

USER INSTRUCTIONS

Aluminum Rope Grab YAG004



YAG004 is a rope grab and adjusting device for use of linemen and workers on their altitudes.
The length of lifeline can be adjusted quickly and securely.

Warning:

Working at height, rock climbing, and other related activities are inherently dangerous. It is the responsibility of any person using this equipment to learn and practice the proper techniques for use of the equipment for its indicated purposes safely and to anticipate and take appropriate action in situations where rescue may be required. Even the correct use of equipment and techniques may result in fatal consequences. Medical conditions can affect the safety of the equipment user in normal and emergency use. Any person using his equipment assumes all risks and full responsibility for all damages or injury which may result from the use of it. The following instructions show some of the common correct and incorrect methods of use; it is impossible to predict them all. Please read and understand this information before use, and retain this information for future reference. This product meets requirements of the standard EN3532:2002 with REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT.

Manufacturer: Nal Hon Industrial Co., Ltd.

NO.418 Hishu Rd. TaLi City Taiwan. www.hooks.com.tw

Notified body no. 1019 carried out a EU examination: VVUU ,a.s.,
Pikartska 1337. Ostrava, Czech Republic <http://www.vvuu.cz/en/>

Notified body no. 2849 Annual INSPECTION MODULE D INSPEC International B.V Beechavenue 5462 1119 PW SchipholRijk The Netherlands
<https://www.inspecinternational.com/>

Signification of marking



XX XX XXX

EN 353 2:2002

YAG004

manufacturer or trade mark
of manufacturer

month/year/batch No.

complies with EN 353 2
Ø11mm~Ø12.5mm

model of the product



2849:



read the instructions for use
complies with REGULATION (EU) 2016/425 OF THE
EUROPEAN PARLIAMENT

No. of notified body involved in product checking
identification of right orientation

Use the correct rope only warning

Important: When choosing a rope you must ensure the rope complies with EN1891 class A low stretch kernmantle ropes. Only the recommended anchor line shall be used. Flexible anchor lines which is made by polyester and nylon shall be secured to an upper anchor point and shall be either fitted with an end stop or be capable of being fitted with an end stop (this included a suitable knot in any doubt contact NAL HON) to prevent the guided type fall arrester from running off the anchor line unintended, as well as an attached lower termination or an attachment weight in every case.

Warning:

Please read carefully before use. This leaflet contains the necessary information for the correct use of rope grab on line. Incorrect use or improper maintenance could lead to serious accidents even fatal and for this reason the use of these tools must be limited to experts trained and aware of the dangers created by the situations in which these devices are used in the fields: rescue, mountaineering, climbing and caving. It is therefore necessary to receive adequate training (knowledge of techniques and security measures) before using the tools. Consider the necessary efficient and safe rescue methods to be used if a person should find himself in difficulty while using this product. It designate this product for the personal use of only one user. There are countless cases of bad or incorrect use but only a few are illustrated in this information leaflet. **ONLY THE METHODS INDICATED AS CORRECT ARE PERMITTED.** Any other method of use is to be considered **FORBIDDEN**. Verify that the ensemble of your equipment is made up of products compatible with one another and which conform to the regulations, standards and to the applicable directives. To be provided with a personal protective equipment against falls (PPE) never justify to expose oneself to free risks even lethal. The user is responsible for the risks to which he exposes himself. The producers and the retailers decline any and all responsibility for any damage or other type of negative consequence due to incorrect use and to inappropriate applications or for articles which have been modified and repaired by persons not authorized by the producer. The producer is exclusively responsible for the uses to which the product is for and he is not responsible for bad maintenance cases and generally for user's negligence that can increase the danger situations in which the equipment is used. The producer declines all

responsibilities in case of accidents, injuries or deaths occurred during or in consequence of the incorrect use of our products from the user or from a third person. The producer declines all responsibilities in case of nonrespect of the above mentioned instructions. Who is not able to assume these responsibilities and risks should not use this product.

You must read the following instruction before using this equipment, failure to do so could result in injury or death. Keep this instruction for future using.

- These instructions cover the use of NAL HON rope grab, conforming to one or more international standards. If there is any doubt please contact your supplier or NAL HON.
- This equipment is personal protective equipment (PPE). Rope grab for use only on rope.
- This product must not be loaded beyond its strength rating, nor be used for any purpose other than that for which it is designed.
- This product must be attached on a connectors which should conform to EN362:2004 and be selfclosing and selflocking. Incompatible components might lead to connectors accidentally disengaging. The user must ensure all connectors are correctly engaged and locked.

WARNING: Any dangers that may arise by the use of combinations of items of equipment in which the safe function of any one item is affected by or interferes with the safe function of another. Incompatible components can lead to connectors accidentally disengaging. The user should ensure all connectors are correctly engaged and locked. Verify that this product is compatible with the other elements of the system in you application (compatible = good functional interaction). Equipment used with your YAG004 muse meet current standards in your country (e.g. EN361:2002 harness in Europe) Harness: connect your YAG004 to a fall arrest attachment point on your harness. Energy absorbing lanyard: Use YAG004 only with compatible energy absorbing elements or functions to ensure that the impact forces on the body of the user during the arrest of a free fall are restricted to a maximum of 6kN.

Before each use:

WARNING: A written rescue plan and the means to implement it should to be in place to deal with emergencies that may arise during use. When using in working positioning, YAG004 are not meant for arresting a fall. In case the work placement exposes you to the danger of falling from a height, this device must be used in combination with an appropriate fall arrest system or collective protection.

- Verify there are no cracks, deformation, corrosion, etc.
- Check the condition of the frame and of the cam.
- Check the condition of the locking elements
- Check that axle protrudes from both sides of device and that it is locked in place.
- Attach a locking carabiner to the connection eye on the cam and pull in the direction of use to assure the device locks in the desired direction.

During each use:

- Make sure that all pieces of equipment in the system are correctly positioned with respect to each other.
 - It is important to regularly monitor the condition of the product and its connections to the other equipment in the system.
 - It is important to regularly check fastening and adjustment elements during use.
 - Ensure that the instructions for other components used in conjunction with this product are complied with. It is the user's responsibility to ensure that he/she understands the correct and safe use of this product.
 - The product is designed for use in normal climatic conditions(20° to +40°). It may be suitable for other conditions, please consult your supplier.
 - If the device suffer a significant blow or fall, scrap immediately the rope grab, even if any defects of degradations are visible to the eye.
 - The resistance of the rope grab could be seriously diminished.
 - It must be underlined that the use of this product in sea water environment or for caving considerably reduces the longevity of the product.
 - Care must be taken to avoid loading this product over edges and other obstructions. Check the anticipated orientation during loading before use.
 - Always use connectors with a screw gate (closed) to connect the rope grab to the fixing point.
 - Be careful that the rope grab and the rope do not touch or rub against sharp parts and / or abrasive materials.
 - Certain ropes can be slippery and reduce the rope grab braking effectiveness, for example new ropes, wet or frozen ropes, etc.
 - Important Notice
1. Maximum leading weight of the user can't be over 100kg.
 2. Range of temperature in place should be between 20°+40°
 3. Keep it away from fire, rain, direct sunlight.
 4. YAG004 are designed for one person use only, can't connect more than one worker to the fall arrester.
 5. Check the height of the anchorage point above the work space is compatible with the capacity of the fall arrester.
 6. Check the working site of this fall arrester is installed there is no any rise of pendulum movement, and no any sharp edges or abrasive surface to cut or damage the webbing.
 7. During use, make sure the webbing doesn't get wound around an arm or a leg.
 8. Please keep away the hazard that may affect the performance of the equipment and corresponding safety precautions that

have to be observed, for example: extremes of temperature, trailing or looping of lanyards or lifelines over sharp edges, chemical reagents, electrical conductivity, cutting, abrasion, climatic exposure, pendulum falls.

9. The connect hook situated at the end of webbing is to be attached on the anchorage of the fall arrester harness which should conform to EN361:2002. A fall arrest harness (PPE) is the only body attaching device that be used in this fall arrester (lifeline, block). The connecting distance between the full body harness attachment point and the rope should not exceed 200mm.
10. When using a system on rooftops, the user may also attach the rope grab to the sternal or dorsal attachment point of a full body harness (conforming to EN361:2002). The user should minimize the amount of slack in the rope near a potential hazard.
11. When choosing a rope you must ensure the rope complies with EN1891 class A low stretch kernmantle ropes. Only the recommended anchor line shall be used. Flexible anchor lines shall be secured to an upper anchor point and shall be either fitted with an end stop or be capable of being fitted with an end stop (this included a suitable knot in any doubt contact with NAL HON) to prevent the guided type fall arrester from running off the anchor line unintended, as well as an attached lower termination an attachment weight in every case.

WARNING: The adjustable lanyard for work positioning YAG004 is not meant for arresting a fall. In case the work placement exposes you to the danger of falling from a height, this device must be used in the combination with an appropriate fall arrest system or collective protection. Take care about the free fall distance required by a fall arrest system to avoid any impact or obstacle in the event of an accident. You must install the oval karabiner we supplied, in the device attachment hole. The use of any large karabiner may lead to a malfunctioning of the device.

WARNING: The hazards that may affect the performance of the equipment and corresponding safety precautions that have to be observed e.g: extremes of temperature, trailing or looping of lanyards or lifelines over sharp edges, chemical reagents, electrical conductivity, cutting, abrasion, climatic exposure, pendulum falls.

HOW TO USE

STEP 1



Hold the Rope Grab in the correct up and down direction

STEP 2



Open the upper gate (cover)

STEP 3



Push the jaw opened

STEP 4



Insert the support rope

STEP 5



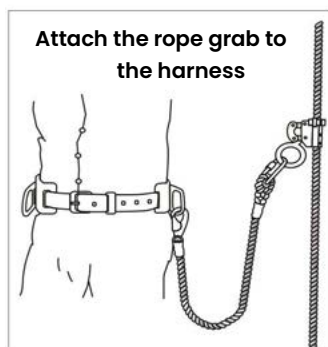
Completely close the upper gate (cover)

STEP 6

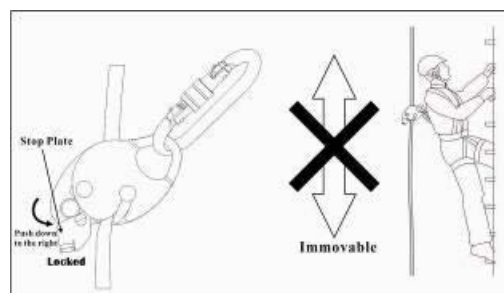


Install the connectors (karabiner)

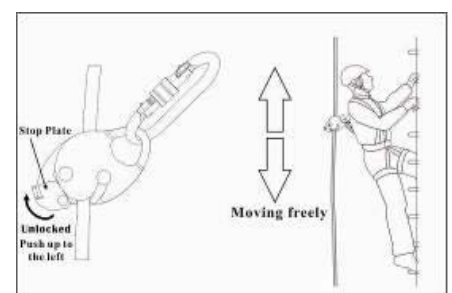
STEP 7



Attach the rope grab to the harness



Unlocked mode



Locked mode

1. Hold the Rope Grab in the correct up and down direction.
2. Open the upper gate (cover).
3. Push the jaw opened.
4. Insert the support rope.
5. Completely close the upper gate (cover).
6. Install the connectors (carabiner).
7. Attach the rope grab to the harness.

WARNING: To position and/or adjust the work positioning lanyard in such a way that the anchorage point is maintained at or above waist level.

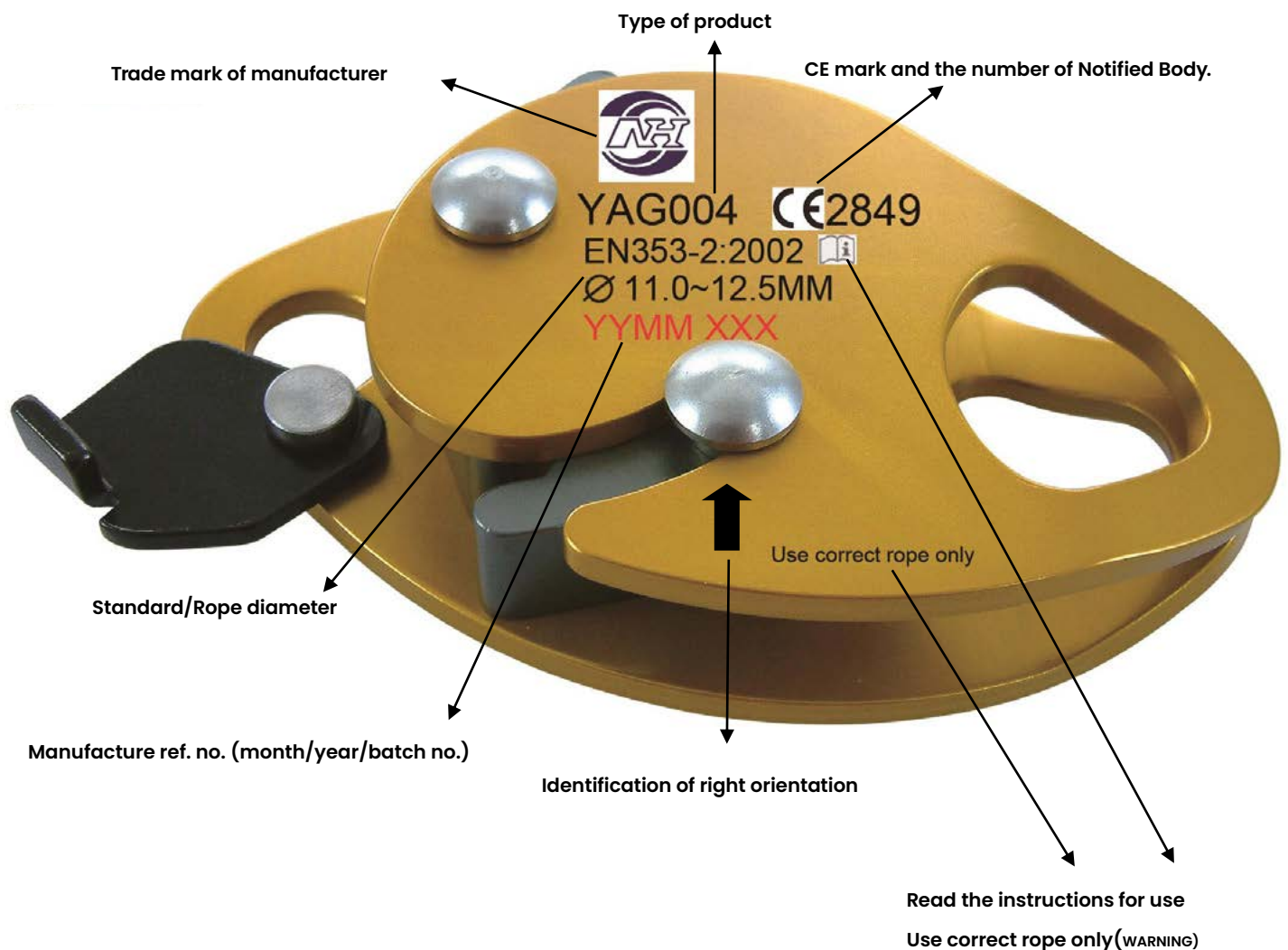
WARNING: The Anchor point position shall always be positioned, when positioned, it should minimize the potential for fall and potential fall distance. It is essential to verify the free space required beneath the user before each use, therefore, in the event of a fall there will be no collision with the ground or other obstacle. A minimum of 3 meter (including a safety factor of 1 meter) from the working level to the nearest obstruction, lower level or ground underneath a hazard should be maintained.

Installation

Anchorage point:

1. Must be situated above and higher than the operator.
2. Must have a resistance superior to 15kN.

Marking



Maintenance, servicing and storage

- Always replace the tool in case of doubt regarding the good working condition of the tool.
- Replace the tool if it shows signs of wear or of corrosion
- Avoid contact with heat sources.
- Avoid contact with all corrosive substances and with salt water.
- You should follow the same procedure when the tool becomes dirty with earth or mud
- Clean the tool immediately with potable water at room temperature (about 20°C) and if necessary and neutral soap.
- Rinse with clean water, and dry and eliminate possible residues with a dry cloth, it must be dried without exposing it to heat sources.
- If necessary lubricate the moving parts with oil.
- Have the tool controlled at least once a year by competent persons (for example: the producers) and record the control on the enclosed control card. The card must be completed and updated by the user.
- Remove the tool from the package and store it in a cool, dry, aerated place.
- The tool must not be exposed to direct sources of light.
- There must not be any corrosive substances or heat sources in the room and the tool must not come in contact with any sharp objects that could damage it. Avoid exposing the tool to ultraviolet rays.
- Never store a tool before first having dried it completely and do not store it in areas with a high saline concentration.
- YAG004 shall be packed in original package. Transport the YAG004 in a cool, dry, clean environment, away from dust, oil and direct sunlight. During transportation, the device should be protected to prevent damage or contamination.

Lifetime

It is difficult to define lifetime for this product. It depends on the intensity and frequency of use, on the environment where the product is used. Such factors as general wear, corrosion, chemical contamination, mechanical deformation, high impact load, or failure to maintain as recommended will reduce the safe working life.

WARNING: YAG004 should be withdrawn from use immediately while:

- Any doubt arise about its conditions for safe use or it have been used to arrest to fall.
- YAG004 should not be used again until confirmed in writing by a competent person that it is acceptable to do so.

WARNING: Due to the complexity or innovation of the equipment, or where safety critical knowledge is needed in the dismantling, reassembly, or assessment of the equipment, (e.g. a retractable type fall arrester), an instruction specifying that periodic examinations shall only be conducted by the manufacturer or by a person or organization authorized by the manufacturer. The periodic examination frequency shall be at least every 12 months. Product marking legibility shall be checked during period examination. Recommendation in regard to the frequency of periodic examinations, taking account of such factors as legislation, equipment type, frequency of use, and environmental conditions. Periodic examinations are only to be conducted by a competent person as an important element for maintaining product safety and should be completed in accordance with NAL HON instructions. The safety of users depends upon the continued efficiency and durability of the equipment. YAG004 scheduled for examination should be withdrawn from service and tagged "do not use". For further information contact info@nalhon.com.tw

Checking of the product

The product has to be checked at least once a year by qualified personnel (e.g. manufacturer). Filled in following equipment record shall be kept with these instruction:

INSPECTION AND MAINTENANCE LOG

Company: _____ Location: _____ Date Purchased: _____
 Serial Number: _____ Model Number: _____

Year	Date	By a Qualified Person	No Missing Parts	No Corrosion	No Deformation	Functioning Condition	No Changes to Attachment Structure
		Corrective Action			Maintenance Performed		
		Corrective Action			Maintenance Performed		
		Corrective Action					
		Corrective Action			Maintenance Performed		
		Corrective Action			Maintenance Performed		
		Corrective Action			Maintenance Performed		
		Corrective Action			Maintenance Performed		
		Corrective Action			Maintenance Performed		

WARNING:

It is essential for the safety of the user that if the product is re-sold outside the original country of destination the reseller shall provide instructions for use, for maintenance, for periodic examination and for repair in the language of the country in which the product is to be used.

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