



HARPOON: RGM-84A-1, AGM-84A.



## HARPOON WEAPON SYSTEM

**RGM-84A-1 (Ship launch)**

**AGM-84A (Air launch)**

Harpoon, a new all-weather anti-ship missile system, is being developed by McDonnell Douglas Astronautics Company as prime contractor to the U. S. Navy. The Astronautics Company, a division of McDonnell Douglas Corporation, has been active in developing missiles for the U. S. Department of Defense for more than three decades.

The missile system provides beyond-the-horizon range for stand-off attack of enemy ships. High survivability and kill probability are assured by the low-level cruise trajectory, active radar guidance, counter countermeasures, and effective warhead design. Harpoon is capable of launch from either surface ships or aircraft, and compatible with current launch and fire control systems. Additional launch applications include submarines and patrol boats.

The program is being directed by the Naval Air Systems Command, Harpoon Program Office, PMA-258.

### System Elements:

- Missile — Common for all launch platforms
- Booster — Added for surface and submarine launch
- Launchers — Existing on planned launch platforms
- Command and Launch System — Common Data Processor permits integration with existing ship and aircraft launch systems.

<b>Length:</b>	180 in. ship launch, 151 in. air launch
<b>Diameter:</b>	13.5 in.
<b>Weight:</b>	1470 lb. ship launch, 1150 lb. air launch
<b>Range:</b>	Over-the-horizon
<b>Propulsion:</b>	Air-breathing turbojet engine (cruise), solid composite ship launch booster
<b>Guidance:</b>	Terminal: Active radar Midcourse: Three-axis integrated digital computer/strapdown attitude reference system
<b>Warhead:</b>	High explosive blast type

### Initial Launch Platforms

#### Ships

DE-1052 Class Destroyer Escorts  
DD-963 Class Destroyers  
DDG Class Guided Missile Destroyers  
DLG Class Guided Missile Destroyer Leaders  
PF Patrol Frigates  
PHM Patrol Hydrofoils  
SSN Attack Submarines

#### Aircraft

P-3 ASW Patrol  
S-3 ASW Patrol  
A-6 Attack Aircraft  
A-7 Attack Aircraft

