

Miller Twin Turbo™ D-Ring Fall Protection

What is the innovation and why is it innovative?

The Miller Twin Turbo Fall Protection System provides a lightweight, easy-to-use solution for **continuous 100% tie-off** fall protection when working at heights and is especially useful when low fall clearance is an issue. The Twin Turbo System is comprised of a unique D-ring connector, which mounts to the back D-ring of any full-body, fall protection harness, and incorporates two of the lightest self-retracting lifelines on the market today — the TurboLite™ Personal Fall Limiters (PFLs).

Extremely compact and lightweight (as little as 1.9-lbs. each) TurboLite PFLs are self retracting lanyards that provide 6-feet of working capacity. The built-in swivel of the units prevents the lifeline from twisting and binding inside the unit and permits movement in multiple directions for greater mobility. The high-strength impact-resistant nylon housing of the TurboLite units provides maximum durability and protection to the internal components.

The braking mechanism, power spring and shaft are all constructed of high-quality corrosion-resistant stainless steel; and the hub of the unit is a patented shock-absorbing engineered co-polymer. The lanyard webbing has a 1-inch wide Vectran® core and polyester outer jacket that is specially engineered for maximum abrasion resistance and durability. No annual factory recertification is required. The capacity rating of the Twin Turbo system is 400 lbs., total weight of worker and tools.

The Twin Turbo Fall Protection System:

- Eliminates the need for different fall protection equipment to address changes in fall clearance
- Reduces risk because workers at height are using proper equipment when fall clearance changes
- Increases productivity by keeping workers on the job longer
- Keeps safety costs in line as it is competitively priced with shock-absorbing lanyards

What it changed or replaced?

The Miller Twin Turbo System replaces double-legged shock-absorbing lanyards for 100% tie-off fall protection safety and the need to switch-out equipment when fall clearance changes.

Typically, a person working at height wants to use fall protection equipment that is as small and lightweight as possible. The Twin Turbo system provides a safe alternative requiring less fall clearance — inches vs. feet. When using the system, if a fall does occur, the worker is suspended a short distance below the work surface, making rescue easier and safer for both the fallen worker and the rescuer. The Twin Turbo Fall Protection System also eliminates tripping hazards that are often an issue when lanyards are used.

Where and when it originated, has been used, and is expected to be used in the future.

The Miller Twin Turbo Fall Protection System was developed and launched to the safety market in 2008 by Miller Fall Protection (Sperian Protection) in Franklin, PA. The Twin Turbo System is actively being used in many industries and applications by those working at heights.

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