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- › [Irudek](#) /
- › [Irudek Expert Pro 500 Fall Arrest Harness User Manual S-M](#)

Irudek 100403400033

Irudek Expert Pro 500 Fall Arrest Harness User Manual

Brand: Irudek

Model: Expert Pro 500 (100403400033)

1. INTRODUCTION AND PRODUCT OVERVIEW

This manual provides essential instructions for the safe and proper use, maintenance, and storage of the Irudek Expert Pro 500 Fall Arrest Harness. This harness is designed for personal fall protection, work positioning, and suspension applications. Adherence to these instructions is crucial for user safety and product longevity.

The Irudek Expert Pro 500 features automatic aluminum buckles for quick and easy adjustment, a pectoral strap, and elastic shoulder bands for enhanced comfort. Its versatile design makes it suitable for various work-at-height scenarios. The harness complies with European standards EN 361 (Fall Arrest Systems), EN 358 (Work Positioning Systems), and EN 813 (Sit Harnesses).



Figure 1: Front view of the Irudek Expert Pro 500 Fall Arrest Harness. This image displays the harness's front, highlighting the automatic aluminum buckles on the legs and waist, the pectoral strap, and the overall ergonomic design for fall protection and work positioning.

2. SETUP AND PRE-USE INSPECTION

Before each use, a thorough inspection of the harness is mandatory. Ensure all components are in good working order and properly adjusted for your body size.

2.1 Pre-Use Inspection Steps:

1. **Webbing:** Inspect all webbing for cuts, fraying, excessive wear, discoloration, or chemical damage. Pay close attention to stitching patterns for any loose or broken threads.
2. **Buckles and Adjusters:** Ensure all automatic buckles and adjusters operate smoothly and securely. Check for deformation, cracks, corrosion, or sharp edges.
3. **D-Rings and Attachment Points:** Examine all metal D-rings and attachment points for cracks, deformation, corrosion, or excessive wear. Ensure they are free from obstructions.
4. **Labels:** Verify that all product labels, including the serial number and manufacturing date, are legible and securely attached.
5. **Overall Condition:** Confirm the harness is clean and free from dirt, paint, or other foreign substances that could compromise its integrity.

Warning: If any damage or defect is found during inspection, immediately remove the harness from service and tag it as "UNUSABLE." Do not attempt to repair the harness yourself.

2.2 Donning the Harness:

1. **Hold by Dorsal D-Ring:** Hold the harness by the dorsal (back) D-ring, allowing the straps to fall naturally.
2. **Shoulder Straps:** Slip your arms through the shoulder straps as if putting on a jacket. Ensure the webbing is not twisted.
3. **Leg Straps:** Bring the leg straps between your legs and connect them to the automatic buckles on the waist belt. Ensure they are not twisted.
4. **Pectoral Strap:** Connect the pectoral (chest) strap and position it across your chest, approximately mid-chest height.
5. **Adjust Straps:** Adjust all straps (shoulder, leg, waist, pectoral) until the harness fits snugly but comfortably. There should be no slack, but movement should not be restricted. The dorsal D-ring should be positioned between your shoulder blades.



Figure 2: Back view of the Irudek Expert Pro 500 Fall Arrest Harness. This image illustrates the dorsal attachment point (D-ring) and the arrangement of the back straps, crucial for proper donning and adjustment.

3. OPERATING AND INTENDED USE

The Irudek Expert Pro 500 harness is a multi-purpose personal protective equipment (PPE) designed for various applications in work at height. It is crucial to understand the specific attachment points for each intended use.

3.1 Fall Arrest:

- Use the dorsal (back) D-ring or the sternal (front) attachment points (if applicable and compliant with EN 361) for connecting to a fall arrest system (e.g., lanyard with energy absorber, retractable lifeline).
- Ensure the anchor point is rated for fall arrest and located above the user to minimize fall distance.
- Always maintain a clear fall path below the work area.

3.2 Work Positioning:

- Utilize the lateral D-rings on the waist belt for connecting to a work positioning lanyard.
- Work positioning systems are designed to support the user at a work location, allowing hands-free operation. They are not fall arrest systems; a separate fall arrest system must always be used in conjunction with work positioning when there is a risk of a fall.

3.3 Suspension (Sit Harness Function):

- The ventral (front) attachment point, often a textile loop or a specific D-ring, is used for suspension or rope access applications (compliant with EN 813).
- Ensure proper training and additional equipment (e.g., descenders, ascenders) are used for suspension activities.

Important: Always follow local regulations, industry best practices, and the instructions provided with any connecting devices (lanyards, connectors, anchor points) used with this harness. Only trained and competent persons should use this equipment.

4. MAINTENANCE AND STORAGE

Proper maintenance and storage are essential to ensure the continued safety and performance of your Irudek Expert Pro 500 harness.

4.1 Cleaning:

- Clean the harness with a mild soap solution and lukewarm water (max 30°C / 86°F).
- Use a soft brush or sponge to gently scrub soiled areas.
- Rinse thoroughly with clean water to remove all soap residue.
- Allow the harness to air dry completely in a shaded, well-ventilated area, away from direct sunlight or heat sources.
- Do not use harsh chemicals, solvents, or abrasive cleaners.

4.2 Storage:

- Store the harness in a cool, dry, dark place, away from direct sunlight, UV radiation, extreme temperatures, humidity, and corrosive substances.
- Ensure the harness is clean and completely dry before storage.
- Avoid storing the harness near sharp objects or in areas where it could be crushed or damaged.

4.3 Periodic Inspection:

In addition to pre-use inspections, the harness must undergo a thorough periodic inspection by a competent person

at least every 12 months, or more frequently depending on usage and environmental conditions. Record all inspection dates and results.

The maximum service life of the harness is typically 10 years from the date of manufacture, but this can be significantly reduced by heavy use, damage, or exposure to harsh conditions. Always refer to the specific service life indicated on the product label.

5. TROUBLESHOOTING

This section addresses common issues that may arise during the use of your Irudek Expert Pro 500 harness.

- **Harness feels uncomfortable or restrictive:**
 - Ensure all straps are correctly adjusted for a snug but comfortable fit.
 - Check that no webbing is twisted.
 - Verify you have the correct size harness (S-M in this case).
- **Buckles are difficult to operate:**
 - Inspect buckles for dirt, debris, or damage. Clean if necessary.
 - Ensure webbing is correctly threaded through the buckles.
- **Signs of wear or damage:**
 - If you observe any cuts, fraying, deformation, corrosion, or other damage during inspection, immediately remove the harness from service.
 - Do not use damaged equipment. Contact Irudek or a certified service center for assessment.
- **Harness has been subjected to a fall:**
 - Even if no visible damage is apparent, a harness that has arrested a fall must be immediately removed from service and destroyed. The structural integrity may be compromised.

If you encounter any issues not covered here, or if you are unsure about the safety of your harness, discontinue use and consult a competent person or the manufacturer.

6. SPECIFICATIONS

Feature	Detail
Model Number	100403400033
Brand	Irudek
Product Name	Expert Pro 500 Fall Arrest Harness
Size	S-M
Compliance Standards	EN 361, EN 358, EN 813
Material Type	Polyester webbing, Aluminum buckles
Package Dimensions	44.4 x 31.9 x 18.2 cm
Item Weight	2.5 kilograms

Feature	Detail
Manufacturer	Irudek
Date First Available	April 3, 2023

7. WARRANTY INFORMATION

Irudek products are manufactured to high-quality standards. For specific warranty terms and conditions applicable to your Irudek Expert Pro 500 harness, please refer to the warranty card included with your product or visit the official Irudek website. Generally, warranties cover manufacturing defects under normal use and service. Damage resulting from misuse, improper maintenance, unauthorized modifications, or exceeding the product's rated capacity is typically not covered.

Retain your proof of purchase for any warranty claims.

8. SUPPORT AND CONTACT

For further assistance, technical support, or inquiries regarding your Irudek Expert Pro 500 Fall Arrest Harness, please contact Irudek directly through their official channels.

- **Official Website:** www.irudek.com (Please check for regional websites or contact information)
- **Customer Service:** Refer to the contact section on the Irudek website for phone numbers or email addresses specific to your region.

Always provide the product model number (100403400033) and serial number (found on the product label) when contacting support for efficient service.

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This document is for informational purposes only and does not replace proper training or professional guidance.

Related Documents - 100403400033

	<p>IRUDEK Fall Arrest Harness User Manual</p>
	<p>Comprehensive user manual for IRUDEK fall arrest harnesses, detailing safety features, usage instructions, maintenance, and technical specifications. Covers various models like Light Plus, Expert, Wind, Gravity, and Dielectric, adhering to EN standards.</p>



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