



HYDRA-70

2.75-inch (70mm) family of rockets



General Dynamics Ordnance and Tactical Systems is the system integrator of the 2.75-inch (70mm) Hydra-70 family of rockets. These rockets include unitary and cargo warheads for use against point and area targets, providing the user a lethal and lightweight weapon system with multi-mission capability. The Hydra-70 rockets produced by General Dynamics are universally compatible with the Advanced Precision Kill System (APKWS).

The rocket system contains three components: the MK66 MOD 4 rocket motor, one of the nine warheads, and the associated point-detonating, or remote-set fuze(s). When these components are combined, they provide a tailor-made solution to the warfighter's situational requirements.

Warheads are available in training, unitary or cargo configurations (see reverse). Fitted to the MK66 MOD 4 motor, these warheads provide low-cost munitions capable of area suppression and defeating threats at extended ranges, as well as providing battlefield obscuration, illumination and marking.

Hydra-70 provides the Army with affordable firepower matched to the mission for effective engagements and area suppression of a long list of lower-value targets on the battlefield.

General Dynamics has produced more than five million Hydra-70 rockets since 1996 in support of the Army's Joint Attack Munition Systems Project Office.

Hydra-70 fires from the existing seven and 19-tube launchers and can be mounted on most rotary and fixed-wing aircraft, including: Apache, Cobra and F-16.

GENERAL DYNAMICS
Ordnance and Tactical Systems

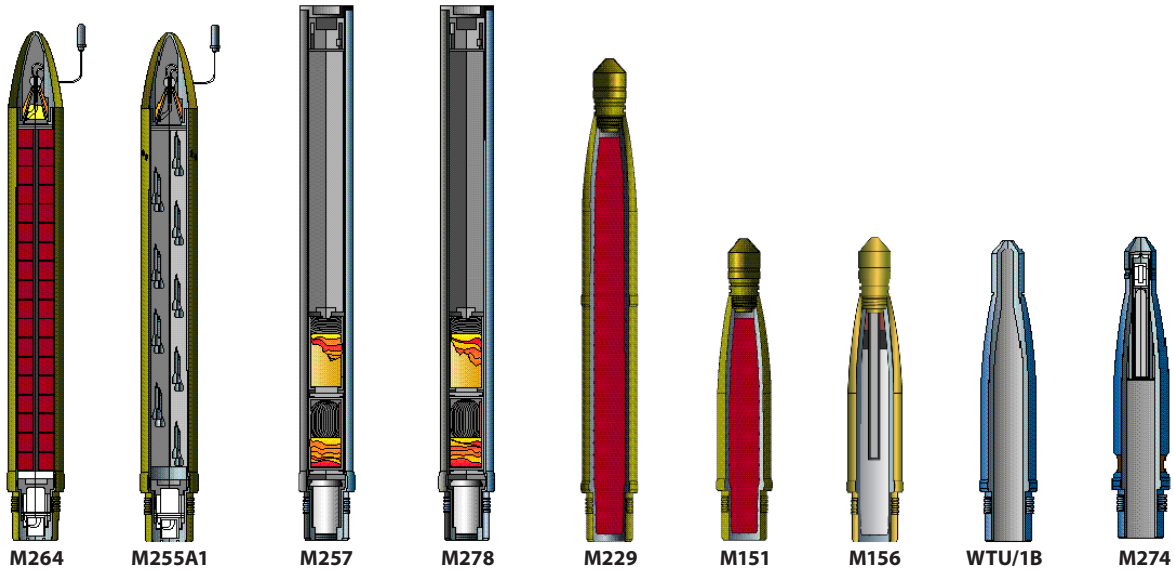


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TECHNICAL SPECIFICATIONS

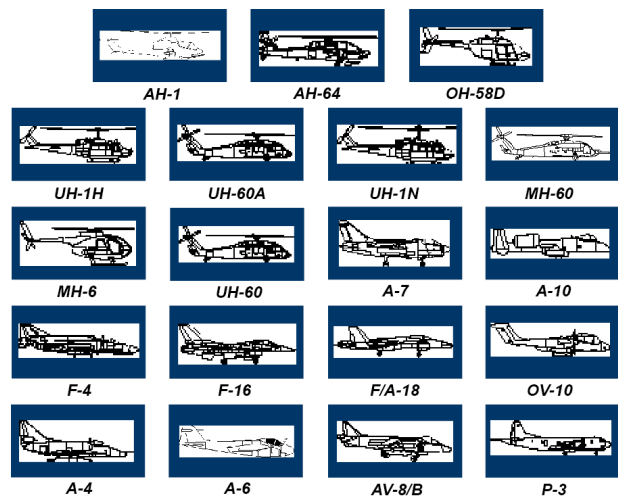


WARHEADS

- M264 smoke (RP)
 - Length26.9 inches (68.3 cm)
 - Weight8.6 pounds (3.9 kg)
- M255A1 flechette
 - Length26.9 inches (68.3 cm)
 - Weight 14 pounds (6.4 kg)
- M257/M278 illuminating flare
 - Length29.1 inches (73.9 cm)
 - Weight 11 pounds (5.0 kg)
- M278 infrared flare
 - Length29.1 inches (73.9 cm)
 - Weight 11 pounds (5.0 kg)
- M229 high explosive (17 pound)
 - Length (with fuze)26 inches (66 cm)
 - Weight 17 pounds (7.7 kg)
- M151 high explosive (10 pound)
 - Length (with fuze)16.2 inches (41.2 cm)
 - Weight9.3 pounds (4.2 kg)
- M156 (WP)
 - Length (with fuze)16.2 inches (41.2 cm)
 - Weight9.65 pounds (4.38 kg)
- WTU-1/B (practice)
 - Length16.2 inches (41.2 cm)
 - Weight9.3 pounds (4.2 kg)
- M274 (practice) smoke signature
 - Length (with fuze)16.2 inches (41.2 cm)
 - Weight9.3 pounds (4.2 kg)

MK66 MOD 4 MOTOR

- Length41.7 inches (106 cm)
- Weight 13.6 pounds (6.2 kg)
- Diameter2.75 inches (70mm)
- Temperature limits
 - Operational-50° to 150°F (-46° to 66°C)
 - Storage-65° to 160°F (-54° to 71°C)
- Average thrust (77°F/25°C) 1,415 pounds (629 daN)
- Total impulse (77°F/25°C) 1,515 pounds/second (674 daNs)
- Time of burning (77°F/25°C) 1.07 seconds



Hydra-70 User Aircraft

GENERAL DYNAMICS
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