



HACA

## **Fall protection runner -MultiSafe- with three safety functions, swivel and damping element**

**925,00 €\***

Prices excl. VAT plus shipping costs

**Standard**

Standard

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**Product number: 0529740000**

# Properties

**Din:** DIN EN 353-1: 2018 · CE 0158

**Material:** Aluminum / Stainless Steel

## Product information "Fall protection runner - MultiSafe- with three safety functions, swivel and damping element"

According to DIN 18799:2019, at least two fall protection runners must be kept ready at the scene of the incident. Before opening the fall protection runner, the user must secure himself against falling by means of a retaining rope.

**HACA MultiSafe Features Type 0529.74, 74.30 and 74.50**

### Handling and function

The fall protection rotor has three independently operating safety functions (triple redundant). Each one reacts to different triggers caused by a possible hazard to the user and brings the fall protection runner to a standstill. If the horizontal or speed-dependent snapping function is primarily addressed, the vertical one is always triggered secondarily as a second redundancy!

#### 1. Catch function: Vertical catch function

In the event of a fall, the user, who is tied to the safety harness by the carabiner, moves the brake eccentric in the fall protection runner. As a result, the fall protection runner jams on the rail within a few millimetres like pliers. The runner's intervention and stop are not abrupt, as is the case with fall protection systems, for example, whose running rails are equipped with trapping beads or catch rungs at certain intervals, but are delayed. This reduces the impact loads acting on the person falling. After relieving the load on the fall protection runner and the associated "clamp opening", this safety function is immediately available again without restriction.

**At this moment, the runner is immediately ready for use again with all protection systems.**

#### 2. Catch function: Horizontal tension limitation

The horizontal tension limitation intervenes automatically and initiates a braking process if the user threatens to tip backwards. This prevents the user from rolling over. The belt to be used must have the characteristics described on page E.01. From this position, the climbing position can be reached again at any time. After relieving the load on the fall protection runner, the safety devices tighten again and

are immediately available again without restriction.

**At this moment, the runner is immediately ready for use again with all protection systems.**

### **3. Catch function: Speed-dependent catch function**

A friction wheel is used to constantly check the speed during use of the fall protection runner. If the fall protection runner reaches a speed that is greater than the usual climbing speed, the fall protection runner automatically experiences a deceleration. This delay initiates the vertical snapping function. After relieving the load on the fall protection runner, the safety devices tighten again and are immediately available again without restriction.

**At this moment, the runner is immediately ready for use again with all protection systems.**

#### **Rotor:**

The friction wheel of the speed-dependent catch function is equipped with two redundant running surfaces (see detail (1)). Furthermore, a wear mark is incorporated, which appears by a second surface color (see detail (2)). This means that wear and tear and the time of change are clearly recognizable. The ascent and descent with this runner relieves arms and legs. The user leans into the belt, thus achieving the horizontal pulling force necessary for the free running of the runner. The fall protection runner can also be used to drive around curves (wheel min. 750 mm). In the reverse direction, manual triggering is required.

#### **HACA carabiner with TRI SAFE closure:**

The snap hook of the fall protection runner is secured with a HACA TRI SAFE bolt (see detail (3)). This opening mechanism closes automatically and must be opened by three will-dependent axial rotation and sliding movements for the safety of the user.

The damping element (see detail (4)) regresses to its original shape after a shock load. It does not tear destructively like a coil energy absorber or deformation element to absorb the impact force. This has the advantage that the connection between the user and the fall protection runner is not unfavorably extended.

**At this moment, the runner is immediately ready for use again with all protection systems.**

The swivel swivel (detail (5)) facilitates the change of direction from vertical to horizontal and allows connection to belts with horizontal and vertical eyelets.

#### **Accessories:**

Protective case for fall protection runner side E.12, tool bag E.16

Can be used on all HACA fall protection profiles

For radius at least 750 mm

CE certified as fall protection according to DIN EN 353-1: 2018, also tested according to ANSI/ASSE 2359.1-2007 and CSA Z259.2.4-15.

Excellent running characteristics

Has 3 catch functions: 1. Catch function: In the event of a vertical fall, the 1st catch function catches 2. Catch function: Due to an automatic horizontal pull limit, the device catches in the event of a fall backwards (fall-back and sit-back) 3. Catch function: A centrifugal brake triggers a braking impulse at high fall speed and activates catch function 1.

Approved for people from 40 kg to 150 kg

The maximum impact force required in DIN EN 353-1 with a steel weight of 100 kg is 17 % lower at 5 kN

Maximum safety, as the runner is fully usable again after a fall load. This also ensures an immediate subsequent fall

The snap hook is equipped with a swivel

The new carabiner, which has been installed since the end of 2016, brings a weight saving of ~ 10 % and has a larger mount, see E.06 for details

Particularly smooth, therefore no fatigue and low strain when climbing

Very good running characteristics due to all-round roller guidance and long center distances


Contact with the guide rail is made via ball bearing rollers

Correct insertion into the fall protection rail is guaranteed

When ascending and descending, the arms are relieved

Can be used up to 15° supine position and 20° side position

Also suitable for horizontal fall protection rails

| Preview   | Product    | Price                                     | Buy   |
|---|------------|---|---|
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