

Gravity® Utility Harness

Full Body Harness – Arc Flash Hazards



*Because every life has a **purpose...***

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The Gravity® Utility Harness provides outstanding arc flash protection for utility company employees and contractors who work at heights. Available in a sleek black design that is both comfortable and durable, this harness is suitable for use in a range of applications. Tested to ASTM F887 requirements, this harness has proven capabilities of protecting a worker against a fall even after exposure to an arc flash.

Features & Benefits

Allows different applications in the field :

- Attachment options:
 - Frontal Connection - Fall arrest, suspension, positioning.
 - Dorsal Connection - Fall arrest, suspension, positioning, restraint.
 - Shoulder Loops - Suspension, confined space entry.
 - Ventral - Suspension.
 - Side D-Rings - Positioning, restraint.
- Waist and leg padding manufactured with flame resistant fabrics (Kevlar® aramid fibre).
- Flame retardant reflective tape.
- PVC Coated buckles and D-Rings provide voltage resistance up to 9kV.
- The harness is constructed from a nylon webbing that has a minimum static strength of 31kN to meet the ASTM F887 standard requirements.
- Built in load indicator identifies if the harness has been subject to a fall or is ready for replacement.
- RFID enabled for easy tracking.
- Suitable for worker capacity up to 140kg.
- ASTM F887 Rated (arc flash)
- Certified to AS/NZS 1891.1:2007 and ASTM F887.

Applications:

- Transmission Towers
- Telecommunications Towers
- Rope Access
- Utilities
- Confined Space
- Rescue
- Elevated work on Transformers



P/N	Size			Rings	Standard Approvals
	S	M	L		
10150939	X			Forged Steel PVC coated	AS/NZS 1891.1:2007 ASTM F887
10150940		X			
10150951			X		

Note: Harness sizing differs slightly from other harnesses in our range. Refer Gravity Utility Harness sizing chart.

Shoulder loops for confined space entry/exit.

Rear attachment point - PVC coated.

Frontal attachment point - PVC coated with leather isolation.

Dual Load indicators.

Waist and leg padding with flame resistant fabrics and threads.

Traceability: RFID - located in the label pack on the inside of the waist pad.

Ventral attachment point positioned at the waist for suspension.

e-Coated Bayonet adjuster buckles with leather isolation.

Reflective tape is made from 100% flame retardant treated cotton fabric.

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To keep workers safe around electrical hazards at heights, such as on bucket trucks, scissor lifts or other elevated areas, MSA Gravity Utility Harness is designed to self-extinguish quickly to prevent melting or dripping in the event of an arc flash.

The comfortable design moulds to the body, allowing workers to wear the harness for hours without having to readjust constantly throughout their shift. The harness is ASTM F887 third-party tested to ensure workers are protected from falls even after an arc flash of 40 cal/cm².

Harness the power of MSA arc flash-rated fall protection.

Understanding “Arc Flash”.

Arc flash - also known as arc fault or arc blast - is a dangerous release of energy created by an electrical fault. An arc flash is a phenomenon where a flashover of electric current leaves its intended path and travels through the air from one conductor to another, or to the ground. The results are often violent; serious injury and even death can occur as a result.

In the United States alone, there are between five and ten arc flash accidents everyday, with more than 3,600 disabling electrical contact injuries each year. What is frightening is that due to the violent nature of an arc flash exposure, when a worker is three metres away from the blast site, fatal burns can still occur. And when an employee is injured, the injury is serious - sometimes even fatal. Extended medical care for those whose lives have been altered by an arc flash incident is often required, sometimes costing in excess of \$1,000,000.

Arc flash can be caused by:

- Dust
- Dropping Tools
- Accidental touching
- Condensation
- Material failure
- Corrosion
- Faulty Installation

Three factors determine the severity of an arc flash injury:

- Proximity of the worker to the hazard
- Temperature
- Time for circuit to break

ASTM F887 Test Requirements

The ASTM F887 standard outlines performance requirements of all protection products for arc flash resistance. One requirement of the standard is that the webbing material must have a 31kN tensile strength, which is higher than typical full body harness webbings found on the market. Additionally, the harness is put through an Electric Arc Performance test that requires the product to self-extinguish within five seconds after being subjected to an arc flash and cannot melt or drip. Lastly, the harness is put through an ANSI Z359 drop test using a 128kg test torso and must be able to meet the drop test requirements (head up and head down test).

Arc flash (AF) Rated Products

When working conditions exist where people are subjected to potential hazards of extreme heat generation that could produce an arc flash, it is critical, particularly when working at heights, to use fall protection systems that not only resist AF exposure, but can perform in a fall situation as well.

AF rated products are designed to resist heat from an electrical arc flash. AF designated products have been tested to the applicable standards to maintain the required level of strength and performance with the ability to resist heat. Always look for the Arc Flash symbol for easy identification.

Before Arc Test



After Arc Test

