




TECHNICAL DATASHEET

ECO1 PLUS Full Body Harness

ADVANCED FULL BODY SAFETY HARNESS WITH ENERGY ABSORBING LANYARD AND SCAFFOLDING HOOK

STANDARD: IS 3521(Part 1): 2021, IS 3521(Part 2): 2021,
IS 3521(Part 5): 2021 

Product Introduction:

- Udyogi full body harness is a safety harness that connects the worker to the fall protection system anchored into the structure they are working on. It is designed to safeguard the user from injury or fatal incident. The harness is usually fabricated from rope, braided wire cable, or synthetic webbing.
- The safety harness is securely attached to a shock-absorbing lanyard, which serves to regulate deceleration and prevent potentially severe G-force injuries upon reaching the end of the rope.
- By donning the harness, the risk of injury resulting from a fall is significantly diminished. The harness enables the user to secure themselves to a stationary object, thereby ensuring that they will not come into contact with the ground in the event of a potential fall.

Features:

- The harness comes with one dorsal D-ring and Two textile chest attachment loops.
- Available with size adjustment straps only at chest and thighs.
- In built Fall Indicator to facilitate easy inspection in case a fall has occurred ever.
- Attached with double high strength light weight Energy Absorbing lanyard with SH-60 scaffolding hook
- Built in dual colour Reflective liner type webbing for easy orientation

➤ **Special Feature:** This model is available with

- 1 Set lightweight Suspension trauma, specially designed to help relieve the negative effects of Suspension Trauma during (prior to rescue) post- fall suspension.
- Specially designed Lanyard keepers on both side on chest for safely attaching the free connector end of forked lanyard as well as to park the lanyard when not in use



Benefits:

- **Protection from Falls:** A safety harness is an essential tool in preventing the workers from fatal accidents such as falling to the ground from working at height in workplaces.
- **Reduce the risk of injuries:** The harnesses distribute wearers' weight evenly, reducing the pressure on their back, legs, and feet, and can also help to prevent falls.
- **Reflective webbing:** The high visibility of the webbing speeds up the rescue efforts and protect workers from horrible collisions.
- **Energy Absorber:** A lanyard needs a shock absorber when it will be used for fall arrest as it helps to absorb the kinetic energy that is created immediate after a freefall.



Product Specifications:

Model	: ECO1 PLUS
Webbing Material	: Polyester
Webbing Width	: 44 +/-1 mm
Webbing Breaking Strength	: 22 kN
Safe Working Load Capacity	: 100 kg
Stitching Thread Material	: High tenacity virgin multifilament polyester
Stitch Thread Colour	: White
Metal Components	: High quality alloy steel, zinc plated, free from any sharp edges
Harness Colour	: Black and Green
Lanyard Materials	: Polyester Braided Rope (Kernmental)
Weight	: 2.5 kg Approx.

Applications:

- **Fall Arrest:** Fall arrest harnesses are designed for use in situations involving elevated heights, where workers are exposed to hazards that may involve a free fall. These harnesses, which are a crucial component of personal protective equipment (PPE), typically feature a back dorsal D-ring, which is a critical component of the harness's safety design.
- **Working at Height:** Harnesses are used whilst working at heights, they are secured to an anchor point for preventing falls from heights that can result in serious injuries and even fatalities, the safety harness is one of the most effective ways to prevent them.

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 as follow.



Safety Information:

- Energy absorbing lanyard should be used together with Full Body Harness as connecting subsystem in PFAS as per latest IS standard.
- Users of fall-protection equipment should not exceed 100 kg of total mass (including tools and equipment).

Usage Instruction:

- **Inspection:** Harnesses should be inspected in every 6 months' interval. Damaged or defective harnesses should be discarded from service immediately after inspection.

Storage:

- Always harness should be stored in a dry area away from ultra violet rays. It Should not store in direct / high heat or sunlight as this may distort the colour. The sling can be stored and transported in their original cartons to avoid corrosion due to atmospheric moisture, excessive heat or cold.