

Instruction manual for Full Body Harnesses

DYNAMIC 1, DYNAMIC 2, DYNAMIC TORONTO PREMIUM and TORONTO FLEX

certified according to EN 361

Dynamic 1

Classic



Classic-Automatic



SCAFF



Photo: DYNAMIC 1 Classic

Dynamic 2

Classic



Classic-Automatic



SCAFF



Photo: DYNAMIC 2 Classic

Dynamic Toronto Premium

Classic



Classic-Automatic



Automatic



Power & Comfort



Evo



Photo: DYNAMIC TORONTO PREMIUM Classic

Toronto Flex

Classic



Classic-Automatic



Photo: TORONTO FLEX Classic-Automatic

Thank you for choosing EDGE SAFETY EQUIPMENT! You have purchased a high quality product that will reliably protect you and will be your companion for a long time when working at heights and depths.

This manual must be read and understood before using the product! This product will be used with other equipment (components) thus forming a system for working at heights. Please refer to the instruction manual of each component in your system for compatibility and correct use! Following these instructions accordingly is essential for your safety. Failure to do so can result in serious or even fatal accidents! Keep these instructions together with the product, accessible to all users, so they can consult them whenever is needed!

WARNING!

These instructions are a basic comprehensive guide to the safe use of the purchased equipment. They contain general information about the product, intended to help the user, but cannot cover all the situations that may occur in the daily activities and cannot in any case replace the specialized training courses for safety at heights. This PPE against falls from heights can only be used by well-trained users, who are familiar with the relevant legislation and who have successfully completed a special safety training course for working at heights.

WARNING!

For works with risk of falling from heights or in depths, a risk assessment must be carried out in advance in accordance with current regulations and legal provisions (EN standards or specific national rules) that will provide adequate measures for safety and rescue!

WARNING!

Instructions for use are updated when technical or legislative changes occur. The latest version of the instructions overwrites previous versions and is the only valid version. Please make sure you follow the instructions of the most recent version. You can download the most recent instructions from our website www.edge-safety.eu by accessing the section of each product. For help or additional questions, please contact us at sales@edge-safety.eu or Tel. +31.118.745760.

FIELD OF USE

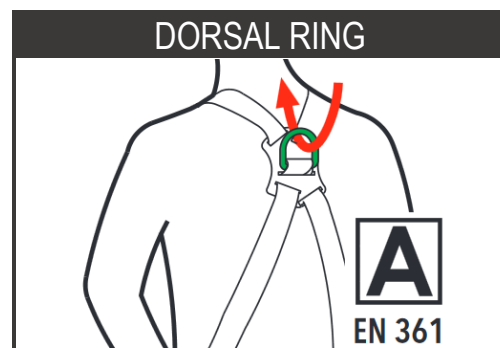
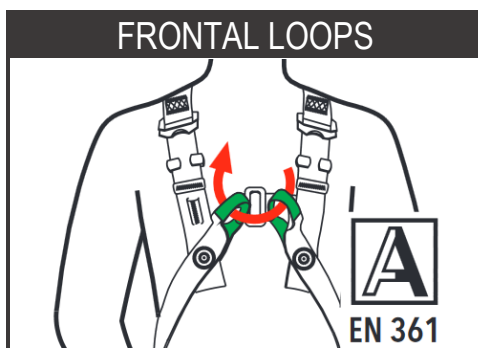
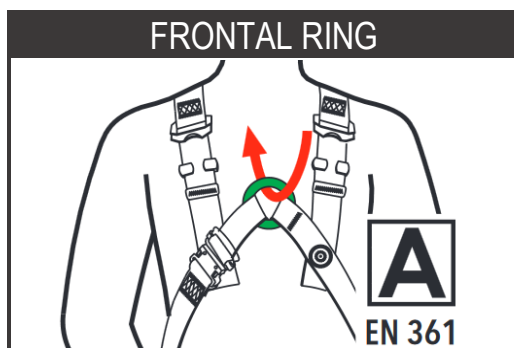
Along with other tested and certified components, the Full Body Harnesses are used in fall arrest systems. The purpose of this system is to stop the free fall of the user, absorbing most of the shock and distributing the remaining force evenly, while holding the user's body in a proper position until he or she is rescued.

The product must be used exclusively as a PPEaF (Personal Protective Equipment against Fall), in usual environments with temperatures between -30°C and +50°C, without potentially explosive atmospheres, far away from flames, sparks or hot metal splash. Avoid contact with sharp edges, electricity, chemicals, corrosive solutions and substances, excessive heat, oils, paints or any other contaminants. The structures used for anchoring have to meet the requirements of EN 795-2012, must have NO sharp edges and must be capable to withstand minimum 12 kN. The anchor point must be located as high as possible above the user and as close as possible to the vertical axis of the user's position, thus reducing the fall distance and preventing pendulum accidents. The minimum free space below the user (fall clearance) must be ensured to prevent hitting the ground or any obstacles while the fall is arrested.

DESCRIPTION

EDGE Full Body Harnesses are made of 45 mm special high tensile webbings. The webbings used for the EVO, Power&Comfort series are treated against oil and dirt impregnation. The anchor rings and the buckles are made of high tensile steel or high tensile aluminium alloy. The buckles used for opening/closing the straps can have manual locking (classic type) or automatic locking (click type). The harnesses can also be equipped with different types of fall indicators.

A Full Body Harness is comprised of shoulder straps, chest straps and leg straps. The dorsal attachment ring (marked with "A" symbol) is located at the intersection of the webbings, between the shoulder blades and is available on all the presented models. The frontal attachment point, located in the chest area, can have various configurations: DYNAMIC TORONTO PREMIUM and TORONTO FLEX models are fitted with a single frontal ring (marked „A“). The model DYNAMIC 2 is fitted with two textile loops (marked „A/2“) which need to be connected together in order to be used as a fall arrest attachment point. Harnesses belonging to the EVO and Power&Comfort series are fitted with paddings for legs and shoulders for improved comfort.



The rings and textile loops marked with "A" or „A/2“ are the only attachment points that can be used for arresting a fall! Only to these points it is allowed to connect one of the following fall arrest equipment:

- Retractable type fall arresters (EN 360)
- Guided type fall arresters including a flexible anchor line (EN 353-2)
- Guided type fall arresters including a rigid anchor line (EN 353-1)
- Descent and rescue devices (EN 341 and EN 1496)
- Energy absorbing lanyards (EN 354 + EN 355)

Dorsal extension (*available on „SCAFF“ versions)

The dorsal extension strap can be used only if the D-ring at the free end is connected to a retractable type fall arrester (EN360) or to an energy absorbing lanyard (EN 354 + EN355). The length of the energy absorbing lanyard used **must not exceed 1,5 m !**

All harnesses have a minimum breaking load of 15 kN. The harnesses were tested additionally with a dummy weighing 150 kg, being subjected to greater loads than required by the actual EN 361 standard. **Thus, these harnesses can be used by persons weighing up to 150 kg (including equipment).**

!!! WARNING !!! In this case the shock absorbing lanyard used (or other fall arrest device) must be approved for higher user weight of 150 kg! The energy absorber must also be capable to offer the same performance and to reduce the shock force below 6 kN, in case of a fall, while working with higher user weight!

TORONTO FLEX: these versions are manufactured using high tensile webbings but also integrates some semi-elastic webbings which improves comfort and freedom of movement.

WARNING! Before use, the integrity and compatibility of the equipment must be checked. If damage is identified, the harness must be immediately withdrawn from use! If there is any doubt regarding the condition of the equipment it must be sent to the manufacturer or to an authorised representative of the manufacturer for a professional evaluation.

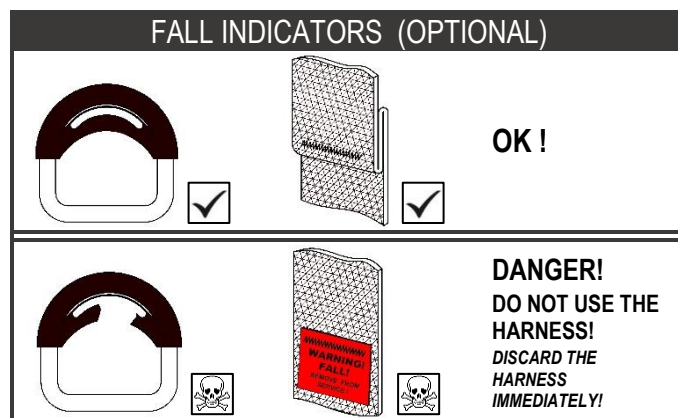
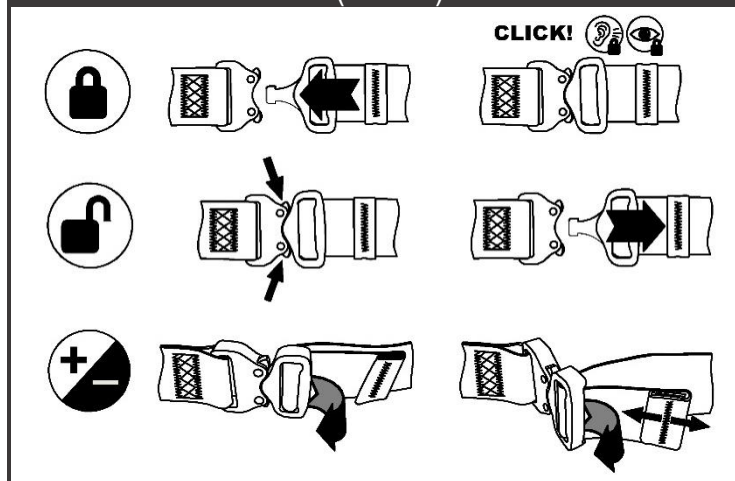
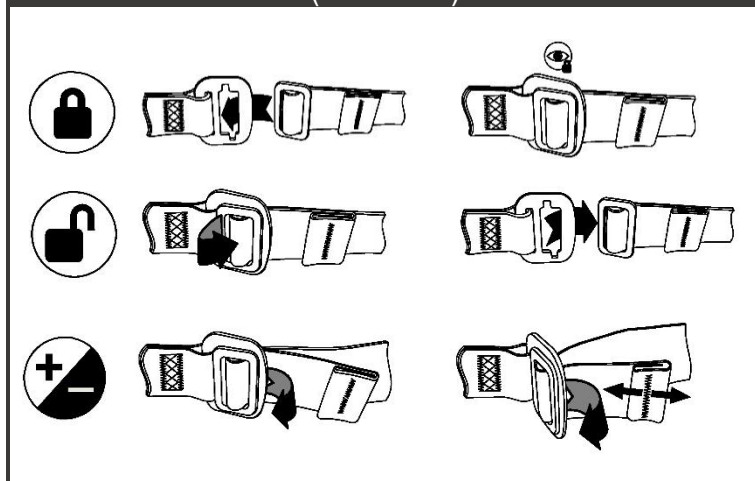
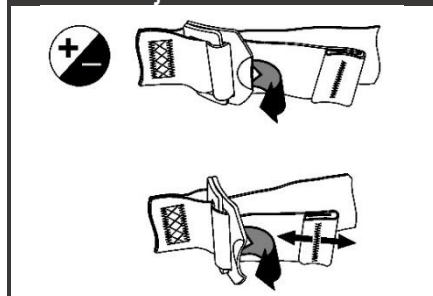
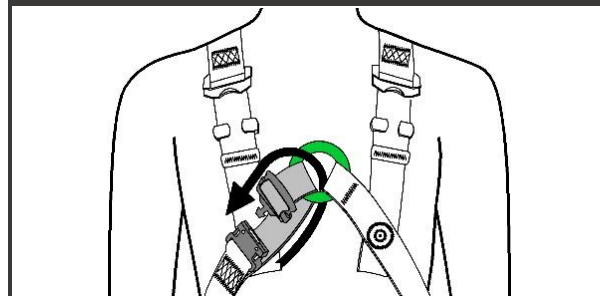
WARNING! This product is developed as a Personal Protective Equipment against Fall (PPEaF). Bringing modifications to it or assigning other uses are strictly forbidden! Each user shall use his own PPEaF as well as his own rescue equipment. The user must know the performances and limitations of his equipment! In case of uncertainty regarding the equipment seek advice from the manufacturer or distributor.

The harness must be immediately removed from service if:

1. The marking/label is missing or is unreadable.
2. Damage has been identified (incisions, worn seams, discoloration, hardened or thinned areas, burns, rusted or deformed metal parts, defective buckles) or if any abnormalities of the parts or structure have been found.
3. Contact with paints or unknown chemicals had occurred (irreversible contaminations).
4. The harness was involved in a fall arrest or had been subjected to heavy loading.
5. The integrity of the equipment is questionable and the inspection log is incomplete or missing.
6. The equipment was in service longer than 10 years.

Fitting the harness:

1. Pick up the harness by the dorsal ring and swing it gently up and down to reposition the straps and to ease untangling.
2. Open all buckles then put the harness over the shoulders (like dressing a vest).
3. Ensure there are no twisted straps then, one by one, close the chest, waist and legs buckles.
4. The chest buckle must be closed through the chest ring (check the images below).
5. Each leg strap will be passed between the legs, from back to front and the buckles will be closed with their corresponding counterpart.
6. Check if the straps are positioned correctly and adjust the length for each one.
7. Ensure that all buckles are closed and locked, that there are no twisted straps and all free ends of the straps are held using the elastic rings or rubber sliders provided on the harness.
8. A harness fitted correctly has the dorsal ring located in the middle, between the shoulder blades and the frontal ring located in the lower half of the sternum.
9. The straps will be tightened so that one or two fingers can slide in between the body and the strap (check the images below). If the adjustment is too tight the harness will be uncomfortable and the user will have difficulties working. Insufficiently adjusted or loose straps can lead to serious or even fatal accidents!
10. Before working, it is recommended to perform a quick hanging test from a small and safe height, in order to check the adjustments and the comfort of the harness.

**Automatic (CLICK) buckles****Manual (CLASSIC) buckles****Adjuster buckle****Chest buckle****Checking straps adjustment**

The **service life**, under normal conditions of use is 6-8 years, from the date of the first use and can reach max. 10 years(*). The date of first use must be written in the inspection log! The storage of new, unused products, under optimal conditions (dark, no high humidity, constant temperature) should not exceed 2 years. If the storage time has exceeded 2 years the extra time spent will be subtracted from the service life.

(*) harnesses belonging to a single user, which were subject to periodical inspections by experts and recorded in the Inspection Log, carefully treated and maintained, that were stored in accordance with regulations, were not in contact with oils, greases or aggressive chemicals, were not used extensively, can be hold in service for up to 10 years. Intensive use, heavy and stressful working conditions, improper application and faulty maintenance can reduce or even end the service life of the equipment. Some events, such as exposure to severe heat, exposure to corrosive chemicals and use over sharp edges can shorten the service life to a single use! The service life will be ended if any of the facts presented in the previous chapter has been identified.

Repairs or any other modifications can be performed only by the manufacturer! Any repairs, modifications or additions (even minor ones) performed by anyone else are strictly forbidden, lead to the loss of the manufacturers guarantee and any responsibility related to this product!

