

Inertia Reel System

MA-16

COBHAM

The most important thing we build is trust



Applications

Fixed (non-ejection) seat equipped aircraft and helicopters.

Physical Specifications

Part	Part Number	NSN
Inertia Reel Type MA-16	015-870146-3-16	1680-01-590-4019
Gunners Reel Type MA-16	015-870146-9-16	1680-01-590-4020
High Capacity Type MA-16	015-870146-11-16	1680-01-590-4024
Manual Control Handle	950017-3	1680-01-437-0398
Control Cable	920070 - *	1680-00-493-1520
Lead-In Straps	900017 - *	
	900128 - *	
	2002181-3	46.25 in (117cm) Kevlar

* Other lengths available in various increments

Part Number	Weight	Part Number	Weight
015-870146-3-16	1.80 lbs (816 g)	950017-3	3.20 oz(90 g)
015-870146-9-16	2.80 lbs (1,270 g)	920070-8	4.80 oz(136 g)

Performance Characteristics

Environments	MIL-STD-810
Dynamic crash test	MIL-R-8236F
Ultimate Load	5,000 lbs (2,268 kg)
Proof Load	3,333 lbs (1,512 kg)
Temperature Range	-65°F to +230°F (-54°C to +110°C)
Life Cycle	60,000 Cycles

Finish: Matte black anodize, other colors or paint finishes available upon request.

Dimensions conform to envelope dimensions specified in MIL-R-8236F

The dual sensing MA-16 inertia reel system represents a significant and innovative aircrew occupant restraint safety enhancement during a hard landing or crash impact. The MA system includes a family of reels, control handles, control cables and lead-in straps. As a U.S. Defense Standardization Program QPL Approved inertia reel system, it has the capability to lock by sensing strap acceleration and omni-directional impact forces. By virtue of its sound design, dual sensing lock capability, qualification to MIL-R-8236F and zero failure rate during hundreds of test and aircraft crash impact, it:

- Has eliminated the relatively high failure rate experienced by some strap acceleration sensing inertia reels when subjected to crash loads. (These failures have resulted in many avoidable aircrew injuries and fatalities.)
- Has greatly enhanced crash safety due to the impact sensing capability which reduces occupant flail and associated cockpit structure strike injuries during the crash impact sequence
- Offers a demonstrated service life of at least 10 years.

The MA-16 inertia reel system is the choice of all the U.S. Armed services, Australian forces and most NATO countries for non-ejection-seat aircrew restraint systems. It can be configured for pilot, gunner, medic and crew chief restraint applications.

Cage Code 62323

For further information please contact:

Cobham Life Support
2801 75th Street North
St. Petersburg, FL 33710 USA

Tel: +1 (727) 345 8000

Fax: +1 (727) 345 4217

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