation and minimal vehicle modification.
- Training & Support: Installation, operator training, and field support packages available.
- Maintenance: Designed for ease of maintenance with modular replaceable units and standard supply chain components.

Summary

The ODIN-I (ETS-I) elevated mast delivers a high-capacity, modular solution for mounting weapons and mission systems while preserving vehicle mobility and crew protection. With industry-grade fire control, all-electric actuation and rugged environmental tolerance, ODIN-I provides a flexible foundation for anti-armor, ISR, and counter-drone missions.





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