

HYDRA 70

2.75-inch (70mm) Family of Rockets

MISSILE SUBSYSTEMS | 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 Warfighter with a lethal and lightweight system that increases stowed kills and battlefield effects. The Hydra 70 rockets produced by General Dynamics are universally compatible with the Advanced Precision Kill Weapon System (APKWS).

The rocket system contains three components: the MK66 MOD 4 rocket motor, one of nine warheads, and the associated point-detonating, or remote-set fuze. 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 page 2). 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 flexible and economical lethality that is tailorable to the mission for point engagements and suppression of light armored and unarmored High Value Targets at range.

General Dynamics has produced more than eight million Hydra 70 rockets since 1996, in support of the Army's Tactical Aviation and Ground Munitions (TAGM) 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

M151 High Explosive

Length	16.2in (41.2cm)
Weight	9.3lbs (4.2kg)

M229 High Explosive

Length	26in (66cm)
Weight	17lbs (7.7kg)

M255A1 Flechette

Length	26.9in (68.3cm)
Weight	14lbs (6.4kg)

M264 Smoke (RP)

Length	26.9in (68.3cm)
Weight	8.6lbs (3.9kg)

M156 (WP)

Length	16.2in (41.2cm)
Weight	9.65lbs (4.38kg)

M257 Overt Illuminating Flare

Length	29.1in (73.9cm)
Weight	11lbs (5kg)

M278 Infrared Illuminating Flare

Length	29.1in (73.9cm)
Weight	11lbs (5kg)

WTU-1/B (Practice)

Length	16.2in (41.2cm)
Weight	9.3lbs (4.2kg)

M274 (Practice) Smoke Signature

Length	16.2in (41.2cm)
Weight	9.3lbs (4.2kg)

MK66 MOD 4 Motor

Length	41.7in (106cm)
Weight	13.6lbs (6.2kg)
Diameter	2.75in (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
Total Impulse	(77°F/25°C)	1,515 pounds/second
Time of Burning	(77°F/25°C)	1.07 seconds

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