PGMS Armament Platform

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SSM Sponson Sensor Mount

CFD International’s Sponson Sensor Mount (SSM) is engineered and built to meet the requirements of various government agencies, both military and civilian. This patented, combat-proven system provides a stable platform for mounting a wide range of sensors.

CFD’s SSM maintains crucial field of regard, improves hard-landing survivability, provides unsurpassed stability and is significantly less expensive than alternative nose mount installations. Mission kit design of the SSM means easy on/off capability for use where and when it is most needed.

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CFD International 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 40 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 see the world leader in providing a turn-key, integrated solution customized to your specific needs and requirements.

For more information on CFD products and services visit us on our website at cfdintl.com

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

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OMS Armament Platform

Features & Benefits

OMS Armament Platform

Crafted with military aerospace-grade workmanship, the FANG modern armament system provides six store stations, adds precision guided munition capability such as HELIFIRE and is compatible with large fuel pods. The FANG system increases store station payload to 2,000 lbs per aircraft (up from 500 lbs per side with the legacy DAS mount). No aircraft modifications are required to install the FANG mount structure. The system can be rapidly scaled down to four (4) store stations without tools, thus shedding un-useful load. It is compatible with both BRU-50 and Alkan bomb release units, and preserves compatibility with the existing DAS pintle mounted gun cradles, thus lowering total upgrade cost. FANG on UH-1 provides unparalleled mission capability and flexibility.

OMS 2.0

CFD International and Bell Helicopter partnered to create a solution to add weapon capabilities to the H-1 such as HELIFIRE and other smart weapons. The result is FANG, a system that is compatible with a broad array of weapons and increases the total weapon payload to 1,000 lbs per side without aircraft modifications.

FANG has been analyzed by both CFD and Bell stress engineers to show positive safety margins throughout the flight profile.

CFD’s manufacturing tolerances are extraordinarily tight to ensure perfect, no-slop fitment while maintaining component interchangeability. These extra efforts pay off in accuracy and boreaxis retention.

Features & Benefits

Designed with aerospace grade workmanship, the OMS supports 30 times its own weight, giving the specity for more fuel and firepower. Constructed from materials with high specific stiffness, armament stability is increased to minimize dispersion. With up to six store locations, you can equip the aircraft with 7.62mm to 30mm machine guns, rockets and missiles. The outboard stores fold over on top of the center section, making the aircraft narrower for dense packing. The entire system can be rapidly installed, reconfigured or removed. High-capacity magazines allow up to 3,000 rounds of 7.62mm or 600 rounds of .50 cal ammunition per magazine. Additionally, one unique variant of the OMS provides troop carrying seats on both sides of the aircraft with each bench carrying up to three people or one litter. The newly designed OMS 2.0 is crafted of fiber composite and is 35% lighter than the legacy OMS without compromising stiffness.

Features & Benefits

EGMS Armament Platform

Built to meet the most stringent of US military requirements, CFD International’s Ordnance Mounting System (OMS) has been providing US troops protection in combat since 1987. Originally developed for the U.S. Army’s 160th Special Operations Aviation Regiment (SOAR), MD-500 “Little Bird” fleet, this patented, combat-proven system is now available in several configurations for greater versatility.

CFD’s innovative designs are intended to deliver maximum flexibility. Modularity of the OMS—combined with high-capacity ammunition magazines—allows for a variety of weapon configurations to suit a multitude of mission requirements.

With EGMS, the tactical low profile—installed outside the body of the aircraft—allows the pilot to achieve the most stringent of US military requirements, CFD International’s Ordnance Mounting System (OMS) has been providing US troops protection in combat since 1987. Originally developed for the U.S. Army’s 160th Special Operations Aviation Regiment (SOAR), MD-500 “Little Bird” fleet, this patented, combat-proven system is now available in several configurations for greater versatility.

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EGMS is compatible with our quick-release External Store System (ESS) for rockets, APKWS, TALON, HELIFIRE, fixed-forward large caliber weapons or most anything that can be mounted on a standard 14-inch NATO bomb rack.
FANG Armament Platform

CFD International and Bell Helicopter partnered to create a solution to add weapon capabilities to the H-1 such as HELLFIRE and other smart weapons. The result is FANG, a system that is compatible with a broad array of weapons and increases the total weapon payload to 1,000 lbs per side without aircraft modifications.

FANG has been analyzed by both CFD and Bell stress engineers to show positive safety margins throughout the flight profile. FANG has been manufactured for Bell 407 and Alkan bomb release units, and preserves compatibility with the existing DAS pintle mounted gun cradles, thus lowering total upgrade cost. FANG on UH-1 provides unparalleled mission capability and flexibility.

Based on three years of flight testing, FANG is designed to be extremely robust and features an innovative module design. The modular design allows for the addition of weapons at any point in the flight profile and does not require aircraft modifications. The system can be rapidly scaled down to four (4) store stations without aircraft modifications.

FANG features six store stations that can carry a variety of weapons configurations, including HELLFIRE and other smart weapons. The system increases store station payload to 2,000 lbs per aircraft (up from 500 lbs per side with the legacy DAS mount). No aircraft modifications are required to install FANG, and the system is designed to be compatible with both BRU-50 and Alkan bomb release units.

FANG is designed to be easy to install and maintain, and it features an innovative modular design that allows for the addition of weapons at any point in the flight profile. The system can be rapidly scaled down to four (4) store stations without aircraft modifications.

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OMS Armament Platform

Crafted with military aerospace-grade workmanship, the FANG modern armament system provides six store stations, adds precision guided munition capability such as HELLFIRE, and is compatible with large fuel pods. The FANG system increases store station payload to 2,000 lbs per aircraft (up from 500 lbs per side with the legacy DAS mount). No aircraft modifications are required to install FANG, and the system is designed to be compatible with both BRU-50 and Alkan bomb release units.

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EGMS Armament Platform

CFD’s External Gun Mount System (EGMS) has assisted U.S. Air Force CSAR Pave Hawk personnel to save lives since 2003. The system is designed to yield low dispersion and get rounds on target. Reliability has continuously improved through years of field trials and design iterations. EGMS requires minimal maintenance.

EGMS is compatible with our quick-release External Store System (ESS) for spikes, APDS, TALON, HELLFIRE, fixed-forward large caliber weapons or most anything that can be mounted on a standard 14-inch NATO bomb rack.

Features & Benefits

Manufactured with aerospace grade workmanship, OMS supports 30 times its own weight, giving the spotters for more fuel and firepower. Constructed from materials with high specific stiffness, armament stability is increased to minimize dispersion. With up to six store locations, you can equip the aircraft with 7.62mm to 30mm machine guns, rockets and missiles. The overall stores fall over on top of the center section, making the aircraft narrower for dense packing. The entire system can be rapidly installed, reconfigured or removed. High-capacity magazines allow up to 3,000 rounds of 7.62mm or 600 rounds of .50 cal ammunition per magazine. Additionally, one unique variant of the OMS provides troop carrying seats on both sides of the aircraft with each bench carrying up to three people or one litter. The newly designed OMS 2.0 is crafted of fiber composite and is 35% lighter than the legacy OMS without compromising stiffness.

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CFD’s innovative designs are intended to deliver maximum flexibility. Modularity of the OMS—combined with high-capacity ammunition magazines—allows for a variety of weapon configurations to suit the multitude of mission requirements.

With EGMS, the tactical tow plate—installed outside the body of the aircraft—allows the ability to mount both armament magazines and armament external to the cabin. This design provides added safety in the event of a mishap, frees up valuable internal cabin space, and allows the crew chief/gunner windows to be closed in inclement conditions.

Rapid reconfiguring capabilities provide quick change from 50 cal to 7.62mm and back again, giving the mission commander maximum flexibility. EGMS with the fixed-forward fire option allows the weapon to be fired both by the pilot or crew-served by a gunner. With 50 cal weapon capability, EGMS provides for a greatly increased weapon engagement zone (WEZ), thereby eliminating the WEZ gap while simultaneously increasing lethal reach well beyond 1,500 meters (up to 3x minigun range) providing a defensive capability against light armored vehicles, weapons emplacements and structures. High-Capacity Magazines up to 6,000 rounds of 7.62mm or 1,200 rounds of .50 cal ammunition are also available. An optional 14-inch NATO Bomb Rack Compatible Store provides additional firepower without sacrificing significant field-of-fire as with an auxiliary armament wing.
FANG Armament Platform

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FANG on UH-1 (47 gal fuel pod, 7.62 mm Gatling gun)

Features & Benefits
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EGMS on MD500/530/H-6 Little Bird

Features & Benefits
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OMS on HH-60M Black Hawk

EGMS on HH-60P Black Hawk

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OMS to Bomb
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