



FANG Armament Platform

Armament Mount for UH-1 Series Aircraft





FANG on UH-1 (77 gal fuel pod, 7-shot rocket pod, .50 cal machine gun)

AT A GLANCE

- Provides six store stations (four fixed-forward and two pintle)
- Doubles the weapons payload
- Adds HELLFIRE capability
- Compatible with large fuel pods
- Requires ZERO aircraft modifications
- Preserves compatibility with the existing DAS pintle mounted weapons

Recent upgrades to the UH-1 increased the aircraft's payload capacity. However, the DAS system is not designed to leverage this new capability due to the design of the single 45 degree mounted bomb release unit. **CFD International**, in collaboration with Bell Helicopter, has designed **FANG** - a modern armament system that is compatible with a broad array of weapons, increasing the total weapon payload to 2,100 lbs per aircraft - up from 1,000 lbs with the legacy DAS mount. This is accomplished with zero aircraft modifications and reusing many legacy DAS mount components including the BRU-59 bomb release units, thus minimizing upgrade costs. The system is compatible with Alkan bomb release units, and retains compatibility with the DAS pintle mounted weapons. The **FANG Armament Platform** provides unparalleled mission flexibility at minimal weight.

Six Store Stations

FANG has a total of six stores – two crew-served store stations, and up to four fixed-forward store stations. The bomb rack adapters attach to FANG via a common lug interface. Adapters for the BRU-59 bomb release unit and the Alkan bomb rack are both available.

Detachable Outboard Store Station

The outboard store station is attached to the inboard station via precision-machined lugs and our quick-release expansion pins. These pins ensure a zero-clearance fit between the components, thus guaranteeing boresight retention and pinpoint accuracy of the attached weapon. CFD's modular approach allows for **maximum firepower when it is needed**, and **instant weight savings when it is not**.



Six Store Stations (front view)



FANG on UH-1 (fuel pod, rocket pod, 7.62 mm Gatling gun)

2,100 lb Payload Capacity

The legacy DAS is rated for only 500 lbs per side payload. CFD and Bell have shown through detailed finite element analysis and simulation that FANG can support a 1,050 lbs per side for all load conditions with satisfactory margin of safety.

Extended Range

In an analysis using the 19-shot rocket pods, the aircraft loiter time is predicted to *increase* by **1.5 hours** with the 75 gallon external fuel pods. Lower drag weapons will result in an even longer loiter time.

HELLFIRE Capability

The addition of vertical bomb racks allows HELLFIRE missiles to be fired from the M310 launcher. This launcher is compatible with DAGR guided smart rockets as well. This capability is extended to any other smart weapon such as APKWS with the appropriate launcher. CFD offers a separate Armament Management System package which is required to launch smart weapons.

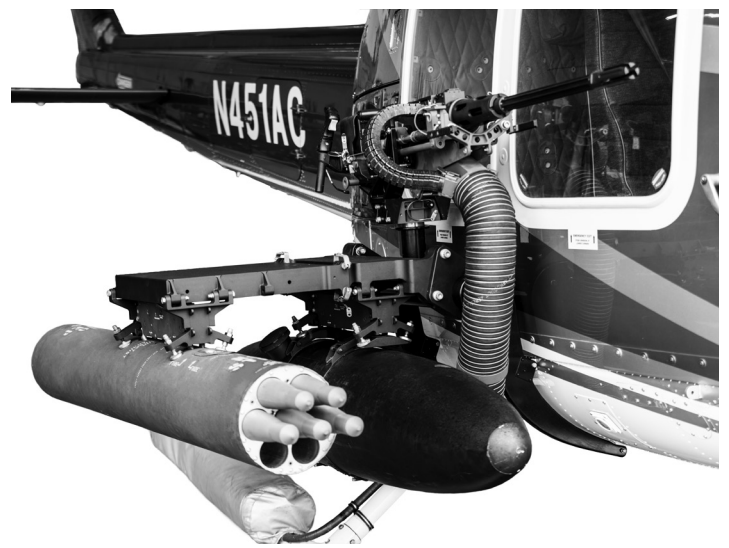
No Aircraft Mods Required

The entire FANG system attaches to the existing four aircraft lugs. No structural modifications are required.

Other Benefits

The system requires **nearly zero maintenance**, it is **damage tolerant**, and adheres to **MIL-STD-810G** and **MIL-STD-461F**.

CFD provides the U.S. Government and foreign military allies with precision-engineered weapon system solutions emphasizing accuracy, reliability, durability and light weight. Founded in 1985 by the late Paul Sanderson - inventor of the OMS, the company's focus is serving warfighters by providing premium weapon systems for helicopters. With over 30 years of experience, and holding more than 37 patents, CFD International specializes in the design and manufacture of the finest weapons/sensor mounting solutions, ammunition handling and fire-control armament management systems available today. We are the world leader in providing a turn-key, integrated solution customized to your specific needs and requirements.

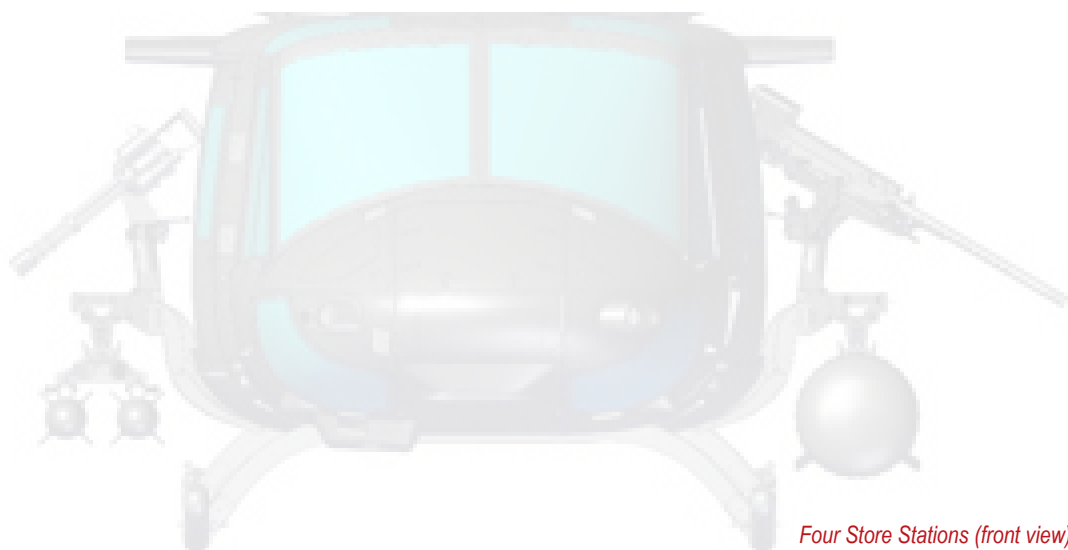


FANG on UH-1 (fuel pod, rocket pod, .50 cal Machine gun)

FANG Armament Platform - Compatible Weapons

GUNS	ROCKETS/MISSILES	FUEL PODS
• M2/M3/M3D/M3M/M3P/GAU-18/GAU-21 (.50-cal machine gun)	• M260/LAU-68 (7-shot rocket pod)	• Robertson 75 gallon (External auxiliary fuel pod)
• GAU-19 (.50-cal Gatling gun)	• M261/LAU-61 (19-shot rocket pod)	• Robertson 116 gallon (External auxiliary fuel pod)
• M134/GAU-2 (7.62mm Gatling gun)	• DAGR (2.75-inch guided missile)	• Dudlik 77 gallon (External auxiliary fuel pod)
• MK 19 (40mm grenade launcher)	• TALON (2.75-inch laser guided rocket)	
• NC-621 (.20mm cannon)	• M310 (missile launcher, 2-rail) • AGM-114 HELLFIRE (missile)	
	• Viper Strike (guided glide bomb)	
	• Griffin (laser guided bomb)	
	• AIM-92 Stinger (missile)	
	• AIM-9 Sidewinder (missile)	

FANG is compatible with all of the weapons and attachments listed. All weapons and combinations meet mil-spec jettison and ground clearance requirements per MIL-STD-1289.



Four Store Stations (front view)

For more information on FANG and to discover other CFD products and services visit us on our website at www.cfdintl.com

Or see us on You Tube: www.youtube.com/user/CFDIntl

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