

# THOR

## Stand-off Defeat of Explosive Hazards



**Articulated Pedestal with  
Laser Beam Director, Gun,  
Laser Range Finder and  
Aiming Cameras**



**Add-on Remote Control Weapon  
Station**



Thor combines a high-energy laser and 12.7mm machine gun on a stabilized weapons pedestal with remote operator control station to provide a general purpose, standoff ordnance neutralization capability. This dual capability enables Thor to be used for offensive and defensive purposes, as well as for safe stand-off removal of explosive obstacles by laser directed energy or projectile kinetic energy. Thor enables freedom of movement for the press of capabilities that the Commander requires.

Thor is a modular ground vehicle add-on system for the Combat Engineering Core and EOD/IED Defeat Forces, to enable on-the-move removal of explosive obstacles such as IED's, mines, UXO and others, with embedded self-protection capability.

Developed by RAFAEL, Thor is combat proven and combat ready. Thor is now available for sale and integration in the US by General Dynamics Ordnance and Tactical Systems, through its teaming with RAFAEL.

### **FEATURES:**

**Modular system compatible with a variety of armored and mine-protected vehicles.**

- High-power, precision laser.
- 12.7mm automatic machine-gun
- Remote-controlled, stabilized weapon station.

### **Mission-Ready**

- Explosive Obstacle Clearance for Maneuver Support.
- Explosive Ordnance Disposal (EOD)
- UXO Remediation
- Defensive capability

**GENERAL DYNAMICS**

Ordnance and Tactical Systems

11399 16th Court North, Suite 200, St. Petersburg, FL 33716 Phone: (727) 578-8100

## Laser Ordnance Neutralization Sequence:



### General Characteristics:

External RCWS Weight:	250kg (including 12.7mm machine gun, munitions and Beam-Director)
Total Add-On Weight:	600 kg
Power Requirements:	250 Amp. @ 24VDC
Vehicle Installation:	Modular box set-up inside vehicle

### Laser Specifications:

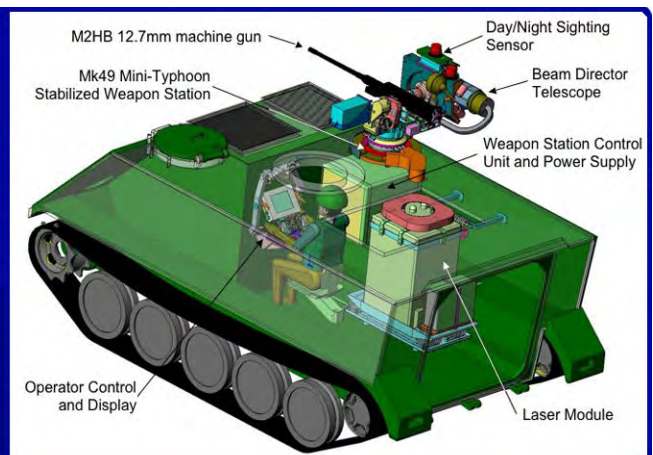
Output energy:	Variable, 70 to 700 Watt
Focus Mechanism:	Adaptable to target range
Laser Cooling:	Air-Cooled

### RCWS Characteristics:

US NAVY P/N:	(Based on) Mk-49 MOD0
Stabilization:	Two-Axis correction
Sighting Systems:	CCD-Zoom/IR Bolometric dual camera for Laser and gun; combined Laser Range Finder on Beam Director
User Interface:	Remote-operated control station with tracking, firing command and control, visual display and Rapid Mode Switch (Laser/Gun)
Operation Angles:	$\pm 150^\circ$ Azimuth; $+45^\circ$ , $-20^\circ$ Elevation
Slew rate:	Both axis: $50^\circ/\text{Sec.}$ through $<0.5 \text{ Mr./Sec.}$
Aiming Accuracy:	Less than 0.2 milliradians

Thor may be configured for temporary or permanent installation on any suitable combat vehicle.  
Thor imposes no additional limitation to its mover vehicle operation or mobility.

### Ground Vehicle Compatibility:



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