



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