



# HYDRA-70

2.75-inch  
(70mm) Family  
of Rockets

MISSILES AND ROCKETS

ROCKET SYSTEMS

**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.

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## Warheads

### M264 Smoke (RP)

<i>Length</i>	26.9 inches (68.3 cm)
<i>Weight</i>	8.6 pounds (3.9 kg)

### M255A1 Flechette

<i>Length</i>	26.9 inches (68.3 cm)
<i>Weight</i>	14 pounds (6.4 kg)

### M257/M278 Illuminating Flare

<i>Length</i>	29.1 inches (73.9 cm)
<i>Weight</i>	11 pounds (5.0 kg)

### M278 Infrared Flare

<i>Length</i>	29.1 inches (73.9 cm)
<i>Weight</i>	11 pounds (5.0 kg)

### M229 High Explosive

<i>Length</i>	26 inches (66 cm) (with fuze)
<i>Weight</i>	17 pounds (7.7 kg)

### M151 High Explosive

<i>Length</i>	16.2 inches (41.2 cm) (with fuze)
<i>Weight</i>	9.3 pounds (4.2 kg)

### M156 (WP)

<i>Length</i>	16.2 inches (41.2 cm) (with fuze)
<i>Weight</i>	9.65 pounds (4.38 kg)

### WTU-1/B (practice)

<i>Length</i>	16.2 inches (41.2 cm)
<i>Weight</i>	9.3 pounds (4.2 kg)

### M274 (practice) Smoke Signature

<i>Length</i>	16.2 inches (41.2 cm) (with fuze)
<i>Weight</i>	9.3 pounds (4.2 kg)

## MK66 MOD 4 Motor

<b>Length</b>	41.7 inches (106 cm)
<b>Weight</b>	13.6 pounds (6.2 kg)
<b>Diameter</b>	2.75 inches (70 mm)

### Temperature Limits

<i>Operational</i>	-50° to 150°F (-46° to 66°C)
<i>Storage</i>	-65° to 160°F (-54° to 71°C)

<i>Average Thrust</i>	(77°F/25°C)	1,415 pounds (629 daN)
<i>Total Impulse</i>	(77°F/25°C)	1,515 pounds/second (674 daNs)
<i>Time of Burning</i>	(77°F/25°C)	1.07 seconds