

Aeromechanical Systems > Towed Targets

RM-62 Aerial Tow Target Reeling Machine-Launcher



The RM-62 Tow Reel is a semi-automatic, ram-air, turbine-driven reeling machine designed to reel out, stop, reel in and recover aerial towed vehicles. The towline is stored on a spool and is controlled and guided during reel-in and reel-out by a levelwind and system of sheaves. Reeling and tow vehicle recovery speeds are pre-programmed and automatically controlled by the Microprocessor Logic Control Module (MLCM). The tow reel is controlled by a cockpit or cabin installed panel (dependant on aircraft type) operated by the pilot or designated tow-reel operator.

A fail safe disc brake prevents turbine and towline spool rotation when the tow reel is not in the reeling mode. A redundant towline cutting system employs impulse cartridges to sever the towline if an emergency cut is required.

The RM-62 Aerial Tow Target Reeling Machine-Launcher is a derivative of the well proven RM-24, RM-30 and RMK-35 reeling machines. The RM-62 was developed to operate on high performance military aircraft and business jets for the purpose of supporting both short towline length air-to-air gunnery and long towline length surface-to-air missile target missions. Powered by an enclosed fixed bladed turbine, it has the load towline capacity and reeling speed of the RMK-19, which it replaces.

Key features

- Semi-automatic, ram-air, turbine-driven reeling machine
- Operates on modern fighter jet aircraft and civil aircraft
- A fail safe disc brake prevents turbine and towline spool rotation when the tow reel is not in the reeling mode
- Up to 40,000 feet towline length
- Two-way reeling system permits recovery and reuse of tow target
- Pilot operated, cockpit control panel with digital display of towline length, tension, machine status and optional scoring capability
- Compatible with numerous aircraft including A-4, A-7, F-4, F-5, F-16, F-15 and any aircraft fitted with standard NATO 30-inch pylon
- Available with centerline or side mounted target launcher
- Redundant towline cutters

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Specifications

Physical	
Length	112.8
Diameter	
Air vents	27.9 in
Turbine	18.4 in
Centerbody	18.0 in
Height	23.0 in
Center of Gravity	50.7 in
Weight	550 + 10 lb
Performance	
Reeling	
Tow Aircraft speed(maximum)	180 - 250 KCAS
Aircraft Launch/Recovery Speed	2,800 - 3,000 FPM
Towline Pay-Out speed (Average)	2,800 - 3,000 ft/min
Towline Reel-In Speed (Average)	
High	2,800 - 3,000 ft/min
Low (user defined)	typically 150 ft/min
Towing	
Tow Aircraft Max Speed	0.95 MACH
Acceleration (Max)	6g
Turbine	
Diameter	18.4 in
Power Rating	62 hp
Towline Load (maximum)	
Towing	4000 lb
Machine Structural load rating	6000 lb
Electrical	
Operating voltage	28 VDC
Tension mechanism circuit	5 VDC
Current (maximum during reeling)	15 Amps



Specification subject to change - TCO Review #XXX

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