



UMARS

UNIVERSAL MOBILE AIRCREW RESTRAINT SYSTEM

FEATURES APPLICATIONS

- Helicopters and fixed wing aircraft that require crew members to move freely within the cabin and near openings in the aircraft.
 - Hangars for maintenance crews working on large aircraft.
 - Ambulance and medical evacuation vehicles/aircraft where personnel must be mobile in order to attend to the patient.
 - Scaffolding to provide fall protection at great heights as well as a smooth, controlled descent.
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- **Motion Damping Level:** Adapts automatically based on dynamic input and crew weight
 - **Motion Damping Engagement:** Attenuates forces exerted on the user.
 - **Payout Length Control:** Adjustable by user - limits excursion during dynamic events
 - **Webbing Slack Prevention:** Reduces risk of entanglement and tripping hazard
 - **Universal Swivel Mount:** Installs and removes in seconds
 - **Attachable to Crew Vest/Harness:** Existing vests can also be adapted for use with UMARS

- **Service Life:** 10 years minimum
- **Weight:** 10.5 lbs - including webbing strap
- **Overall Dimensions:** 8.25" x 5.00" x 4.25"
- **Load Capacity:** 5,000 lbs (2268 kg)
- **Environments:** MIL-STD- 810
- **Vibration/Shock:** MIL-STD- 810
- **Storage Temp:** -60° F to +160° F
(-51° C to + 71° C)
- **Operating Temp:** -40° F to +160° F
(-40° C to + 71° C)
- **Finish:** Black Matte

SPECIFICATIONS



The Wolf team has designed, developed and tested the Universal Mobile Aircrew Restraint System (UMARS), an energy-absorbing restraint system for the mobile aircrew in helicopters and fixed-wing aircraft. UMARS helps to mitigate risks inherent in the operation of civilian and military aircraft where crew must be moving about in order to perform their duties. The restraint device is a reel-based tether system that incorporates an energy-absorbing damping system that is automatically activated whenever the webbing exceeds a threshold velocity, such as would happen during an evasive maneuver, crash, or hard landing. The crewmember is slowed gradually, mitigating the risk of injury and fatality. The webbing payout is also limited in order to restrain the crewmember inside the aircraft at all times. The system was designed, developed, tested by Wolf personnel under contract to the U.S. Air Force and flown during the Patriot Exercise with very favorable results.

Part Number

800-00077-01
800-00077-02
800-00077-03
800-00077-04
800-00083-01
800-00083-02
800-00083-03
800-00083-04
500-00365-*

Description

UMARS RETRACTOR ASSY- 2.65M/104" Webbing
UMARS RETRACTOR ASSY- 2.0M/78" Webbing
UMARS RETRACTOR ASSY- 1.6M/63" Webbing
UMARS RETRACTOR ASSY- 1.5M/59" Webbing
UMARS WEBBING ASSY- 2.65M/104" Webbing
UMARS WEBBING ASSY- 2.0M/78" Webbing
UMARS WEBBING ASSY- 1.6M/63" Webbing
UMARS WEBBING ASSY- 1.5M/59" Webbing
INTERFACE PIN- *Aircraft dependent configuration.