

# TECHNICAL MANUAL FOR RETRACTABLE FALL ARRESTER RFA-100 USE, STORAGE, INSPECTION, AND MAINTENANCE

## Use: This equipment is a personal issue item: RFA-100

- ⇒ The equipment is a component part of a Fall Arrest System and may be used at anyone who works at a height on a personal issue basis. It is designed for vertical descend of one person at a time with a max. span angle of 30 degree of each side from the vertical.
- ⇒ Use connectors comply with EN 362 to link the equipment to an anchor device complies with EN 795 and a body holding harness complies with EN 361.
- ⇒ The braking mechanism is activated by centrifugal force acting on the brakes, i. e. when a descent reaches the speed as the equipment is designed.

## Inspection:

**[Before use]:** Verify that the equipment is free from cracks, deformation, wear, corrosion etc. Check the condition of the steel wire rope, the ferrules on the rope, and the swivel shackle. Wire rope must be check for its total length. Pull the rope to check the function of the braking mechanism.

**[During each use]:** Regularly monitor the condition of the equipment and the connections to the other equipments used in the system during each use.

Any item showing defects should be withdrawn from service immediately. When doubt, complete examination by a trained and competent person is necessary.

Fill in the attached "PPE Record Card" after a periodic inspection or inspection after a repair.

## Storage:

Stored the equipment in a dry condition and keep away from exposing under direct sunlight. Keep away from excessive heat, weight, wet, corrosive or other possible causes of damage.

## Maintenance:

It must be examined by a competent person authorized by the manufacturer at least every 12 months. Follow instruction after "Inspection", "Storage" and "Cleaning and Lubrication".

## Cleaning and Lubrication:

Do not immerse the equipment into water. Use soft cloth to wipe clean. Use brush to wipe off any dirt or ice which might accumulate on the steel wire rope. Lubricate the hinge and the gates of the connector and steel wire rope occasionally after cleaning.

## Caution:

1. This equipment should be used only by competent person or under the direct supervision of trained and competent person.
2. User should understand the correct and safety use of the equipment. Incorrect selection, misuse or fault maintenance of equipment could result in damage, injury or death.
3. Stop using this equipment if the following signs are detected:
  - any broken, worn-out or corrosion wire, or kinks and twists in the wire rope,

- damages, breaks, scratches, deformation or corrosion at the swivel shackle, ferrules and connectors, or
  - ineffective of the breaking mechanism.
4. Always place the anchor point (beam, eye bolt or tripod) above the user. The strength of the anchor point must be 10 kN or above. The equipment shall not be used where a stable and solid anchor system is in doubt.
  5. Prevent foreign objects to enter into the housing of the equipment for it may impede the effectiveness of the breaking mechanism.
  6. The wire rope shall not be contact with any sharp edges or corners during descending. The wire rope may break at the point of the contact when a fall occurs.
  7. Retract the wire rope slowly. Uncontrolled retraction may cause jams in the reel or serious collision between nearby objects and the free end of the rope and the attachment if any.
  8. It is recommended to attach a string at the free end of the wire rope so that the user alone can guide the wire rope to retract slowly.
  9. Do not use the product anymore after a major fall or impact, even though no visible defects sign can be identified.
  10. Do not use this equipment above mediums that the user may sink, e.g. water, sands, dust etc.
  11. When the device becomes wet, either from being in use or after cleaning, allow it to dry naturally and shall be kept away from direct heat.
  12. Allow a minimum clearance below the user of 2.7 meters to prevent a collision in case of a fall.
  13. The manufacturer or supplier will not accept any responsibility for damage, injury or death resulting from misuse of the equipment.
  14. Please keep the "PPE Record Card" for each of PPE equipment, subsystem and system.

**Model:** RFA-100, Retractable Fall Arrester.

**Rating:** Max. load 125 kg, Ø 4 mm galvanized steel wire rope of max. 10 meters working length.

**Complies with:** EN 360:2002

**Explanation of markings: Check the legibility of the product markings before each use.**

	Wear harness complies with EN361.		Hold free end of lanyard when retracting.		Do not repair.
	Read instruction before use.		Inspect for worn out before use.		
	Use of anchor device complies with EN 795.		Temperature rating.	S/N:	
	Max. span angle from vertical line.		Max. load.		