

USER INSTRUCTION MANUAL

Applicable to Retractable Fall Arrester	: ZMIC02
Manufacturer	: Techware Pty Ltd, 03 9369 7000, www.maxisafe.com.au
Certification Body	: SATRA Technology Europe Ltd, Bracetown Business Park, Clonee, Dublin D15 YN2P Ireland (Notified Body 2777)
Ongoing Assessment Body	: SGS United Kingdom Ltd., Unit 202B, Worle Parkway, Weston-super-Mare, BS22 6WA, UNITED KINGDOM. (Notified Body 0120)

The Retractable Fall Arrester is classed as a Personal Protective Equipment (PPE) by the European PPE Regulation EU 2016/425 and has been shown to comply with this Regulation through the Harmonized European Standard EN 360:2002.

CAREFULLY READ THESE INSTRUCTIONS BEFORE USING THIS RETRACTABLE FALL ARRESTER

This Retractable Fall Arrester is designed to minimise the risk of/provide protection against the danger of falling from heights. However, always remember that no item of PPE can provide full protection and care must always be taken while carrying out the risk related activity.

Note: The user is advised to keep the user instructions document for the life of the product.

PERFORMANCE AND LIMITATIONS OF USE

The equipment has been tested in accordance with EN 360:2002 & as per VG11 RFU# 11.060 and has achieved the following performance levels

EN 360:2002 test	Result/Comment
Clause 4.1 Design & Ergonomics Clause 4.2 Materials & Construction Clause 4.4 Static Strength (EN 360:2002) Clause 4.5 Dynamic Performance (EN 360:2002) Clause 4.7 Corrosion Resistance (EN 360:2002)	Achieves required performance as stated in EN 360:2002 (PASS). Lanyard free from sharp or excessively abrasive surface (PASS). No unnecessary features which add significantly to overall mass (PASS). Lanyard end terminated with a loop, for connection to harness and fall arrest system (PASS). Lanyard meets static strength requirement (PASS). 15kN sustained for 3 minutes without release (PASS). When tested with a test mass of 140 kg, the Arrest force <6.0kN, Arrest distance <2.0m (PASS). Corrosion test in accordance with ISO 9227:1990-24 hours (PASS).
AS PER VG11 RFU # 11.060	Result/Comment
1. Dynamic Performance : a. Perpendicular to the edge b. Lateral offset of 1.5 mtr 2. Dynamic Strength a. Perpendicular to the edge b. Lateral offset of 1.5 mtr 3. Static Strength after each Dynamic Strength test	100 Kg mass held Breaking force ≤6kN Breaking distance less than 2 mtr 100 Kg mass held f= 4.5 kN (Textile) 3 mints

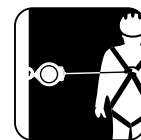
POSSIBLE USAGE : This Retractable Fall Arrester can be used as a part of a fall arrest system or as a part of a restraint system. If using as a part of fall arrest system, a suitable anchor point (above the user's head. at least 12 kN) shall be used. Attachments to the anchor points and other equipment shall be made using oval Karabiners conforming to EN 362. Material of the Lanyard is Technora webbing width 21.0mm.

It can be used on the sharp edges having radius ≥ 0.5mm

HOW TO USE :

STEP 1 : Connect the swivel eye at the top of the Retractable Fall Arrester to a suitable anchorage point situated above the user's head using Karabiners as per EN 362 & ensure the Karabiner is locked.

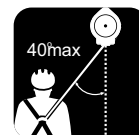
STEP 2 : Now connect the swivel hook of the equipment to the attachment element of your full body harness and ensure that it is locked. You are now safe to move up & down in normal speed. In the event of a fall, the Retractable Fall Arrester locks & also minimizes the impact forces on the body of user.



* Micron can also be used in horizontal direction.



* It can be used where the Anchorage point is available at foot Level also.



Follow Step 1 & Step 2 to use this equipment in vertical condition.

Follow Step 3 & Step 4 to use this equipment as single or double Lanyard.

STEP 3: Connect the swivel eye of the retractable fall arrester to the dorsal attachment of the full body harness with the help of special connector PN 170 and PN 169 & ensure the connector is locked.

STEP 4: Now connect the snap/scaffold hook at the termination end of the device to the structure and ensure that it is locked. You are now safe to move up & down in normal speed. In the event of a fall, the Retractable Fall Arrester locks & also minimizes the impact forces on the body of user. Similarly, it can be used where the anchorage point is available at foot level by just connecting the swivel eye of the retractable to the anchorage point and the hook at termination to the dorsal attachment of harness.



WARNING:

1. Ensure the medical condition of the user does not affect his safety in normal and emergency use.
2. The Retractable Fall Arrester shall only be used by a person trained and competent in its safe use.
3. A rescue plan shall be in place to deal with any emergencies that could arise during the work.
4. Do not make any alterations or additions to the Retractable Fall Arrester without the manufacturer's prior written consent and that any repair shall only be carried out by personnel trained by the manufacturer & duly authorized by him.
5. The Retractable Fall Arrester shall not be used outside its limitation, or for any purpose other than that for which it is intended.

ADVICE & INFORMATION

- The Retractable Fall Arrester should be the personnel property of the user.
- Ensure that the Retractable Fall Arrester is compatible with other items when assembled into a system.
- Usage with other un-compatible items may be dangerous & hazardous as the safe function of one item may be affected or interferes with the safe function of another.
- The user should carry out a pre-use check of the Retractable Fall Arrester, to ensure that it is in a serviceable condition and operates correctly before it is used.
- The pre-use check shall involve checking of any wear or abrasion on webbing and sign of corrosion, if any on metal parts or any breakage of the plastic casing.
- Withdraw from use immediately if there is any doubt about its safe condition or if it has already arrested a fall, the equipment shall not be used again until confirmed in writing by a competent person that it is acceptable to do so.
- Ensure that the strength of the anchor device is greater than 12kN.
- Use karabiner conforming to EN 362 for connecting to the anchor points.
- It is advisable to use the dorsal attachment D-Ring of the harness for connection to the Retractable Fall Arrester. However if it is not possible for any reason, the chest attachment element may also be used.
- It is essential to verify that a minimum 4ms height of free space is available between the Retractable Fall Arrester & the ground at the work place, so that in case of a fall, there will be no collision with the ground or other obstacle in the fall path.
- Following conditions may be hazardous & may affect the performance of Retractable Fall Arrester:-
 - (a) Extreme temperatures
 - (b) Trailing or looping of Lanyards over sharp edges.
 - (c) Extreme acidic or basic environments.
 - (d) Abrasive or sharp edge structures which can damage the equipment.
 - (e) Pendulum falls.
- Ensure that manufacturer's packing is used during transportation to prevent damage. In case original packing is not available, use polybag which is sealed to prevent moisture.
- If used properly, the Retractable Fall Arrester has a life of 10 years from the date of manufacture unless subjected to severe abrasions or extreme temperature/climatic condition.
- It is essential for the safety of the user that if the product is resold outside the original country of destination, the reseller shall provide instruction for use, for maintenance, for periodic examination and for repair in the language of the country in which product is to be used.

I. Additional Information as per VG 11

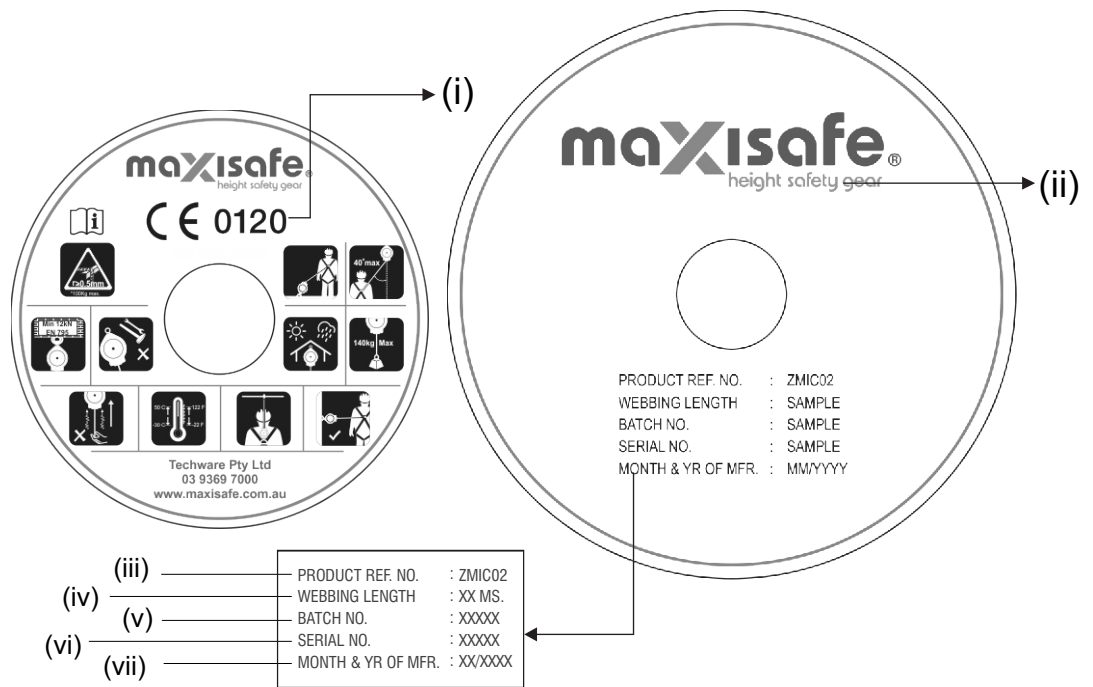
- a. It is possible to use a horizontal retractable type fall arrester over an edge type A
- b. It is recommended to avoid the loading of the retractable type fall arrester over edges.

II. Additional Information as per VG 11

- a. The retractable type fall arrester was tested also for horizontal use and a drop over a Type A edge has been successfully tested.
Type A edge definition: A steel edge with a radius of $r = 0.5 \text{ mm}$ and without burrs was used for the test. Due to this test, the equipment may be used over similar edges, as can be found e.g. at rolled steel profiles, at wooden beams or at a clad, rounded roof parapet. However, the following shall be considered when the equipment is used in a horizontal or transverse arrangement and a risk of a fall from a height over an edge exists:
1. If the risk assessment carried out before the start of the work shows that the edge is very "cutting" and / or "free of burrs" (such as in case of an unclad roof parapet, a rusty steel girder or a concrete edge)
 - Relevant measures shall be taken before the start of the work to prevent a drop over the edge or, before the start of work, an edge protection shall be mounted or
 - the manufacturer shall be contacted.
 2. The anchor point should only be situated at the same height as the edge at which a fall might occur or above the edge.
 3. Allow adequate clearance of minimum 4 meters below, in order to avoid collision with the adjacent structures or the ground in the event of a fall.
 4. To attenuate a drop ending in a pendulum movement, the working area or lateral movements to both sides of the centre axis shall be limited to a maximum of 1.50 m. In other cases, no individual anchor points, but, e.g., type C or type D anchor devices in accordance with EN 795:2012 shall be used.
 - a. The SRL can also be used with Type C anchor device.
 - b. The deflection of the anchor device shall be taken into account when determining the clearance required below the feet of the user. To that effect, the indications specified in the instructions for use of the anchor device shall be considered.
 - c. Care must be taken to avoid collision with any obstruction in the event of a fall.
 - d. It is advised that, for the event of a fall over the edge, special pre-planned rescue measures must be taken under the guidance of a well-trained and competent personnel.

INSTRUCTION FOR MAINTENANCE :

- Follow the maintenance Instructions procedure laid below strictly.
- In case of minor soiling, wipe the equipment with cotton cloth or soft brush. Do not use any abrasive material. For intensive cleaning wash in water at a temperature between 25°C to 50°C using a neutral detergent. It should be allowed to dry by itself and be kept away from open or any other source of heat. Avoid direct sunlight.
- Store in cool dry place, preferably away from moisture, direct sunlight, extra acidic or basic conditions, & sharp edges.



MARKING EXPLANATION :-

The Retractable Fall Arrester is marked with

- (i) The CE mark showing that the product meets the requirements of the PPE Regulation EU 2016/425
- (ii) Identification of the manufacturer
- (iii) Type or product code
- (iv) Webbing Length
- (v) Batch Number
- (vi) Serial Number

Information given on Label :-

1. Keep away from sunlight or heavy rains.
2. Ensure that the anchorage point has strength of min 12kN.
3. Ensure that the max angle between the vertical & the lanyard is 40°.
4. Micron Block can be used where the Anchorage point at foot level.
5. Once the Webbing has been reeled out, do not leave it suddenly to retract inside on its own, let it go inside gradually by guiding it slowly inside.
6. Connect the lanyard to the Dorsal attachment element of your harness.
7. Use between temperature range of -30°C to + 50°C.
8. To be used by a person weighing not more than 140kg In vertical direction.
9. Do not attempt repair unless trained by the manufacturer.
10. It can also used for horizontal usage.

LIFESPAN: The estimated product Lifespan is 10 years from the date of manufacturing. The following factors can reduce the Lifespan of the product : intense use, contact with chemical substances, specially aggressive environment, extreme temperature exposure, UV exposure, abrasion, cuts, violent impacts, bad use or maintenance.

DISCLAIMERS:- This information on the product is based upon technical data that MAXISAFE obtained under laboratory conditions and believes to be reliable. MAXISAFE does not guarantee results and take no liability or obligation in connection with this information. As conditions of end use are beyond our control it is the user's responsibility to determine the hazard levels and the use of proper personal protective equipment. Persons having technical expertise should undertake evaluation under their own specific end-use conditions, at their own discretion and risk. Please ensure that this information is only used to check that the product selected is suitable for the intended use. Any product that is damaged, torn worn or punctured should be discontinued from usage immediately.

EQUIPMENT RECORD				
Product : _____				
Model & type/Identification		Trade Name		Identification number
Manufacturer		Address		Tel, fax, email into use
Year of manufacture		Purchase Date		Date first put into use
Other relevant information (e.g. document number)				
PERIODIC EXAMINATION AND REPAIR HISTORY				
Date	Reason for entry (periodic examination or repair)	Defects noted, repairs carried out and other relevant information	Name and signature of competent person	Periodic examination next due date

EU-MIC02-130718-v2