# Hydra-70

# 2.75-inch (70mm) family of rockets



General Dynamics Armament and Technical Products 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 rocket system contains three components: the MK66 MOD 4 rocket motor, one of nine warheads, and the associated point-detonating, omni-directional, 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 either 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 battle-field. The Government/Industry team is planning subsequent block enhancements to overall performance (i.e., lethality, safety, range, precision and IM) of the entire family of rockets as funding and other technologies for warhead, fuze, propulsion and launcher improvements are made available.

GDATP has produced more than four 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.



### TECHNICAL SPECIFICATIONS

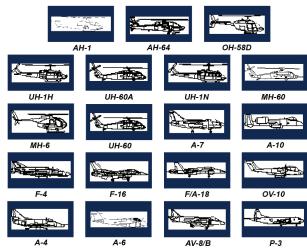


#### Warheads

M264 smoke (RP)	
Length	26.9 inches (68.3 cm)
Weight	8.6 pounds (3.9 kg)
M255A1 flechette	
Length	26.9 inches (68.3 cm)
Weight	14.0 pounds (6.4 kg)
M257/M278 illuminating flare	
Length	29.1 inches (73.9 cm)
Weight	11.0 pounds (5.0 kg)
M278 infrared flare	
Length	
Weight	11.0 pounds (5.0 kg)
M229 high explosive (17 pou	ınd)
Length (with fuze)	
Weight	17.0 pounds (7.7 kg)
M151 high explosive (10 pou	ınd)
Length (with fuze)	
Weight	9.3 pounds (4.2 kg)
M156 (WP)	
Length (with fuze)	
Weight	9.65 pounds (4.38 kg)
WTU-1/B (practice)	
Length	
Weight	9.3 pounds (4.2 kg)
M274 (practice) smoke signa	iture
Length (with fuze)	
Weight	9.3 pounds (4.2 kg)

#### MK66 MOD 4 Motor

Length
Weight
Diameter 2.75 inches (70mm)
Temperature limits
Operational50° to 150°F (-46° to 66°C)
Storage
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**

Armament and Technical Products -