

# **MCAS-UH - MISSION CONFIGURABLE AIRCRAFT SYSTEM**



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## MISSION CONFIGURABLE AIRCRAFT SYSTEM (MCAS-UH)

The Dillon Aero Mission Configurable Aircraft System (MCAS-UH) offers numerous configurations allowing for any combination of both Fixed Forward, outboard weapons/storage locations, and internally mounted Crew-Served Weapons without any aircraft modifications. Both internal and external weapons stations can be mounted on the cross-cabin floor plate system, which swings out of the way when not in use. Two 3,000- or 4,000-round magazines may be accommodated with the M134D gun systems.



Left side stations with Fixed Forward and Crew-Served M134D-H miniguns



Outboard station with an M260 rocket pod  
(also showing the mount with  
an M240/MAG58)



Kick-out weapon mount with an M134D  
retracted



Kick-out weapon mount with an M134D deployed



# MCAS - UH ARMAMENT OPTIONS

(4-WEAPON STATION CONFIGURATION)



GUNS: M134, 7.62mm; M240, 7.62mm; M60, 7.62mm; PKM, 7.62mm; GAU-19, .50 BMG (12.7 x 99)

ROCKETS: M260, 7 shot, 70mm / 2.75" FFAR; M261, 19 shot, 70mm / 2.75" FFAR; LWL12, 12 shot, 70mm / 2.75" FFAR

## FEATURES

- Internally mounted Crew-Served options
  - Kick-out mount supports any two of the M134D, M240/MAG58, PKM, or M60
  - Both Crew Served options may retract/fold/swing back into the cabin, allowing closure of cabin doors
- Externally mounted Fixed Forward options
  - Outboard stations (14" NATO bomb rack on each side)
  - Fixed Forward Hard Back M134D Weapon System
  - Rocket pod (7-, 12- or 19-tube)
  - Total outboard station capacity of 800 pounds
  - Outboard station arms may fold upwards, reducing overall aircraft footprint for storage or transport
  - Compatible with dual M134D Miniguns, dual M260 rocket pods, dual .50 caliber pods, or a combination of guns and rockets

The Dillon Aero MCAS-UH is currently in service with the U.S. and foreign militaries, as well as in government service branches.

**MISSION CONFIGURABLE AIRCRAFT SYSTEM (MCAS-UH)**  
**PART NUMBER: MCASUH1000**  
**NSN: PENDING**

# MCAS - UH SYSTEM WEIGHTS

## UH-1H Max 9500 lb (4309 kg)

Weight MCAS - UH		
2 X M134D-H Crew-Served Door Guns		
2 X M260 70mm Rocket Launchers		
	LB	KG
Empty	5,245.0	2,379.1
MFAS (mount only)	273.8	124.2
MCAS armed with: 2 x M134D-H Crew-Served door guns & 2 x M260 70mm Rocket Launchers	596.8	270.7
MCAS armed and loaded with: 6,000 rounds 7.62mm & 14 x H163 10# FFAR	1,292.8	586.4
Fuel	1,404.0	636.8
Weight No Crew (subtotal)	7,941.8	3,602.3
Crew x 4	1,000.0	453.6
Total (mount, guns, ammunition, and crew)	8,941.8	4,055.9
Available Payload	558.2	253.2

\*FOR SYSTEM WEIGHT ESTIMATION ONLY.

## Huey II Max 10500 lb (4763 kg)

Weight MCAS - UH		
2 X M134D-H Crew-Served Door Gun		
1 X Gun Pod Weapon System		
1 X M261 70mm Rocket Launcher		
	LB	KG
Empty (Estimated)	5,440.0	2,467.5
MCAS (mount only)	273.8	124.2
MCAS armed with: 2 x M134D-H Crew-Served door guns, 1 x Gun Pod Weapon System & 1 M261 70mm Rocket Launcher	768.1	348.5
MCAS armed and loaded with: 9,000 rounds 7.62mm & 19 x H163 10# FFAR	1,766.1	801.3
Fuel	1,404.0	636.8
Weight No Crew (subtotal)	8,610.1	3,905.6
Crew x 4	1,000.0	453.6
Total (mount, guns, ammunition, and crew)	9,610.1	4,359.2
Available Payload	889.9	403.8

\*FOR SYSTEM WEIGHT ESTIMATION ONLY.



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## **GUN POD WEAPON SYSTEM**



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DAP-6 Gun Pod

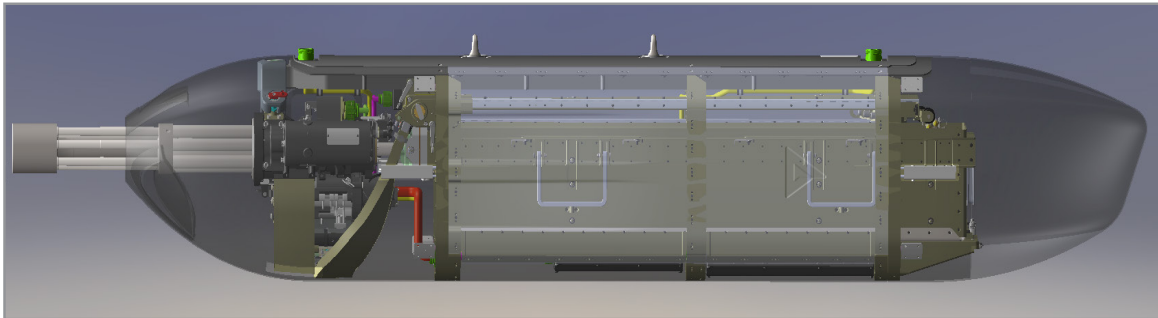


UH-1H equipped with MCAS-UH system



# GUN POD WEAPON SYSTEM

The Dillon Aero Gun Pod is a self-contained M134D-H weapon system that mounts to either fixed-wing or rotary-wing aircraft. It utilizes 7.62x51mm NATO ammunition with M13 links, with a 3,000-round magazine capacity and a rate of fire of 3,000 rounds per minute.



Internal component image of the Gun Pod Weapon System

## FEATURES

- Self-contained system
  - Dillon M134D-H Minigun
  - 3,000-round magazine capacity (all capacities are approximate due to individual loading techniques)
  - Rapidly removable nose and tail cone for easy gun or magazine access
  - Conformal Remote Gun Control Unit (RGCU)
  - Conformal dedicated 24 VDC Li-ion battery
  - Trickle charge capable from aircraft power
  - Quick Change Ammunition Magazine
  - Last Round Switch (approx. 100 rounds remaining) with pilot override interrupt
  - Integral bore sight adjustment +/- 2.5°
  - Mounts to 14" Standard NATO bomb rack
  - Optional Dillon hardback mount available to integrate the Gun Pod onto the standard Russian bomb rack used on Russian aircraft, Mi-24, Mi-17 etc.
  - Capable of 400 kt airspeed at sea level
- Weight
  - 162 lb (73.5 kg) empty
  - 350 lb (158.8 kg) estimated when loaded
- Dimensions
  - Height: 15.4" (39.1 cm)
  - Width: 13.1" (33.3 cm)
  - Length: 92.9" (236 cm) with long barrels
- Aircraft interface cabling
  - Master arm
  - Trigger
  - Last round switch override
  - Battery trickle charge
  - Optional indicator light signals

**GUN POD SYSTEM**  
**PART NUMBER: DAP-6**  
**NSN: PENDING**



UH-1 equipped with DAP-6 Gun Pod



DAP-6 Gun Pod

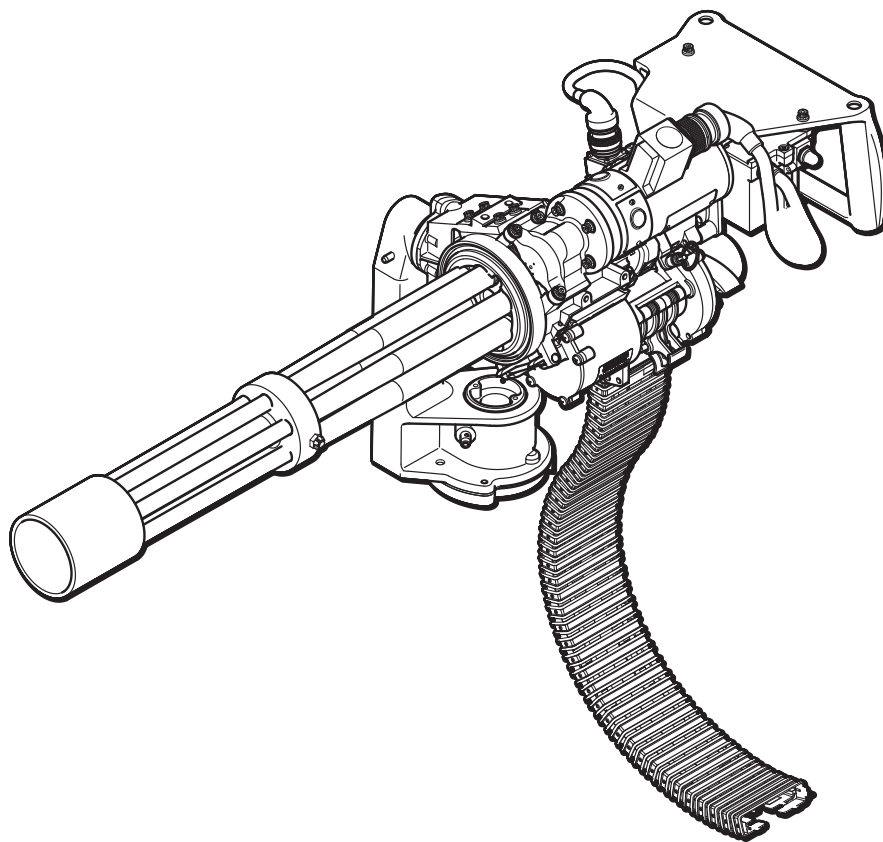


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# **M134D MINIGUN TECHNICAL AND OPERATING INFORMATION**



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# M134D MINIGUN TECHNICAL AND OPERATING INFORMATION

<b>Caliber:</b>	7.62X51mm	Feed Chute, 7 ft (2.13 m)	6.0 lb (2.7 kg)
		Feed System:	M13 Linked Ammunition Belt
<b>Maximum Effective Range:</b>	1200 m	<b>Firing Rate:</b>	Fixed, 3,000 RPM
		<b>Reliability/lifecycle:</b>	
<b>Length:</b> Crew Served	39.4 in (100.0 cm)	Barrel Life (average)	upto 100,000 rounds
Fixed Forward	34.3 in (87.1 cm)	Gun Life (average)	upto 1,500,000 rounds
<b>Width:</b> Crew Served	11.2 in (28.4 cm)	Bolt Assembly (set of 6)	250,000 rounds
Fixed Forward	7.1 in (18.0 cm)	Feeder Delinker	1,500,000 rounds
<b>Weight:</b>		<b>System Power Requirements:</b>	
Battery: M8565/16-1	14.6 lb (6.6 kg)	Continuous	28 VDC, 73 A
M8565/11-1	34.8 lb (15.8 kg)	<b>Operating Temperature</b>	
Lithium	8.0 - 8.5 lb (3.6 - 3.8 Kg)	Range	- 40°F to +160°F (- 40°C to +71°C)
<b>Total System Gun Weight:</b>		<b>Barrels:</b>	
Fixed Forward, Steel	58.2 lb (26.4 kg)	Length: Standard Barrel	22.0 in (55.9 cm)
Fixed Forward, Hybrid	51.3 lb (23.3 kg)	Heavy Barrel	22.0 in (55.9 cm)
Crew Served, Steel	64.2 lb (29.1 kg)	Short Barrel	18.0 in (45.7 cm)
Crew Served, Hybrid	56.3 lb (25.5 kg)	Weight: Standard Barrel	2.48 lb (1.1 kg)
Crew Served, Marinized	58.2 lb (26.4 kg)	Heavy Barrel	2.88 lb (1.3 kg)
<b>Ammunition Magazines:</b>		Short Barrel	1.86 lb (0.8 kg)
DAB3600, upto 3,000 rounds		Rotation of Barrel Cluster	Counterclockwise from breech end
Empty:	24.4 lb (11.1 kg)	Grooves	4
Full:	209.4 lb (95.0 kg)	Twist	Right Hand
DAB3000, upto 3,000 rounds		Length	20.0 in (50.8 cm)
Empty:	27.0 lb (12.2 kg)	One Turn In	10.0 in (25.4 cm)
Full:	212.0 lb (96.2 kg)	<b>Warranty</b>	
DAB4160, upto 4,000 rounds		2 years or 200,000 rounds	
Empty:	34.1 lb (15.5 kg)		
Full:	281.0 lb (127.5 kg)		



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## **PLATT MR550 SHIELDED RING MOUNT WITH M134D MINIGUN**



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# PLATT MR550 SHIELDED RING MOUNT WITH M134D MINIGUN

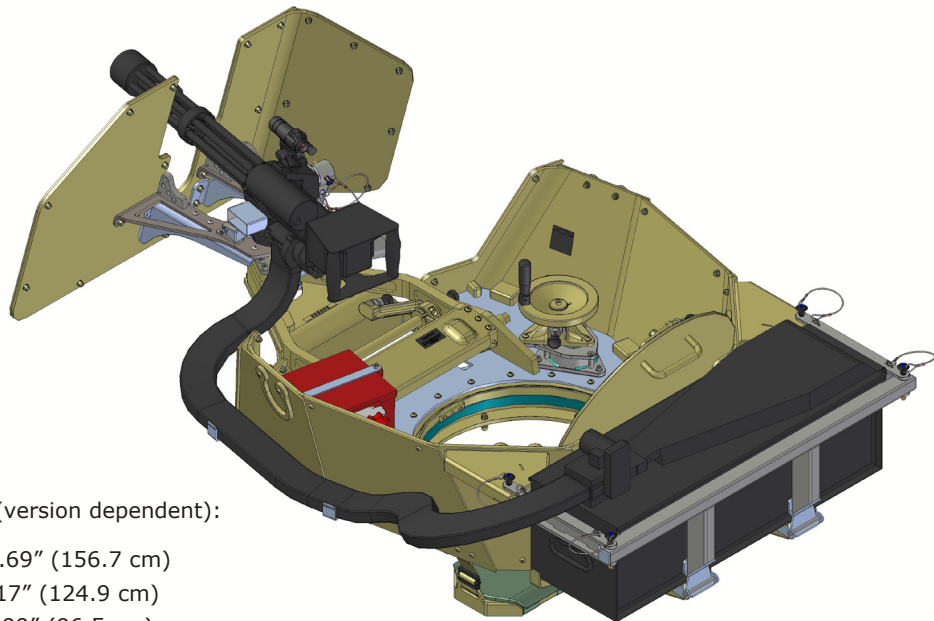
The Platt MR550 Shielded Ring Mount fitted with the M134D 7.62mm Minigun from Dillon Aero combines one of the most widely adopted manned weapon stations with the world's most devastating close-range fire support weapon system.

Initially developed for special operations units of the Finnish Army, the MR550 with Minigun is a fully integrated weapon station package which supports the M134D Minigun weapon, power supply, ammunition and ammunition feed subsystems.

Protection for the gunner from blast and kinetic threats is provided by side and front shields, with the weapon able to traverse 360° and elevate/depress to engage targets in a variety of terrain and complex environments. Baseline armor protection is STANAG 4569 Level 1 with protection packages available up to STANAG 4569 Level 3.

Lightweight, low profile and with the choice of manual or powered operation via Platt's fully integrated electric drive (eDrive), the MR550 with Minigun is also a cost-effective alternative to remote weapon systems for light and medium weight armored vehicles.

The MR550 Shielded Ring Mount is currently fitted to the Brazilian M113, British Army/Royal Marine BvS10 Viking, British Army FV432 Bulldog, British Army Warthog, US Army/Marine Corps RG-31, Swedish and Finnish RG-32M, and Netherlands Marine Corps BvS10 Viking.



## **SPECIFICATIONS** (version dependent):

**Overall Length:** 61.69" (156.7 cm)

**Overall Width:** 49.17" (124.9 cm)

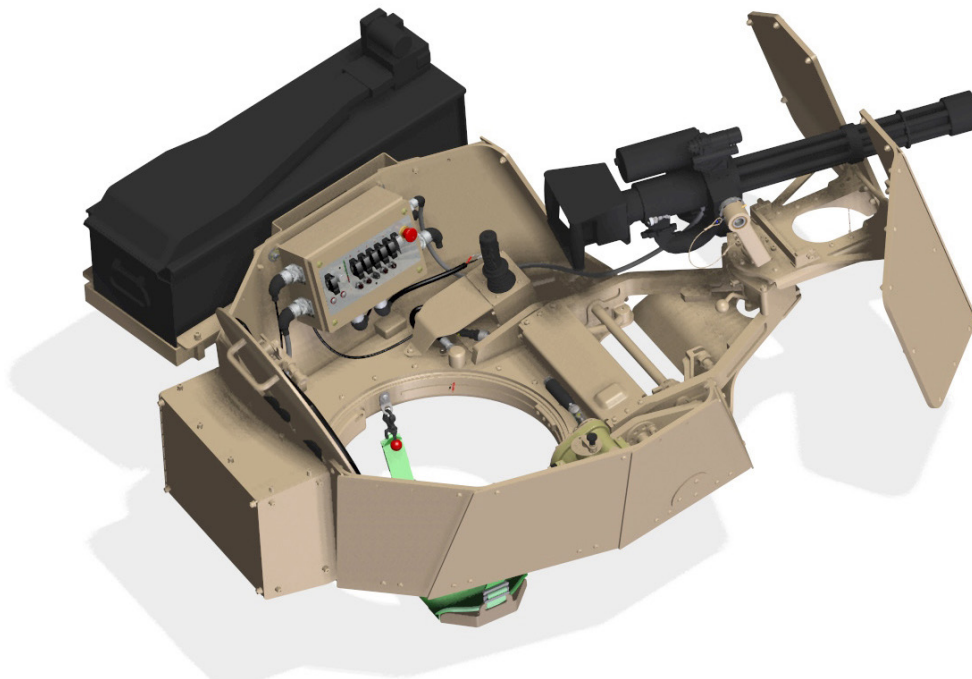
**Overall Height:** 37.99" (96.5 cm)

**Weight:** 551.16 lb (250 kg) at STANAG Level 1 (more for higher protection levels; minus weapon/ammunition)

**Traverse:** 360°

**Weapon Elevation/Depression:** +60°/-20°

**Ammunition Capacity:** 3,000 rounds



MR550 with eDrive option

## eDRIVE OPTION

The Platt eDrive kit provides battery-powered traverse for ease of weapon station operation on sloped or uneven terrain and reduced operator fatigue.

### FEATURES

- Powered by self-contained 24VDC battery pack
- Optional solar charging of batteries
- System Control Module (SCM) to manage eDrive power supply; with battery voltage status indicator
- Minimal electrical burden on vehicle (24VDC, 5A charging)
- Up to 2 hours continuous rotation on battery power alone
- System does not intrude on vehicle interior volume
- Joystick motion control with dead-man trigger and optional weapon firing
- Weapon station rotation speed: 6–10 rpm
- Rotation of weapon station on 30° inclines
- Manual operation override for redundancy
- Minimal operator training required
- Retrofit to existing ring mounts or supplied integrated into new-build ring mounts





MR550 with M134D on RG-32M



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## **M134D MINIGUN**



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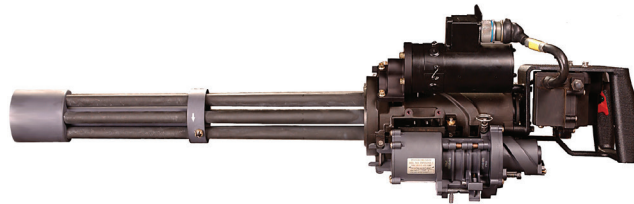


**SEA**

# M134D MINIGUN

**M134D HYBRID MINIGUN**  
**PART NUMBER: M134D-H**  
**NSN: 1005-01-581-7342**

**M134D MARINIZED MINIGUN**  
**PART NUMBER: M134D-M**  
**NSN: PENDING**



Dillon Aero M134D Minigun

The Dillon Aero M134D is one of the most reliable weapons in the world, given its capacity, simplicity in loading, and ease of maintenance. Designed for speed and accuracy, the M134D is a true force multiplier. The rapidity of shooting is of the utmost importance: only guns as rapid as the M134D can achieve the extreme shot density needed to suppress multiple targets in compressed periods of time. Additionally, the M134D is virtually free of recoil. When properly mounted, it moves slightly aft with the first shot, without any tendency to pitch or yaw. This stability is vital, in that it significantly assists in the aiming on and retention of a target. High rates of fire, extremely dense shot grouping, and high weapon stability demonstrate the perfect pairing of swiftness and precision.

- Chambered in 7.62x51mm NATO with available magazines in up to 4,000 round capacities
- Fixed firing rates of 3,000 rounds per minute (50 rounds per second)
- Averages an impressive 30,000 rounds between stoppages
- 1/50th of a second between each shot = four rounds fired from the M134D in the time it takes to fire a single round from an M240
- Four-fold reduction in the amount of time needed for gunner to see his hits and adjust aim, leading to an average of nine times more hits

When firing any weapon, especially machine guns, there is a risk of error due to movement in three key areas: platform, gun, and target. Movement error becomes more pronounced as the range to target increases. The M134D is able to counter movement error by increasing the number of shots per second, thus reducing the amount of time between each observed impact. The advantage of the M134D is that it is electronically driven, making it virtually recoilless. Furthermore, because of the combined effects of high rate of fire, extremely dense shot grouping, and high weapon stability, the M134D maximizes its effectiveness to a range of 1,200 meters. The multi-barrel design of the M134D ensures that each barrel only experiences a 500 round per minute rate of fire. This allows for repeated long bursts of fire and a barrel group life of approximately 100,000 rounds (depending on the firing schedule). In the unlikely event of a stoppage, the weapon can be serviced and made operational again in under a minute. A system life in excess of 1,500,000 rounds is an undisputable testament to the weapon's dependability.

The efficiency of the M134D reduces the number of weapons to cover a target area. Fewer guns mean fewer personnel to man them, which in turn requires fewer supporting platforms. This translates into significant cost savings. As such, it's no surprise that the M134D or component systems are currently employed by all branches of the U.S. military and in more than 30 countries. On land, the M134D is presently deployed worldwide for convoy escort, border patrol, and VIP protection. In the naval role, Miniguns are utilized in force protection on the U.S. and foreign blue water and riverine fleets, as well as fire support weapons on Special Operations boats. Notably, the M134D is most predominantly used in helicopters, and is now customizable to most military and commercial helicopters. As a modular system, it is easily adaptable to many existing platforms, and performs equally well in the Fixed Forward Fire or Crew-Served modes.

Dillon Aero currently delivers new production M134D Miniguns, and offers Modernization Kits for older generation General Electric GAU-2B/M134 Miniguns.



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## **EC725/H225M, AS332 AND AS532 GUN MOUNT ASSEMBLY**



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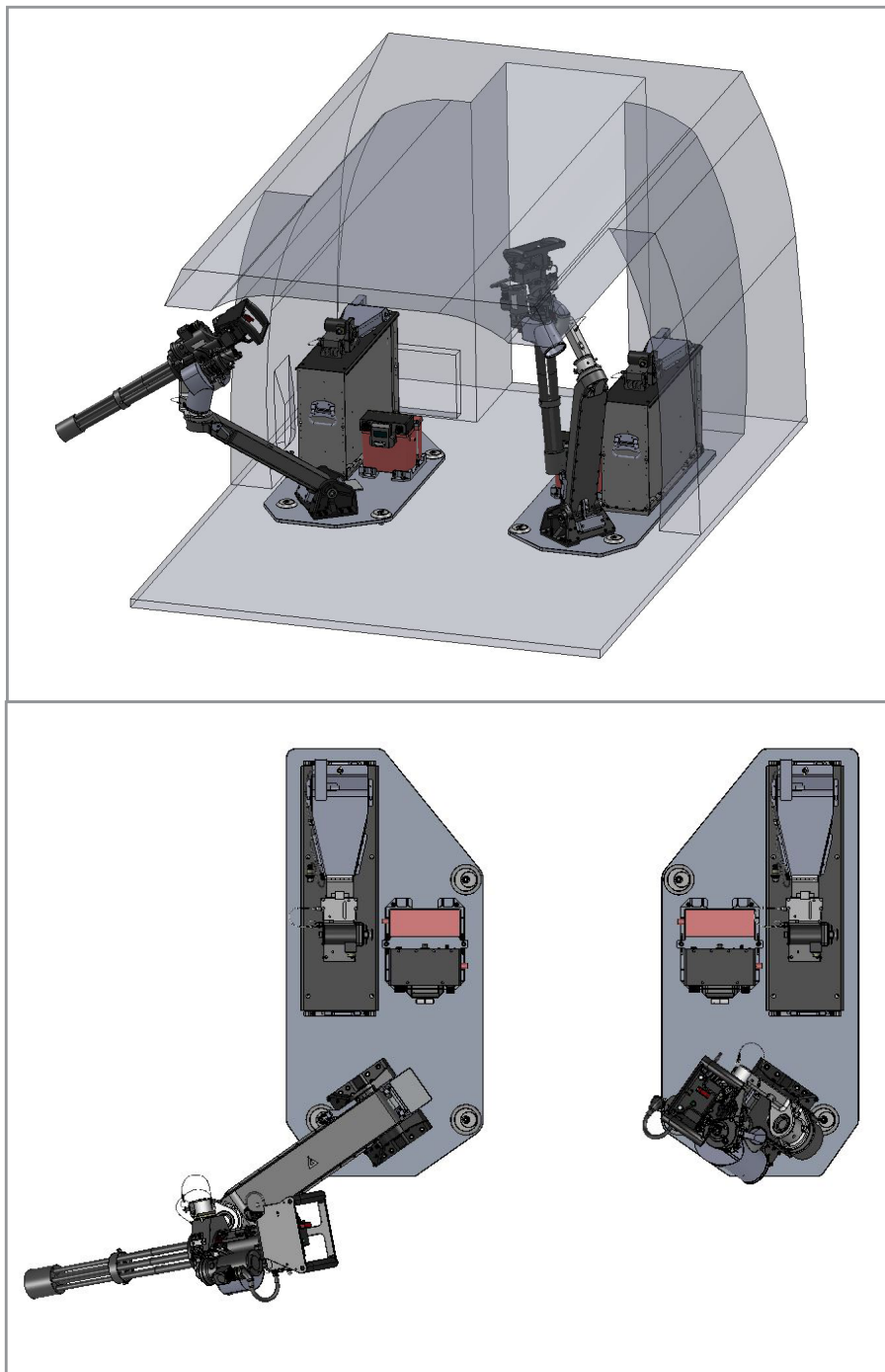


**AIR**



**SEA**

**AS332/EC725/H225M  
MOUNT ASSEMBLY  
PART NUMBER: DGMT8600  
NSN: PENDING**



AS332 right side gun deployed and left side stowed

## EC725/H225M, AS332 AND AS532 GUN MOUNT ASSEMBLY

The EC725/H225M, AS332, and AS532 Gun Mount Assembly attaches to the standard floor hard points with no structural aircraft modifications required. Installation is designed for left and right door applications while still allowing easy access through the doorway. The system incorporates a kick-out arm assembly to fire, then stows when not in use allowing the doors to close. The ammunition for the M134D is supplied by a 3,000-round ammunition magazine and feed system.

### FEATURES

- Total field of fire approximately 110° (Left and right azimuths based on aircraft configuration)
- Elevation 1.5° Depression 55°
- 24 VDC battery
- Integrated battery status indicator
- Integrated stow/lock of the gun in azimuth and elevation
- Gas assist stowage of arm (reduces the amount of weight the operator has to pull into the aircraft)

### WEIGHT:

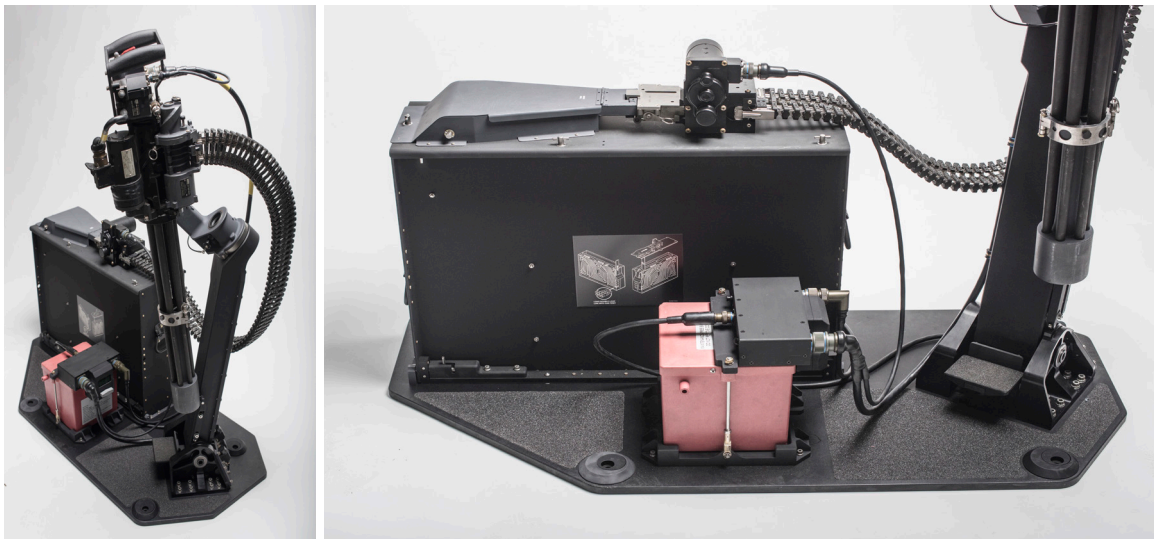
- Total system weight loaded with 3,000 rounds approximately 430 lb (195 kg)

### DIMENSIONS:

- Base plate 22.56" (57.3 cm) X 48.97" (124.4 cm)

### AIRCRAFT INTERFACE:

- Pilot control box
- 24 VDC trickle charge



EC725 Gun Mount Assembly (different views)





AS532 with M134D



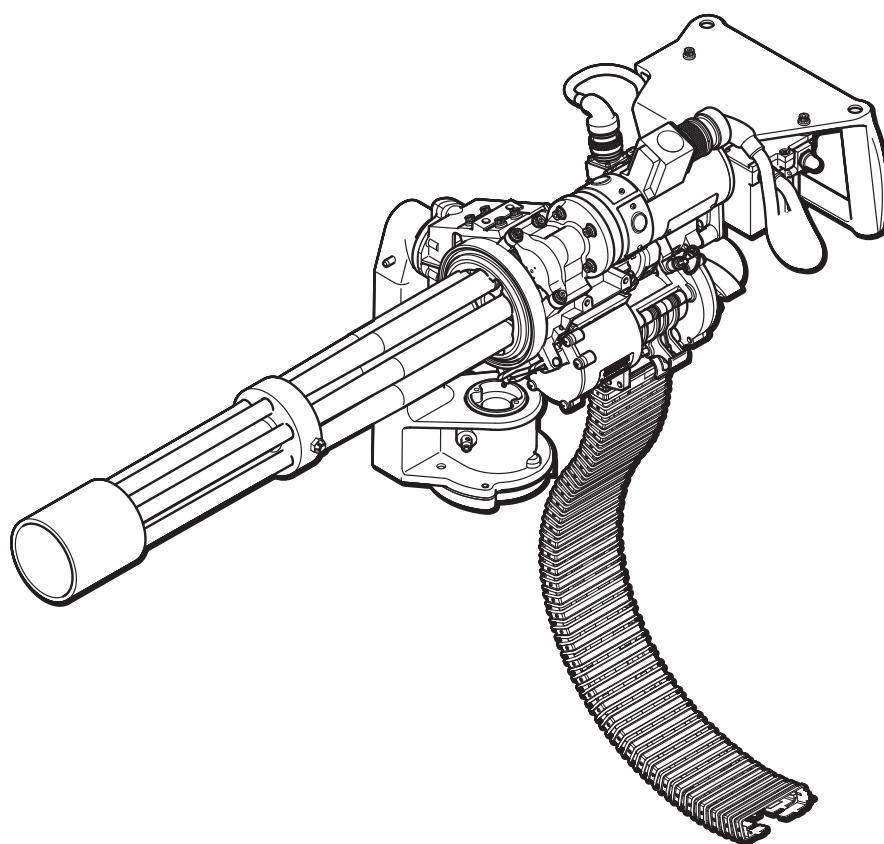
AS332 with M134D



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## **DILLON AERO SYSTEM WEIGHTS**



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## DILLON AERO SYSTEM WEIGHTS

Equipment		Empty (Mount, WITH guns, NO ammunition)		Full (Mount, WITH guns, WITH ammunition)	
		lb	kg	lb	kg
AIR					
MCAS-UH	<b>*MCAS-UH (4-station)</b> (Guns: 2 M134D-H, 2 M240 (MAG58), 2 magazines) (Ammunition: 7,000 rds x 7.62mm)	678.4	307.7	1114.7	505.6
	<b>*MCAS-UH (4-station)</b> (2 M134D-H, 2 M260 Rocket Launchers, 2 magazines) (Ammunition: 6,000 rds x 7.62mm, 14 rds x H163 10# FFAR)	596.8	270.7	1292.8	586.4
	<b>*MCAS-UH (4-station)</b> (2 M134D-H, 2 DAP-6 M134 Gun Pods (HB), 2 magazines) (Ammunition: 12,000 rds x 7.62mm)	845.8	383.6	1593.7	722.9
	<b>*MCAS-UH (4-station)</b> (2 M134D-H, 2 magazines, 1 DAP-6 M134 Gun Pod (HB), 1 M261) (Ammunition: 9,000 rds x 7.62mm, 12 rds x H163 10# FFAR)	768.1	348.4	1766.1	801.1
MD530	<b>*MD530 with Short Tube Mount</b> (Guns: 2 M134D-H, 2 magazines) (Ammunition: 6,000 rds x 7.62mm)	260.7	118.3	634.7	287.9
	<b>*MD530 with Long Tube Mount</b> (Guns: 2 M134D-H, 2 magazines) (Ammunition: 6,000 rds x 7.62mm)	460.7	209.0	834.7	378.6
	<b>*MD530 with Long Tube Mount</b> (Guns: 1 M134D-H, 1 M260 Rocket Launcher) (Ammunition: 3,000 rds x 7.62mm, 7 rds x M151 HE rkts)	296.8	134.6	672.7	305.2
Fennec	<b>*Fennec System</b> (Guns: 2 M134D-H, 2 magazines) (Ammunition: 6,000 rds x 7.62mm)	210.0	95.2	693.9	314.8
	<b>*Fennec System</b> (Guns: 1 M134D-H, 1 M260 Rocket Launcher) (Ammunition: 3,000 rds x 7.62mm, 7 rds x M151 HE rkts)	213.5	96.9	589.5	267.4
UH-1	<b>*UH-1 Huey Mount (P/N: B212)</b> (Guns: 1 M240 (MAG58), 1 M240 mount assembly) (Ammunition: 500 rds x 7.62mm)	122.8	55.7	154.0	69.8
	<b>*UH-1 Huey Mount</b> (Guns: 1 M134D-H, 1 magazine) (Ammunition: 4,000 rds x 7.62mm)	211.1	95.8	460.4	208.8



Equipment		Empty (Mount, WITH guns, NO ammunition)		Full (Mount, WITH guns, WITH ammunition)	
		lb	kg	lb	kg
Chinook Mount (Fits all versions of Chinook)	<b>*Chinook Mount</b> (Guns: 1 M240 (MAG58), 1 M240 mount assembly) (Ammunition: 500 rds x 7.62mm)	94.4	42.8	125.5	56.9
	<b>*Chinook Mount</b> (Guns: 1 M134D-H, 1 magazine) (Ammunition: 4,000 rds x 7.62mm)	258.1	117.1	507.5	230.2
UH-60	<b>*UH-60 Black Hawk Mount</b> (Gun: 1 M240 (MAG58), 1 M240 mount) (Ammunition: 500 rds x 7.62mm)	80.0	36.3	111.2	50.4
	<b>*UH-60 Black Hawk Mount</b> (Gun: 1 M134D-H, 1 magazine) (Ammunition: 4,000 rds x 7.62mm)	230.6	104.6	480.0	217.7
Mi-17	<b>*Mi-171 Mount</b> (Gun: 1 M240 (MAG58), 1 M240 mount) (Ammunition: 400 rds x 7.62mm)	141.6	64.2	166.5	75.5
	<b>*Mi-17V5 Mount</b> (Gun: 1 M134D-H, 1 magazine) (Ammunition: 3,000 rds x 7.62mm)	344.3	156.2	531.3	241.0
SEA					
Naval Mount	<b>*Naval Mount</b> (Tripod with MK16 installed)	68.0	30.8	-	-
	<b>*MK16 Only</b>	14.0	6.4	-	-
	<b>*Naval Mount Tripod</b> (Gun: 1 M134D-H, 1 magazine) (Ammunition: 1,500 rds x 7.62mm)	194.9	88.6	288.4	131.1
Hovercraft	<b>*Hovercraft</b> (Gun: 1 M134D-H, 2 magazines DAB3400) (Ammunition: 6,000 rds x 7.62mm)	402.8	182.7	776.8	352.4

Equipment		Empty (Mount, WITH guns, NO ammunition)		Full (Mount, WITH guns, WITH ammunition)	
		lb	kg	lb	kg
LAND					
MMC	<b>*MMC Mount</b> (Gun: M134D Steel, DAB3600) (Ammunition: 1,500 rds x 7.62mm)	229.1	103.9	416.1	188.7
	<b>*MMC Mount</b> (Gun: MK19) (Ammunition: 48 rds x 40mm)	185.0	83.9	209.0	94.8
	<b>*MMC Mount</b> (Gun: M240 (MAG58)) (Ammunition: 1,000 rds x 7.62mm)	133.9	60.7	196.2	89.0
	<b>*MMC Mount</b> (Gun: MK93, M2 Mount) (Ammunition: 500 rds x .50 BMG)	199.0	90.3	347.8	157.7
	<b>*Gunners Shield</b> (Chicken plate) (Optional with all versions)	100.0	45.4	-	-
Convoy Escort Vehicle (CEV)	<b>*CEV System With Hatches</b> (Gun: M134) (Ammunition: 3,000 rds x 7.62mm) (The hatches are Armor Level B6. Includes the M134, dual batteries, etc.)	544.0	247.0	732.0	332.0
	<b>*CEV System Without Hatches</b> (Gun: M134) (Ammunition: 3,000 rds x 7.62mm) (Includes the M134, dual batteries, etc.)	360.0	163.0	547.0	248.0

KEY
3,000 rds x 7.62mm = 187.2 lb (85.0 kg)
500 rds x 7.62mm = 31.2 lb (14.2 kg)
100 rds x .50 BMG = 29.8 lb (13.5 kg)
10 rds x .40mm Grenade Ammunition = 5.0 lb (2.3 kg)
M151 HE Rockets = 27.0 lb (12.2 kg)
H163 10# FFAR Rockets = 23.0 lb (10.4 kg)



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## AIRCRAFT GUN SIGHT



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# AIRCRAFT GUN SIGHT

The Fixed Forward Gun Sight is a simple, robust optical collimator design optical sighting system, for use in tactical aircraft. Tracing its lineage to the Lynn Type 3 Aircraft Sight, the gun sight has been re-designed to incorporate updated and simplified optics, on-board controls, optimized electronics, and aircraft power-source provisions. We currently have mounting provisions for multiple types of aircraft; however, the Gun Sight is adaptable to many fixed-wing and rotary-wing platforms with Fixed Forward weapon systems.

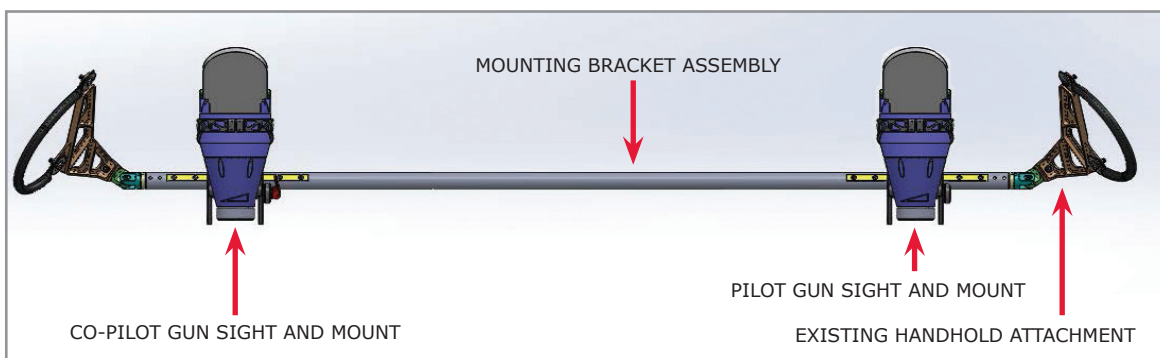
## FEATURES

- Fixed Forward (Reflex) Gun Sight
- Greatly improves first-pass hits
- Effective targeting to 1,200 m maximum effective range
- Simple & intuitive; remarkable ease of use
- Requires minimal training to attain maximum operator proficiency
- Streamlined design, yet highly durable
- Lateral adjustment 4.2 inches
- Vertical adjustment 3.55 inches
- Adjustable azimuth and elevation,  $\pm 3^\circ$
- Night-vision device (NVD) compatible
- Weight
  - Sight - 1.61 lb (0.73 kg)
  - Total system weight with both sights - 11.8 lb (5.35 kg)  
(System includes: 2 gun sights, 2 mounts, 2 brackets, 1 towel bar, and miscellaneous hardware)
- Aircraft interface
  - Integrated into aircraft electrical system - no batteries to charge or replace

**AIRCRAFT GUN SIGHT**  
**PART NUMBER: DGS MK-12**  
**NSN: PENDING**



Gun Sight



Design mount for the new generation Gun Sight (overall view)



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## **AMMUNITION MAGAZINES AND FEED SYSTEMS FOR AVIATION APPLICATIONS**



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# AMMUNITION MAGAZINES AND FEED SYSTEMS FOR AVIATION APPLICATIONS

Historically, ammunition magazines have been a persistent source of weapon malfunctions due to various design inadequacies. Dillon Aero invested many hours and resources into solving this problem, increasing both the reliability and the ease-of-use of magazines and feed systems.

Dillon Aero offers a wide selection of ammunition magazines, ranging in size from 400- to 4,000-round capacity. Designed for aviation use and analyzed for crashworthiness, the products are notable for their high resistance to jamming.

## FEATURES

- Integral attachment/tie-down mounting provision provides secure installation
- Division of each magazine into several compartments creates multiple ammunition bays
  - Each bay is divided with at least one baffle, which controls the ammunition and prevents magazine jams caused by cartridge inter-locking.
  - Optimized baffle design makes loading the magazine a simple and rapid task
  - Loading is accomplished by laying a continuous belt of ammunition from end to end. When the first bay is full, the belt is fed into the crossover section of the magazine and into the second bay.
- A standard 4,000-round magazine can be prepared for action in under four minutes.

Dillon Aero ammunition magazines are currently in service with the U.S. and foreign militaries, as well as in government service branches.



M134D magazine installed in a Bell 407 helicopter



OH-58 Kiowa M134D and magazine





AH407 3,000-round M134D magazine



3,000-round M134D magazine equipped with Last Round Switch System



M19/M19A1 magazine holder for the M240/MAG58 Mount



3,000-round magazine, Little Bird



4,000-round magazine equipped with Last Round Switch System

# AMMUNITION MAGAZINES AND FEED SYSTEMS FOR AVIATION APPLICATIONS

Ammunition Magazines					
Capacity (Rounds)*	Part Number	NSN	Description	Dimensions	Magazine Holder
	DGMT0251	Pending	200-Round Magazine Holder	12.00" (30.48 cm) L x 6.81" (17.30 cm) W x 8.17" (20.76 cm) H	P/N: DGMT0251 NSN: Pending
400	DAB400	8140-01-539-7564	2-Bay Ammunition Magazine	10.50" (26.67 cm) L x 8.25" (20.96 cm) W x 9.00" (22.86 cm) H**	P/N: CHMT0044 NSN: Pending
500	DAB500	1005-01-538-2028	2-Bay Ammunition Magazine	13.88" (35.24 cm) L x 8.25" (20.96 cm) W x 9.00" (22.86 cm) H**	P/N: DGMT0051 NSN: Pending
2,000	DAB2407	Pending	2-Bay Ammunition Magazine	25.35" (31.37 cm) L x 8.72" (22.15 cm) W x 21.59" (54.84 cm) H***	-
3,000	DAB3100	Pending	Magazine for Little Bird	24.22" (61.52 cm) L x 7.40" (18.80 cm) W x 27.11" (68.86 cm) H	-
	DAB3200	Pending	2-Bay Ammunition Magazine***	29.46" (74.83 cm) L x 8.91" (22.63 cm) W x 21.74" (55.22 cm) H	-
	DAB3300	Pending	Magazine for Kiowa Warrior	27.68" (70.31 cm) L x 9.57" (24.31 cm) W x 27.26" (69.24 cm) H****	-
	DAB3407	Pending	3-Bay Ammunition Magazine	25.50" (64.77 cm) L x 11.80" (29.97 cm) W x 21.59" (54.84 cm) H	-
4,000	DAB4160	1095-01-541-4378	2-Bay Ammunition Magazine	34.22" (86.92 cm) L x 8.91" (22.63 cm) W x 23.13" (58.75 cm) H	-
<p>* All capacities are approximate, due to individual loading technique.</p> <p>** Height does not include handle.</p> <p>*** Length includes last round switch.</p> <p>**** Length includes Ammunition Booster.</p> <p>***** The part nos. (listed above) have no relevance to ammunition capacity.</p>					



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# **AMMUNITION MAGAZINES AND FEED SYSTEMS FOR GROUND/NAVAL APPLICATIONS**



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# AMMUNITION MAGAZINES AND FEED SYSTEMS FOR GROUND/NAVAL APPLICATIONS

Historically, ammunition magazines have been a persistent source of weapon malfunctions due to various design inadequacies. Dillon Aero invested many hours and resources into solving this problem, increasing both the reliability and the ease-of-use of magazines and feed systems.

Dillon Aero offers a wide selection of ammunition magazines, ranging in size from 400- to 4,000-round capacity. Designed for aviation use and analyzed for crashworthiness, the products are notable for their high resistance to jamming.

## FEATURES

- Integral attachment/tie-down mounting provision provides secure installation
- Division of each magazine into several compartments creates multiple ammunition bays
  - Each bay is divided with at least one baffle, which controls the ammunition and prevents magazine jams caused by cartridge inter-locking.
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  - Loading is accomplished by laying a continuous belt of ammunition from end to end. When the first bay is full, the belt is fed into the crossover section of the magazine and into the second bay.
- A standard 4,000-round magazine can be prepared for action in under four minutes.

Dillon Aero ammunition magazines are currently in service with the U.S. and foreign militaries, as well as in government service branches.



Dillon Aero MMC Vehicle System with a 3,000-round magazine for ground applications



Dillon M134D-M Marinized system for Naval operations



3,000-round M134 magazine



3,000-round ammunition magazine with lid and booster

Dillon M134D Minigun Naval System including a 3,000-round ammunition magazine



3-bay ammunition can with rollers, ground applications

# AMMUNITION MAGAZINES AND FEED SYSTEMS FOR GROUND/NAVAL APPLICATIONS

Ammunition Magazines					
Capacity (Rounds)*	Part Number	NSN	Description	Dimensions	Magazine Holder
400	DAB4101	1005-01-541-0027	2-Bay Ammunition Magazine	12.75" (32.39 cm) L x 7.00" (17.78 cm) W x 7.00" (17.78 cm) H	P/N: Pending NSN: Pending
3,000	DAB3000	1005-01-512-4416	2-Bay Ammunition Magazine	26.84" (68.17 cm) L x 8.91" (22.63 cm) W x 27.40" (69.60 cm) H***	-
	DAB3400	Pending	2-Bay Ammunition Magazine	28.00" (71.12 cm) L x 8.91" (22.63 cm) W x 21.74" (55.22 cm) H	-
	DAB3500	Pending	3-Bay Ammunition Magazine	36.31" (92.23 cm) L x 11.96" (30.38 cm) W x 12.88" (32.72 cm) H	-
	DAB3600	Pending	3-Bay Ammunition Magazine - Rough Terrain	36.31" (92.23 cm) L x 11.96" (30.38 cm) W x 12.88" (32.72 cm) H	-
4,000	DAB4400	1005-01-490-9687	2-Bay Ammunition Magazine	28.00" (71.12 cm) L x 8.91" (22.63 cm) W x 27.16" (68.99 cm) H	-
<p>* All capacities are approximate, due to individual loading technique.</p> <p>** Dimensions do not include cover.</p> <p>*** Height includes Ammunition Booster.</p> <p>**** The part nos. (listed above) have no relevance to ammunition capacity.</p>					



Naval M134 Application



Polaris Dacor equipped with MMC-R and M134D



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## **Mi-8/Mi-17/Mi-171 WEAPON SYSTEM**



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# Mi-8/Mi-17/Mi-171 WEAPON SYSTEM

The Dillon Aero Mi-17/Mi-8/Mi-171 System is a weapons pallet which attaches directly to the standard floor hardpoints of the aircraft. Installation is accomplished in as little as ten minutes.

## FEATURES

- Aircraft configuration options include left door, right door, and aft (upon removal of clamshell doors)
- Compatible with M134D, M240/MAG58, M60, and PKM machine guns
- Ammunition for the M134D is supplied by 3,000-round ammunition magazine and feed system



Dillon Aero Mi-17 Mount armed with a PKM, M240/MAG58/GPMG, and the M134D minigun

**MI-17-1V CENTER LYING RAMP MOUNT**  
**PART NUMBER: DGMT7002**  
**NSN: PENDING**



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## UH-60 - BLACK HAWK WINDOW MOUNT



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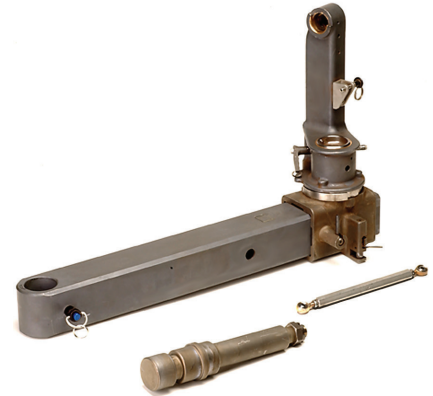
# UH-60 - BLACK HAWK WINDOW MOUNT

The Dillon Aero Black Hawk Mount is made of titanium which is strong and lightweight. This allows it to weigh in at only 22.9 lbs (10.3 kg).

## FEATURES

- Attaches to either the left or right window station behind the cockpit
- Stowed internally or extended for combat
- Accepts an M134 (Crew-Served or Fixed Forward operation), M240/MAG58, M60 or PKM machine guns

The Dillon Aero Black Hawk Window Mount is currently in service with the U.S. Military.



Dillon Aero Black Hawk mount



Black Hawk Window Mount with M134D installed



**BLACK HAWK WINDOW MOUNT (LEFT)**  
**PART NUMBER: DGMT1001**  
**NSN: 1005-01-535-3053**

**BLACK HAWK WINDOW MOUNT (RIGHT)**  
**PART NUMBER: DGMT1002**  
**NSN: 1005-01-535-3054**



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## CH/MH-47 - CHINOOK MOUNT



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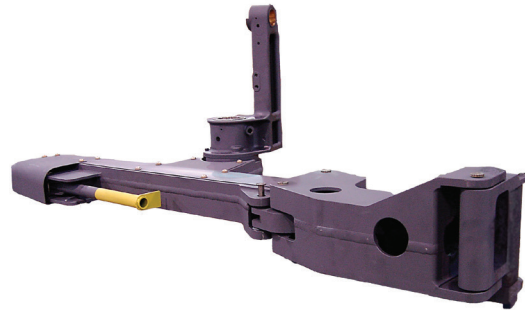
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## CH/MH-47 - CHINOOK MOUNT

The Dillon Aero Chinook Mount is a significantly lighter version of the General Dynamics variant. Weighing in at 45 lb (20.4 kg) – a reduction of 5 lb (2.6 kg) from the original construction. Its bi-fold design allows for quick removal and stowing in the event either the left side window or the right side doorway is needed for egress or ingress. The current floor plate assembly is strapped directly to the floor.



Dillon Aero Chinook Mount

### FEATURES:

- Standard post pintle of 2.25" (accepts the Dillon Aero Vertical Arm)
- Accommodates two 4,000-round magazines and two batteries (for use with the M134D gun system)
- Compatible with the M134D, M240/MAG58, M60 and PKM machine guns
- Fits all versions of Chinook

Dillon Aero is the sole provider of the Chinook mount to the U.S. Army Special Operations. It is also in service with numerous foreign militaries.



Chinook helicopter affixed with the Chinook Mount and M134D Minigun

**CHINOOK MOUNT (LEFT)**  
**PART NUMBER: CHMT9006**  
**NSN: PENDING**

**CHINOOK MOUNT (RIGHT)**  
**PART NUMBER: CHMT9005**  
**NSN: PENDING**



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## UH-1 - HUEY MOUNT



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# UH-1 - HUEY MOUNT



Dillon Aero Huey Mount armed with M134D Minigun

**HUEY MOUNT SINGLE POSITION**  
**PART NUMBER: UHMNT**  
**NSN: PENDING**

**HUEY MOUNT TWO POSITION**  
**PART NUMBER: UHXMNT**  
**NSN: PENDING**

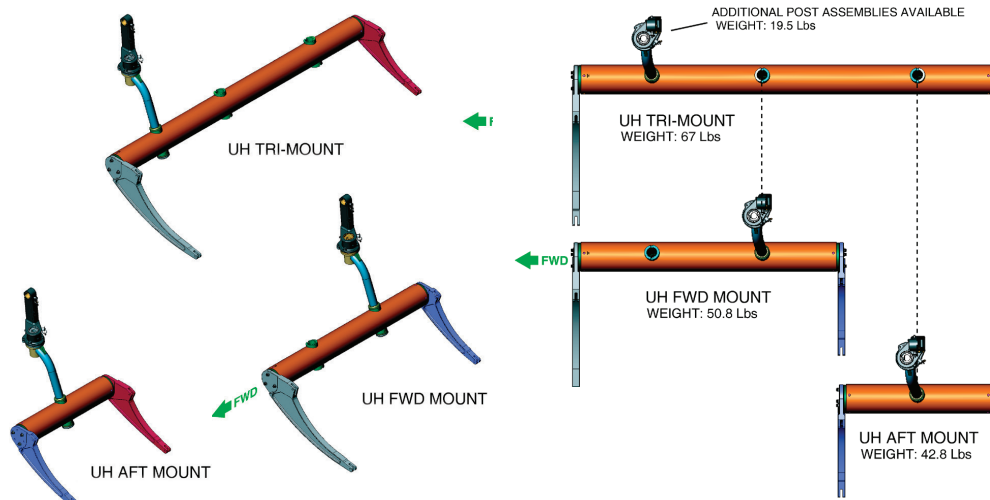
**HUEY MOUNT THREE POSITION**  
**PART NUMBER: UHXMNT-2**  
**NSN: 1005-01-572-0319**

Dillon Aero offers three external beam mounts for the Huey family of utility helicopters. The plug and play design permits a variety of installation options, contingent upon aircraft configuration. Each mount consists of two main support arms, cross beam, and one to three vertical post positions. The mounts attach to factory-installed hard points on the belly of the aircraft. Installation is possible within a few minutes.

## FEATURES

- 2.25" standard post pintle accepts the Dillon Aero Vertical Arm
- Compatible with a variety of currently fielded weapon systems, including the M134D, M240/MAG58, PKM, and M60
- Brass/link collection system (optional)

The Dillon Aero Huey Mount is currently used by the U.S. military.



Three types of Dillon Aero Huey Mounts



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## CONVOY ESCORT VEHICLE



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## CONVOY ESCORT VEHICLE

The Dillon Aero Convoy Escort Vehicle (CEV) offers exceptional VIP protection with CNC-machined, aerospace-grade components, including a concealed Dillon Aero M134D in the cabin. The incomparable design and exceptional efficiency of the CEV combine for a formidable defensive armament system. While the Minigun is undetectable, the system may be fully deployed in under three seconds at the first sign of danger, and fully concealed in less than eight seconds. Just as the M134D is hidden, the vehicle itself is visually indistinguishable from other commercial automobiles in normal mode. However, a variety of modification options ensures that this vehicle is anything other than typical. Indeed, the Dillon Aero Convoy Escort Vehicle delivers unparalleled covert threat mitigation.



CEV System deployed during night-time operations



Convoy Escort System



Convoy being protected by a concealed CEV



## FEATURES

- Weapon swivels 360° in both directions
- Self-contained electronics system, including AC and DC charge dual battery system to provide backup power
- Stowable gunner's seat
- Gun elevation +45° to -10°
- Safety interlock system prevents inadvertent firing
- Floor grating provides traction and allows spent casings to pass through
- Safety switch eliminates power when stowed

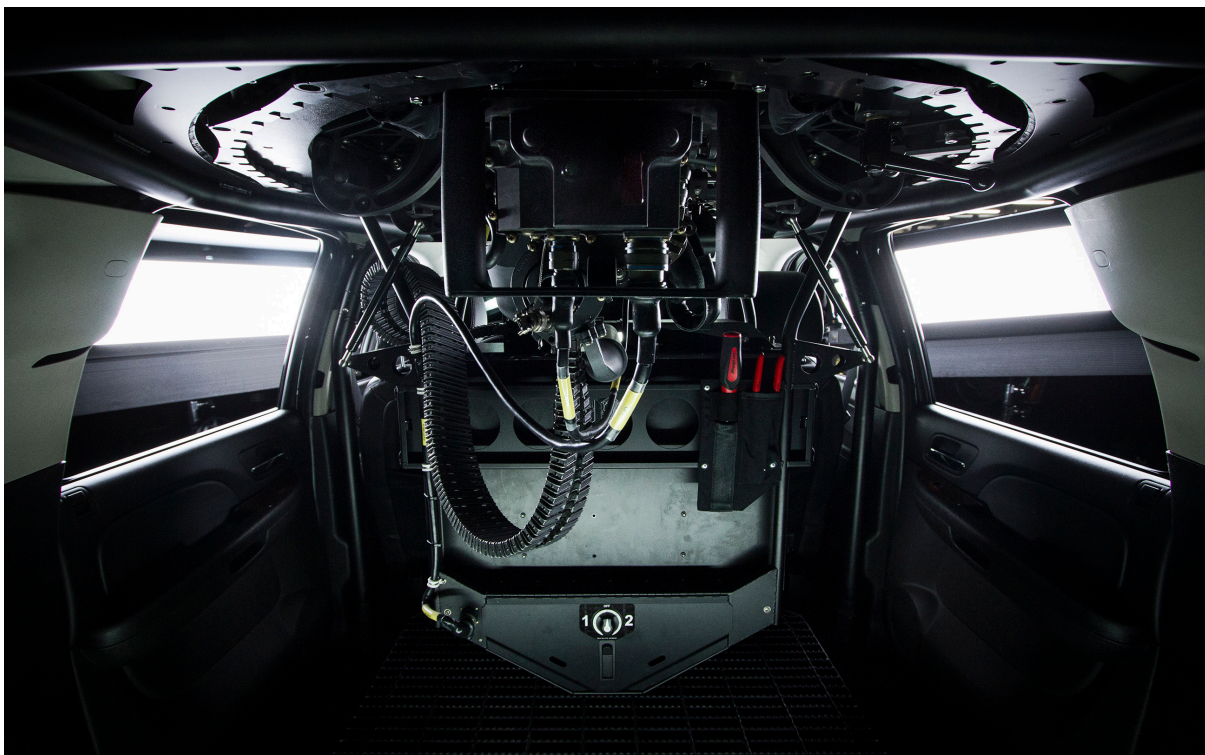
**CONVOY ESCORT VEHICLE  
PART NUMBER: DGMT7002  
NSN: PENDING**



CEV System stowed to maintain low profile



CEV System deployed, hatches open and minigun out



CEV System stowed - view from the gunner's seat

## MAJOR COMPONENTS

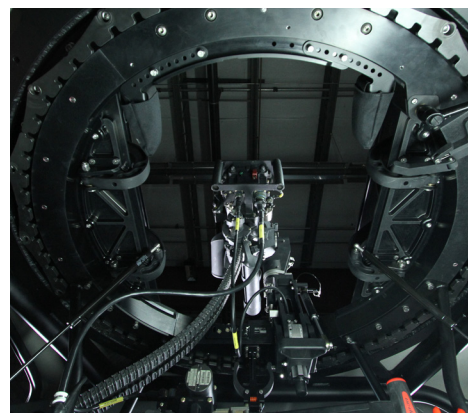
- Base vehicles
  - GMC Yukon
  - Chevrolet Suburban
  - Other vehicles available (special order)
- Armament package
  - M134D Minigun with 3,000-round magazine
  - Retractable gun mount
  - Turret, carrier, and armament system support cage

## OPTIONS

- Armor Level B6
- Emergency vehicle equipment
  - Run-Flat Tires
  - Fuel tank protection
  - Suspension upgrade
  - Law enforcement strobe lights
  - Public address system/siren
- Supercharger
- Window tint
- Additional magazine capacity (applies to limited platforms)
- Air-conditioning vent and control relocation for gunner (applies to limited platforms)



M134D deploying on a CEV System



Deployed M134D in a CEV System - view from inside

CEV SYSTEM WEIGHTS	
<b>CEV System With Hatches, M134, No Ammunition</b> (The hatches are Armor Level B6. Includes the M134, dual batteries, etc.)	544 lb (247 kg)
<b>CEV System With Hatches, M134, 3000 Rounds 7.62mm</b>	732 lb (332 kg)
<b>CEV System Without Hatches, M134, No Ammunition</b> (Includes the M134, dual batteries, etc.)	360 lb (163 kg)
<b>CEV System Without Hatches, M134, 3000 Rounds 7.62mm</b>	547 lb (248 kg)

\*\*\*Weight of 3,000 rounds is 187.2 lbs. / 85 kg



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## **DILLON AERO MAINTENANCE KITS**



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# ARMORER'S TOOL KIT

The Dillon Aero Armorer's Tool Kit contains the tools and spare items required for maintenance of the M134D system at the armorer level. The kit is stored in a sturdy lightweight carrying case. The rugged material and fold-out design ensures protection of the equipment. Dillon Aero maintains an inclusive, itemized list of all equipment within the Toolkit. For more information, please contact Dillon Aero.



Armorer's tool Kit



Tool kit carrying case

**ARMORER'S TOOL KIT**  
**PART NUMBER: DATK1050**  
**NSN: 5180-01-573-9682**

# GUNNER'S SPARES/TOOL BAG

The Gunner's Spares/Tool Bag contains the basic tools and spare items needed for the gunner to maintain the M134D system while in the field. The tools fit neatly into a rugged, transportable carrying case with molle straps for easy mounting to existing equipment. Included in this kit are a spare barrel, barrel erosion indicator, guide bar, bolt and bolt track, delinker retainment pin, and assorted hardware. Additionally, the three tools needed for field maintenance – large flat blade screwdriver, diagonal cutters (dikes), and ¼ inch ratchet, are included.



Gunner's Spares/Tool Bag

**GUNNER'S SPARES/TOOL BAG**  
**PART NUMBER: DMG5050**  
**NSN: 1005-01-579-6924**



## ASSEMBLY/DISASSEMBLY FIXTURE KIT

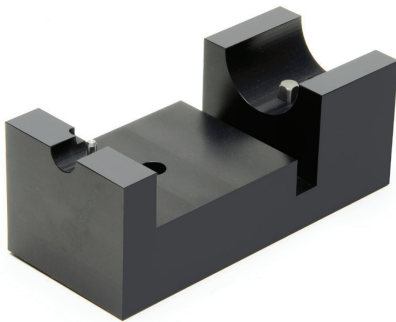
The Dillon Aero M134D Assembly/Disassembly Fixture Kit contains specialized fixtures and tools necessary for the complete disassembly and reassembly of the M134D. This kit contains a rotor disassembly tool, gearhead service kit, delinker assembly fixture, and bolt assembly fixture.



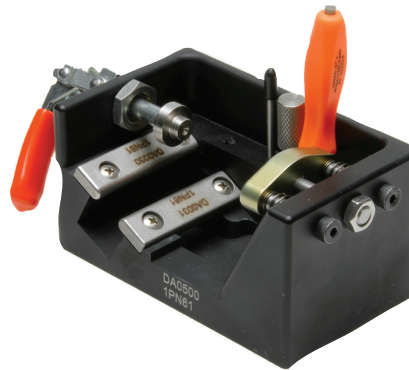
Rotor disassembly tool



Gearhead service kit



Delinker assembly fixture



Bolt assembly fixture

**M134D ASSEMBLY/DISASSEMBLY  
FIXTURE KIT  
PART NUMBER: DAF1050  
NSN: 1005-01-579-6921**



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## HOVERCRAFT MOUNT



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# HOVERCRAFT MOUNT

The Dillon Aero Hovercraft Mount supports an impressive 240° field of fire. The mount system is rapidly installed and adaptable to a wide range of watercraft - increasing versatility.

## FEATURES

- Product kit contains all necessary hardware to mount an M134D to the hovercraft
- Compatible with many currently fielded weapons systems, including the M134D, M240/MAG58, PKM, and M60



A Griffon Hoverwork hovercraft equipped with the Dillon Hovercraft Mount and M134D gun

**HOVERCRAFT PLATFORM  
PART NUMBER: DAHC2000  
NSN: PENDING**



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## DECK MOUNT



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## DECK MOUNT

The MK16 Deck Mount is a system of firing fixtures and assorted mount frames that naturally interface with the M134D Weapon System and other crew-served weapons. A compact design enables the Deck Mount to attach to land, sea or air based platforms with equivalent accessibility and ease of installation.

### FEATURES

- MOD 8 – Flowerpot: Attached to hard-points upon mount assemblies or pre-existing platform structures (i.e. gunnel or rail system) this fixture adapts the widely compatible Dillon Aero Forged Vertical Arm to a Deck via the 2.25" Pintle.
- MOD 9 - Centered Tripod: Fastened thoroughly into a deck surface, this tripod positions attached weapons over the center of the mount. This variant of the Deck Mount incorporates the Flowerpot.
- MOD 11 – Skewed Tripod: Fastened thoroughly into a deck surface, this tripod may be skewed forward to align attached weapons above the edge of a deck's trim. This variant of the Deck Mount incorporates the Flowerpot.

Qualified for use aboard a broad spectrum of vehicles, the Deck Mount is ideally suited as mount hardware for the M134D Weapon System in all mobile combat roles.

### M134D-M MARINIZED GUN

Dillon Aero has introduced a new variation of the M134D that is corrosion resistant for use in the marine environment. The M134D-M will consist of the base M134D-HHB, but will have the following improvements that will improve corrosion resistance.

### FEATURES

- Many of the gun components (including the barrels) will be coated with Cerakote™ ceramic coatings. The unique formulation used for Cerakote™ ceramic coating enhances a number of physical performance properties including abrasion/wear resistance, corrosion resistance, chemical resistance impact strength and hardness.
- The hardware in the M134D-M will be Stainless Steel and/or treated with the Cerakote™ ceramic coating.
- This M134D-M has been tested in accordance with MIL-STD-810G, Method 509.5 Salt Fog.



**NAVAL POST MOUNT TRIPOD  
WITH STAND  
PART NUMBER: NAV-MK16-MOD9  
NSN: 1005-01-581-7375**



## M134D MINIGUN FOR RIVERINE APPLICATIONS



Dillon M134D-M Marinized system for Naval operations





Deck Mount



Riverine application of the minigun



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## TRAINING COURSES



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# **BASIC M134D OPERATOR/MAINTAINER 3 DAY TRAINING COURSE**

Dillon Aero offers a basic familiarization course geared towards new users, or as a refresher for prior users. It establishes a good foundation of knowledge, and provides hands-on practical experience with the M134D System.

When students complete this course, they will be familiar with the procedures for safe and effective operation, as well as operator/limited intermediate-level maintenance, of the weapon system in accordance with Dillon Aero published manuals and guides.

Training is comprised of 2 days of in-classroom instruction, and 1 day of live fire instruction. Course instruction consists of explanation, demonstration, and student hands-on participation. Dillon Aero provides live weapons, training aids, tool kits, special tools, fixtures, linked inert dummy ammunition and linked live ammunition for live fire range for use during the course. This course is limited to 6 personnel maximum.

\*Please contact us if you need more than 6 personnel per course.

## **TOPICS COVERED INCLUDE:**

- M134 History/Dillon Aero company history
- Safe and proper gun handling during maintenance and operation
- Theory/method of operation
- M134D Nomenclature, characteristics, and general data
- Gun system set up and function checks
- Ammunition handling and magazine loading
- Gun loading and clearing procedures
- Immediate/remedial action drills
- Live-fire training
- Weapons handling, trigger and burst control, platform-specific gun handling skills
- Weapon maintenance (Operator to intermediate level)
- Pre-fire and post-fire operator maintenance/troubleshooting
- Disassembly, inspection, repair, replacement, lubrication/servicing, reassembly, and function checks
- Use of Dillon Aero tool kits, fixtures, special tools, and training aids

## **DOCUMENTS/PUBLICATIONS PROVIDED:**

- M134D Operations and Maintenance Manual (hard copy)
- M134D Quick Reference Guide (hard copy)
- M134D Gun Maintenance, Feeder/Delinker Assembly/Disassembly, Magazine Loading DVD
- Certificate of Training Completion



Dillon training classroom



Students practicing during a training session

## **ADVANCED M134D OPERATOR/MAINTAINER 5 DAY TRAINING COURSE**

Dillon Aero offers an advanced training course that is designed to train users in comprehensive Operation and Maintenance of the M134D System, and covers much more than the basic weapon familiarization course. In this course, each individual student is allotted extended time for practical hands-on exercises with the M134D System, under direct Dillon Aero Instructor supervision until 100% competency is demonstrated, and instructor-confirmed.

Once a student completes this course, they will have the ability to effectively demonstrate safe and effective operation, as well as operator/intermediate-level maintenance, of the weapon system in accordance with Dillon Aero published manuals and guides.

This course will aid, and is intended for those seeking to become an M134D System Instructor at their respective Unit or AOR. Training is comprised of 3 days of in-classroom instruction, and 2 days of live fire instruction. Course instruction consists of detailed explanation, demonstration, and individual student hands-on participation. Dillon Aero provides live weapons, training aids, tool kits, special tools, fixtures, linked inert dummy ammunition and linked live ammunition for live fire range for use during the course. This course is limited to 6 personnel, maximum.

\*Please contact us if you need more than 6 personnel per course.

### **TOPICS COVERED INCLUDE:**

- M134 History/Dillon Aero company history
- Safe and proper gun handling during maintenance and operation
- Theory/method of operation
- M134D Nomenclature, characteristics, and general data
- Gun system set up and function checks
- Ammunition handling and magazine loading
- Gun loading and clearing procedures
- Immediate/remedial action drills
- Live-fire training
- Weapons handling, trigger and burst control, platform-specific gun handling skills
- Weapon maintenance (Operator to intermediate level)
- Pre-fire and post-fire operator maintenance/troubleshooting
- Disassembly, inspection, repair, replacement, lubrication/servicing, reassembly, and function checks
- Use of Dillon Aero tool kits, fixtures, special tools, and training aids

### **DOCUMENTS/PUBLICATIONS PROVIDED:**

- M134D Operations and Maintenance Manual (hard copy)
- M134D Quick Reference Guide (hard copy)
- M134D Gun Maintenance, Feeder/Delinker Assembly/Disassembly, Magazine Loading DVD
- Certificate of Training Completion



M134D firing from UH-1H



M134D firing from Polaris Dagor



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## **DILLON AERO PRECISION AERIAL RIFLE COURSE**



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# DILLON AERO PRECISION AERIAL RIFLE COURSE

Dillon Aerial Marksmanship training is composed of classroom/ground instruction and live aerial firing, utilizing Dillon Aero's helicopters or the customer's aircraft. Classroom/ground instruction provides a solid theoretical understanding of aerial marksmanship. The majority of the training is practical marksmanship and is conducted in a helicopter. Flight profiles begin with airspeeds of 40-50 knots at an altitude of 100 feet and 100 meters offset from target. Each student will progress to 60 knots, and ranges up to 300 meters offset.

The helicopter provides an excellent aerial platform to engage targets and provide the ground force with information that will enhance operations and safety. This course is ideal for advancing Government agencies, SWAT officers, and Special Operations Personnel to the next level in Aerial Rifle Shooting.

The Dillon Aerial Marksmanship Course will provide instruction for the following:

- Aircrew and shooter coordination
- Shooter training and Aircrew training
- Weapons, equipment, and aircraft setup
- Range and Offset Lag Estimation

## CLASS SCHEDULE

### Day 1

*The Three Shot Standard:* Concentration on parallel, known distance targets. These evolutions teach the basics of lag aiming and lag-offset estimation. By completion of the first day, students will be capable of successfully engaging a man-sized target to a three shot standard.

### Day 2

*Angles and Randoms:* Concentration on modified aimpoint-offsets for targets of less than 90 degrees Angle Off and Random target engagement. Targets of less than 90 degrees from the flight path of the aircraft (Angle Off the aircraft nose) are deceptively difficult. Special attention is given to the techniques used to engage this type. Random target engagement is a drill conducted during the final evolution. The intent of this drill is to add additional elements of stress to the engagement sequence. This is accomplished by compressing the engagement time and randomly altering the target distance. Both Angles and Randoms are taught to a three shot standard.

### Day 2 (Night)

The night phase repeats the day evolutions in a compressed format. This phase is optional.

**COURSE REQUIREMENTS:** (Dillon can provide these items for an additional fee.)

- *Weapons:* .556 or 7.62. Students may bring their own weapons. Suppressors are strongly encouraged.
- *Ammunition:* A minimum of 400 rounds is required.
- *Kit and NVG:* Students should train in the kit they operate in. For the night phase, NVGs and NVG compatible helmet is required.



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TOLL FREE +1 800.881.4231 • TEL +1 480.333.5450 • FAX +1 480.948.6616  
training@dillonaero.com    www.dillonaero.com

## **MULTI-MISSION COMPATIBLE SYSTEM (MMC/MMC-R)**



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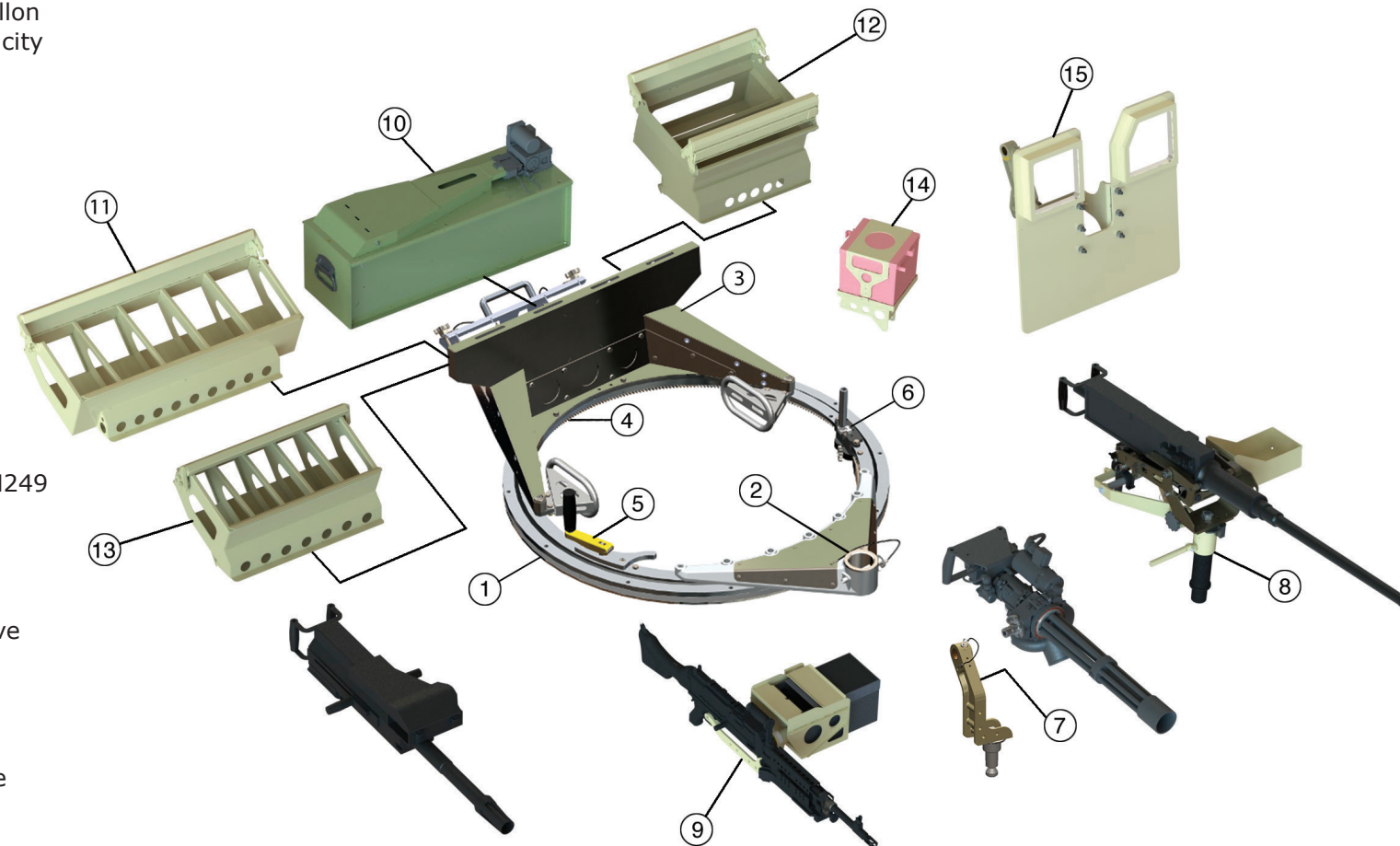
## MULTI - MISSION COMPATIBLE SYSTEM (MMC/MMC-R)

Multiple platforms, multiple weapons, one system.

The Multi-Mission Compatible Rapid System (MMC-R) enables land & sea platforms (tactical vehicles, boats) to be rapidly configured to the continually changing requirements of the modern battlefield. It is a cost-effective weapons and ammunition mounting system that allows users to rapidly configure a vehicle platform to suit mission requirements. It provides multiple weapon options in a single system. Available options include a bolt-on system or a complete system with the included vehicle.

The components include:

1. Turret ring
2. Universal weapons sub-mount (accepts Dillon Aero's entire line of high ammunition capacity weapon mounts)
3. Universal ammunition sub-tray
4. Gear ring
5. Hand crank
6. Transit lock with dead man switch
7. Ground vertical arm for M134
8. MK93 weapons mount for M2/MK19
9. M35 weapons mount for M240 (MAG58)/M249
10. Dillon Aero M134D Magazine (holds 3,000 rounds)
11. M2 ammunition magazine holder (holds five 100-round .50 cal magazines)
12. MK19 magazine holder
13. M240/MAG58/MK48 ammunition magazine holder (holds eight 200-round 7.62mm magazines)
14. M134 battery and battery tray
15. Gunner's shield



Components of the Multi-Mission Compatible (MMC) System

The Multi-Mission Compatible System is offered in two models, the MMC and the MMC-R (Rapid).

**MMC:** On the standard model MMC, the Universal Weapons Sub-Mount and Universal Ammunition Sub-Tray are fixed components that allow users to weaponize their vehicle as required.

**MMC-R:** The MMC-R offers the same capabilities as the MMC but is designed to be compatible with CH-47 space limitations on vehicles designed specifically with this in mind, like the Polaris Dagor. To achieve this, the MMC-R Weapons Sub-Mount folds down and the Universal Ammunition Sub-Tray quickly disconnects from the bearing assembly to accommodate CH-47 transport. This allows the user to bring a vehicle to 'mission ready' status in a minimum amount of time.

The Universal Weapons Sub-Mount will accept Dillon Aero's complete line of HiCap high ammunition capacity weapon mounts.

**MULTI-MISSION COMPATIBLE  
SYSTEM (MMC-R)  
PART NUMBER: DGV2000  
NSN: PENDING**

### FEATURES:

- Support structure (optional)
- Compatibility with M134D, M240 (MAG58)/M60/MK48, MK19/MK47/ HK GMG, M2, PKM and others
- Universal ammunition sub-tray allows for easy conversion
- Custom holders and racks

### FUTURE UPGRADES:

- Powered turret
- 360° turret armor



MMC system installed on a Hilux



MMC system mounted with M134D



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## LIGHTWEIGHT LITHIUM BATTERY



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# LITHIUM BATTERY

## FEATURES

- An LED status display which indicates the relative charge status
- Accepts a standard Concord style connector (shown below)

Technical Specifications for the DMG0780 - Lightweight Lithium Battery	
Battery Size	3.49" L x 4.50" W x 9.49 H (8.86 cm L x 11.43 cm W x 24.10 cm H)
Battery Weight	8.0-8.5 lb. (3.63-3.85 Kg)
Nominal Voltage	25.5 Volts
Nominal Capacity at 0.5C and 25.0°C	7 Amp Hours
Voltage Range	16V to 28.8V
Cycle Life	Greater than 500 cycles to 80% of initial capacity
Self Discharge Rate	Less than 4% per month
Operating/Storage Temperature	-30.0°C to 60.0°C



Lithium battery

**LITHIUM BATTERY  
PART NUMBER: DMG0780  
NSN: PENDING**



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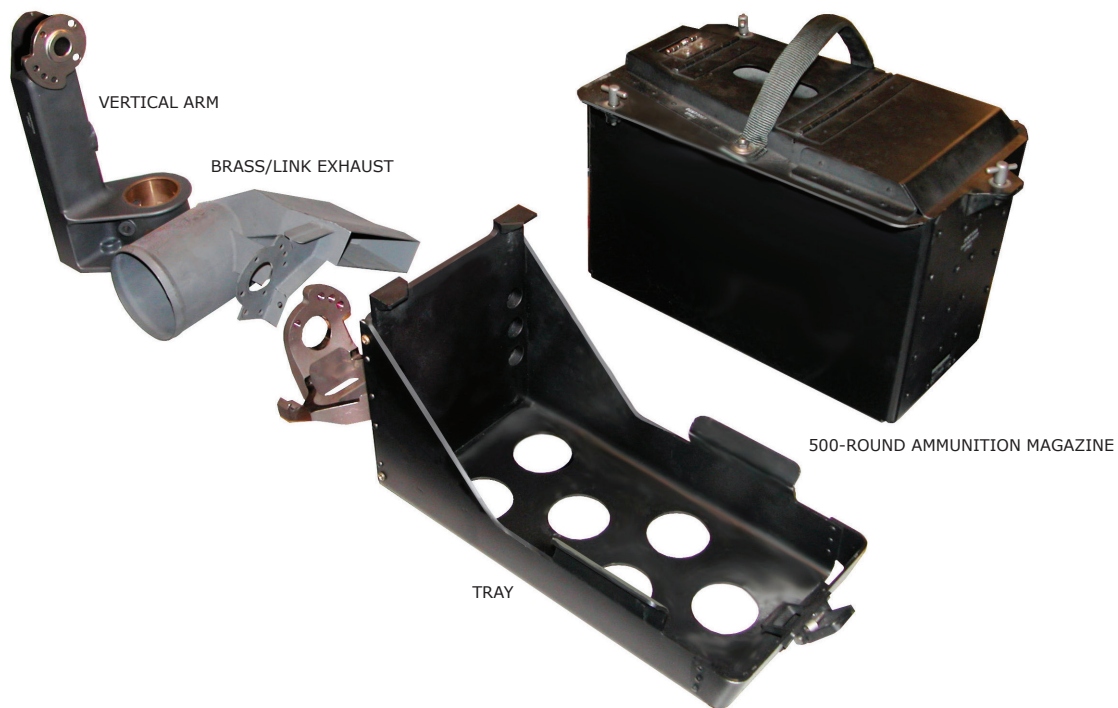
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# M60 MOUNT

The Dillon Aero M60 Mount is compatible with any standard NATO weapon pintle. This allows it to fit most ground vehicles, helicopters, and watercraft utilizing existing Dillon mounts.

## FEATURES

- 200-, 400-, or 500-round magazine (optional)
- Magazine tray
- Dillon Aero Vertical Arm
- Brass/link overboard exhaust system (optional)



Component break down of a Dillon Aero M60 Machine Gun Mount

**M60 MOUNT ASSEMBLY  
PART NUMBER: CONTACT DILLON AERO**

## M60 MOUNT



Dillon Aero M60 mount



M60 Mount in-flight on a UH-1 helicopter



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## **M240/MAG58 MOUNT AND M60 MOUNT**



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# M240/MAG58 MOUNT



M240/MAG58 Mount in-flight on a UH-1 helicopter

The Dillon Aero line of gun mounts extends beyond the M134D. A lightweight universal gun mount option is also available for the M240/MAG58. Its design ensures compatibility with the M134D Vertical Arm. As such, any platform equipped with an M134D system is interchangeable with the M240/MAG58 in a matter of seconds.

The M240/MAG58 Mount can be fed from either the standard 200-round ammunition magazine, or Dillon Aero’s 400- or 500-round magazines, which results in fewer dropped magazines, less gun down-time, and reduced aircraft exposure.



M240/MAG58 Mount

M240/MAG58 MOUNT ASSEMBLY	
DGMT0500	DGMT0525
Cradle assembly included	Cradle assembly included
Brass deflector included	Brass/link exhaust system included
500-round magazine included	500-round magazine included
NSN: 1005-01-538-6664	NSN: PENDING

The Dillon Aero M240/MAG58 Mount is currently used by the U.S. and foreign militaries, operating in both ground and aviation applications.

## AMMUNITION COUNTER



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# AMMUNITION COUNTER

The Ammunition Counter allows the user to keep track of fired rounds. It is designed to work with Standard Armament or Nobles feed chutes using 7.62mm NATO ammunition with M13 links. The system can connect anywhere along the feed chute. This system uses touchless optical sensors and is able to count in both directions, minimizing miscounts in high vibration environments.

## FEATURES

- O-ring sealed aluminum housing is suitable for harsh environments from -40°C to 85°C
- Field serviceable battery powers unit up to 5 yrs
- Programmable total and trip counters
- Temporary "load" counter can be used to count while loading and unloading magazine
- Integrated seven digit display includes an NVG compatible backlight
- Display easily rotates 180° for ease of viewing on either side



Ammunition Counter

**PART NUMBERS: 380350 - AMMUNITION COUNTER, NOBLES FEED CHUTE  
380351 - AMMUNITION COUNTER, STANDARD ARMAMENT FEED CHUTE**

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## **DILLON AERO M134D-M MARINIZED GUN**



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# DILLON AERO M134D-M MARINIZED GUN

Dillon Aero has introduced a new variation of the M134D that is corrosion resistant for use in the marine environment. The M134D-M will consist of the base M134D-HHB, but will have the following improvements that will improve corrosion resistance.

## FEATURES

- Many of the gun components (including the barrels) will be coated with Cerakote™ ceramic coatings. The unique formulation used for Cerakote™ ceramic coating enhances a number of physical performance properties including abrasion/wear resistance, corrosion resistance, chemical resistance impact strength and hardness.
- The hardware in the M134D-M will be Stainless Steel and/or treated with the Cerakote™ ceramic coating.
- This M134D-M has been tested in accordance with MIL-STD-810G, Method 509.5 Salt Fog.
- The M134D-M will consist of the following:
  - Marinized Clutch Assembly
  - Marinized Feeder/Delinker
  - Marinized Heavy Barrels
  - Titanium Rotor Assembly
  - Marinized Gun Assembly
  - Marinized Brass/Link Exhaust
  - Marinized Booster Assembly
  - Marinized Ammunition Can

**M134D-M MARINIZED GUN**  
**PART NUMBER: M134D-M**  
**NSN: PENDING**



Riverine application of the minigun



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## UNIVERSAL NAVAL MOUNT SYSTEM



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# UNIVERSAL NAVAL MOUNT SYSTEM

The NAV6000 – Universal Naval Mount or UNM is a system of plates used to secure the MK16 Deck Mount as it deploys the M134D Weapon System in a naval combat role. A fully modular design permits installation of the UNM to otherwise congested, compact or inaccessible deck spaces while also providing an unmatched standard of configuration versatility.

## FEATURES

- Through use of adhesive deck studs, the UNM hardware firmly adheres to deck surfaces thus requiring no permanent alteration to recipient naval craft. Collectively, these studs are capable of restraining a fully equipped weapon system in all maritime conditions.
- Each of the three distinct mount plates assemblies are dedicated to affixing a module of the M134D Weapon System to a deck surface. According to their hardware dedication they are as follows:
  - NAV6100 – Tripod Mount Plate (Deck Mount Plate)
  - NAV6200 – Battery Mount Plate
  - NAV6300 – Magazine Mount Plate

These Mount Plates retain a minimal footprint which permits placement of Weapon System modules in the quantity and position required by virtually any mission.

The Universal Naval Mount System is designed to coordinate with the MK16 Deck Mount. In combination, these systems magnify the function of the M134D and expand the operating capacity of virtually all naval platforms.



**UNIVERSAL NAVAL MOUNT SYSTEM**  
**PART NUMBER: NAV6000**  
**NSN: PENDING**



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