

DILLON AERO



503D

Ground/Naval Crew Served Weapon



Features of the Dillon Aero 503D

Familiarity with the M134D will allow a user to quickly learn 503D operations.

The design reduces the total number of internal parts, allowing an operator to quickly clear a jam or ammunition malfunction and return the gun to service .

Routine maintenance is improved with a tool free, turn lock mounting interface to attach or remove the gun to its recoil buffer set.

The 503D can be field stripped with minimal tools by users to service and keep the guns running smoothly during sustained operations.

A complete gun service to include, tear down, inspection, servicing and reassembly can be accomplished in 2-3 hours.

The magazine system and booster / rounds repositioner assembly ensures rounds are ready for the feeder which will reduce

feed malfunctions and ensure smooth ammunition feeding.

The 503D will enjoy the same Dillon Aero factory product support that we've provided to our US SOCOM and International M134D customers for over 30 years.

We are building our inventory of critical components, especially long lead time items to ensure we provide the responsive support Dillon Aero Customers are accustomed to.

We are committed to provide world class logistical support to our customers as well as realistic training services at our facilities in Arizona or at your location.

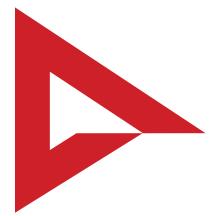


Dillon Aero is pleased to release a Modern 3-barreled .50 Caliber Gatling Gun, the 503D. With the long-time success of the M134D, it was a natural transition to offer a medium caliber machine gun. Working with end users, Dillon Aero designers were able to address some of the issues inherent in other .50 Caliber Gatling Guns. The bullets below highlight some of the advantages the Modern 503D will enjoy over legacy .50 Caliber Gatling Guns.

Characteristics of the Dillon Aero 503D

- Users of the M134D would be familiar with the 503D. Many operational interfaces and components of the 503D carry recognizable design cues from the M134D, allowing for a smooth transition between weapon systems.
- Users of the other gatling guns would transition easily due to similar functionality in the primary components of the 503D design.
- The 503D design moves the transfer mechanism from the gun to the feeder/delinker.
 - o This reduces the number of parts on the gun and lessens the likelihood the gun would be unserviceable if the transfer mechanism were to become jammed or damaged.
 - o Clearing a gun that is jammed is now significantly easier without a transfer mechanism in the way.
 - o The feeder/delinker is where most jams originate. By moving the transfer unit from the gun to the feeder of the 503D, the two most sensitive elements of the gun system have been combined into a single unit. A quick and simple feeder swap would keep the weapon in the fight longer if a jam event were to occur with the 503D.
- The 503D is lighter.
- With a modular Ammunition Magazine reload times are significantly reduced and mission flexibility are increased.
- Routine Maintenance is faster and easier on the 503D. In contrast to legacy systems, you'll take about half the time to disassemble, inspect, maintain, and reassemble the 503D.
- The 503D can be field stripped by users to keep the gun running smoothly in harsh environments.
- Product support from the factory will be handled like the M134D; a continuously stocked, readily available inventory of all 503D gun system components, with particular emphasis on maintaining inventory of longlead items.

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Ground/Naval Crew Served Weapon

Based on the reliable and combat proven design of the Dillon Aero M134D system, the 503D Weapon System minimizes recoil forces and allows the operator to effectively manipulate the weapon through azimuth and elevation ranges specific to the platform.

Ground / Naval Crew-served weapon mount is compatible with Dillon Aero MMC turret system, and other MK16 type and G3 type pintle interfaces.

The dual trigger grip interface features a backlit, dimmable and NVG compatible

display to track specific mission and cumulative round counts. An integrated ammunition boost button in the grip simplifies and speeds ammunition loading from the magazine to the feeder.

The Dillon Aero 503D is fielded as a complete system with a versatile ammunition magazine, feed chutes, power supply, cables, multiple provisions for mounting Machine Gun Reflex Sights (MGRS), Lasers and other accessories on Picatinny or M-LOK Rails.



Caliber: .50 BMG (12.7 x 99mm NATO)

Muzzle Velocity: 2800 ft/s (853 m/s)

Effective Range: 2000 m

Barrel: 36 in., 8 Groove, 1 in 15" Twist

Gun Dimensions: 52.7" (L) x 13.2" (W) x 11.6" (H)

Feed Interface: M9 Link Belted Ammunition

Gun Weight: 101.4 LB / 46 kg (Gun and Feeder)

Firing Rate: 1500 Rounds Per Minute / 25 Rounds Per Second

503D

Firing Rate – 1500 rounds per minutes nominal. This means higher target saturation.

Loading is like the M134D, by flipping the two doors open and setting the belt in the sprocket. No rotation of the gun is necessary.

Mechanical Safeing is done by means of a rotating lever on the gun housing. The location and feel are similar to the M134D. The safeing mechanism does not require any adjustment.

If the gun jams with the sear pin on the safety ramp, the operator can still actuate the safeing mechanism into the safe position without rotating the barrels. This dramatically reduces the probability of an accidental discharge in jam events.

Operators can easily remove bolt assemblies from the gun for inspection, maintenance, relubrication, or replacement in minutes.

Barrel clamp has a self-contained locking ring that is secured with a non-torqued cross bolt and cotter pin.

The feeder utilizes an integrated tool-free latching mechanism to connect to the gun.

Gun secures to mounts via an integrated set of tool-free turn lock mechanisms, eliminating quick release pins.

LEGACY

Firing rate – 1200 rounds per minutes.

Proper loading can be difficult and is typically done by inserting the belt and manually advancing the gun to pull in the belt.

The safety is on the back of the gun and attached to an actuator arm that may require periodic adjustment to function properly.

If a jam occurs with the sear pin on the safety ramp, the gun needs to be rotated to apply the safety. This is one major issue with the Legacy design as the probability of an accidental discharges increases.

Bolt assembly removal requires substantial disassembly of the gun.

Barrel clamp removal requires removing multiple safety wired bolts.

The feeder is attached with quick release pins that could become lost.

Standard gun attachment uses quick release pins.