

# MA-16T

Martin-Baker have developed a family of dual-sensing Inertia Reels to the specification for type MA-16 of MIL-R-8236F. These are the Standard / Crew and Gunner Inertia Reels which are already approved via a U.S. Army Airworthiness Release (AWR) and currently in operational service on the UH-60M Black Hawk.

The Martin-Baker MA-16 Inertia Reels are designed to be compatible to existing MA-16 Reel types, accepting all standard Qualified Product List (QPL) Cables and Handles. The Martin-Baker design has the following improvements over existing MA-16 Inertia Reels from 'Third Party' Suppliers:



- ▼ Unique Spindle Locking Facility and Open Body to facilitate rapid Webbing changes with the Reel still fitted to the Seat
- ▼ Main Spring that gives a consistent retraction force
- ▼ Reduced weight
- ▼ Reduced cost
- ▼ Rotating Spool reduces the wear on Webbing



Each Reel employs a unique Control Head design which can be adjusted to 12 equally spaced rotary positions. Martin-Baker supply 2 different Control Heads – the Single Operational Control Head and a unique Dual Operational Control Head. The Dual Operational Control Head controls the Reel it is attached to and has the facility to connect a second Reel via a Martin-Baker Manual Control Cable, thus allowing the two Reels to be operated with a single Reel-Mounted Handle.



Martin-Baker have specifically designed the High-Capacity Crew and Gunner Reels for use with a high extension Harness such as that used on the Martin-Baker Multi-Functional Operator Seat (MFOS). The MFOS uses a three-reel snag free Stand-Up Harness with a large Webbing capacity and a light retraction force which allows a wide range of movement around the Seat.

The MFOS uses two High-Capacity Crew Reels and one Gunner Reel. The Gunner Reel is a unique design with a similar weight as the High-Capacity Crew Reel but even more Webbing capacity.

Martin-Baker are further able to supply Cables and Control Handles for the Reels. Martin-Baker Cables include a range of adaptors to allow multiple Reels to be controlled from a single Handle.



To date, over 11,000 MA-16T Reels delivered since 2010.



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# MA-16T



## Design Characteristics

Environmentals:	MIL-STD-810F
Dynamic Crash Test:	Based upon MIL-R-8236F
Ultimate Load:	5000lbf (22.24kN)
Proof Load:	3330lbf (14.81kN)
Temperature Range:	-65°F to +230°F
Dimension Envelope as per Existing Offerings:	MIL-R-8236F
Finish:	Non-Reflective
Service Life:	10 Years

### High-Capacity Crew / Standard Reel

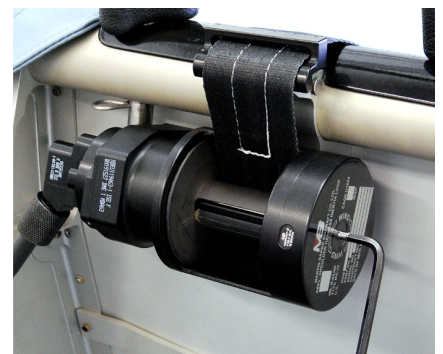
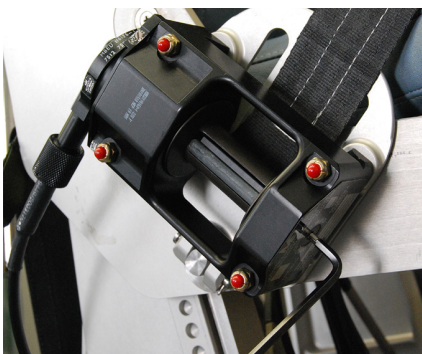


### Gunner Reel



Webbing Capacity	46 inches	50 inches
Mass (without Webbing)	1.74lbs with Single Operation Head 1.83lbs with Dual Operation Head	1.77lbs with Single Operation Head
Attachment	4 bolts	2 bolts

\*Capacity with standard thickness webbing to MIL-R-8236F. Higher capacity can be achieved with Martin-Baker webbing.



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