



TECHNICAL DATASHEET

DIELECTRIC FULL BODY SAFETY HARNESS

UB102 DE Full Body Harness

STANDARD: CERTIFIED AS PER IS 3521(Part 1): 2021
CONFORMING TO EN 361:2002



Product Introduction:

- A dielectric full-body harness designed for fall protection is manufactured using specially engineered non-conductive components such as dielectric D-rings, buckles, and fittings. Unlike conventional harnesses, it eliminates the risk of electric current flow through the equipment, thereby minimizing chances of electrocution or electrical burns. This makes it an ideal choice for linemen, electricians, and workers operating near energized circuits or high-voltage installations. In addition to ensuring compliance with electrical safety standards, the harness provides enhanced durability, comfort, and a higher safety factor for personnel working in live-line maintenance and electrical operations.

Features:

- Non-conductive dorsal D ring and two webbing sternal loop for fall protection
- Non-conductive buckles minimise the chances of electrocution during electrical operation.
- Fully adjustable chest and thigh strap.
- Ideally positioned sit-strap for extended comfort.



Product Specifications:

Model	: UB102DE
Webbing Material	: AZO free dyed synthetic Polyester
Webbing Width	: 44 +/-1 mm
Webbing Breaking Strength	: 23 kN (Minimum)
Safe Working Load Capacity	: 100 kg
Stitching Thread Material	: High tenacity virgin multifilament polyester
Stitch Thread Colour	: White
Buckles & Rings	: Electrically insulated for 9kV dielectric resistance
Harness Colour	: Red and Black
Weight	: 1.02kg Approx. (Only Harness)

Benefits:

- Non-conductive material:** Non conductive component eliminates the risk of electric current flow during electrical operation.
- Adjustable:** Adjustable chest and thigh strap with non conductive buckles for maximum adjustment.
- Ergonomic design:** Light weight and easy for donning and doffing.



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Applications:

- **Electrical Maintenance & Utility Work:** Used by workers performing maintenance or inspection on electrical substations, power distribution lines, or switchyards.
- **Transmission & Distribution Lines:** Suitable for linemen and utility workers working on overhead power lines where accidental electrical contact may occur.
- **Power Plants:** For workers exposed to live electrical panels, or high-voltage equipment.
- **Industrial Electrical Installations:** Safe for technicians working in manufacturing plants, refineries, or chemical plants where electrical hazards are present.
- **Telecommunication Towers near Power Lines:** Used when climbing or working on structures close to high-voltage lines.
- **Confined Spaces with Electrical Risk:** Ensures safety where workers may come in contact with energized components in restricted areas.

Industries:

The harnesses are essential for creating a temporary anchorage point for maintaining a safe and efficient working environment in any manufacturing, construction, utility related industries are as follows.



Pharmaceutical



Chemical



Automobile



Food & Breweries



Marine



Transportation



Steel



General
Manufacturing



Oil & Gas



Power



Construction



Heavy
Manufacturing



Agriculture



FMCG

Safety Information:

- Full body harness should be use with appropriate fall arrest device with energy absorption facility.
- Users of fall-protection equipment should not exceed 100 kg of total mass (including tools and equipment).

Usage Instruction:

- Inspect before use & check the recommended electrical tolerance level.
- Ensure all buckles, straps, and D-rings are securely fastened.
- Follow manufacturer instructions for donning, adjustment, and maintenance.
- Replace harness immediately if it has been involved in a fall or shows signs of wear.
- Only trained and authorized personnel should use fall protection harnesses.
- Never modify the harness in any way.

Storage:

- Always store the harness in a dry, well-ventilated area. Avoid keeping it in direct sunlight, high heat, or extreme temperatures, as this can weaken materials or cause fading. For added protection, store and transport the harness in its original packaging to prevent from contamination or damage.