

INSPECTION

- Inspect the contents of the APEX System in accordance with your company PPE inspection policy following the manufacturer's instructions.
- Each authorized user must be trained in equipment inspection and should do a cursory inspection before use and a required cursory inspection every six months from date of initial receipt, purchase or issuance for service in the field.
- Persons working daily with the APEX System secured to their harness should conduct a monthly cursory inspection of the kit and its contents due to possible wear and abrasion imposed through the structure or apparatus.
- If the equipment is dropped or utilized within any light load lifting or material handling applications, discontinue use. It should be inspected by a qualified inspector prior to being returned to service.
- Following the use (any emergency loading of the APEX or components) of the equipment, the kit must be removed from service for examination by an Authorized ENSA Service Provider. If there is any doubt as to the safety or serviceability of the device, contact ENSA.
- If the equipment is dropped or impact loaded, it should be inspected by a qualified inspector prior to being returned to service. In most cases, a visual inspection will not be able to determine if the equipment has been damaged. Based on the history of the incident, if there is any doubt regarding the safety of the equipment, it should be removed from service and retired.

ROPE

- Visually examine step wise the entire length of the kernmantle rope for signs of damage or deterioration including eye splices. Tactile inspection, feel for unevenness, rough spots and stiff (lacking flexibility) sections. Examine the rope for abrasions, cuts, and core breaks.
- Store in a cool dry environment away from direct sunlight. Ultraviolet (UV) degradation from direct sunlight will cause brittle and weak outer rope yarns.
- Dirt and grit cause internal fiber abrasion in ropes and grease deposits themselves do not damage rope materials, however they do trap dirt and grit and will affect the rope's performance within the adjustment regulator. Any shrink tubing used to protect the sewn termination stitch must be in place and intact.

APE DEVICE

- All APE Descent Devices must be free from any wear, distortion or cracks.
- Inspect the control lever for bends, cracks, and deformation.
- Inspect for any signs of rust, pitting or corrosion.
- All Connectors must operate correctly with no tendency for gates to stick or jam.
- All Connectors must automatically close and lock when at rest.
- If the APEX System fails any check DO NOT USE. Remove from the work environment and follow your company safety equipment removal policy.

FREQUENCY OF INSPECTION

- All Authorized Users shall be trained in how to use and inspect their PPE. A documented periodic inspection and inventory of the APEX System is required every six months and recommended more frequently if environmental locations and conditions or frequency of use are a factor, by example, if carried everyday a monthly inspection is recommended. Inspection may be carried out by the Authorized User or Independent Competent person.
- Kit passing inspection should only be re-used once written records are completed.
- Log all authorized inspections within the authorized user inspection form (included in kit).

TIME LINE

TIME LINE	INSPECTION
Before each use	Authorized User Inspection
Monthly (frequent use)	Authorized or Competent
Every 6 months	Competent (Formal) Inspection

Under occasional use from point of manufacturer the APEX holds a 10 year service life when maintained in accordance with these instructions.



The Warnings, Cautions and instructions outlined within this product manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that good sense and caution are factors which cannot be built into this product and must be supplied by the operator.

Inspect all Components upon receipt of this equipment to make sure no components are missing or damaged!

TRAINING

Training is Essential: Safe use of the ENSA APEX/Haulerbiner requires familiarity with its behavior during basic rescue and rappel skills. Successful completion of initial ENSA APEX/Haulerbiner certification training is required prior to use as a personal evacuation and rescue system. ENSA requires that initial certification, and recurring certification every two years, be provided by an ENSA Certified Instructor. Training must cover all relevant rescue and evacuation strategies per the ENSA APE Systems Instructor Guide (not included) and Student Field Guide (included).

APPLICATIONS

Designed for the following Rescue and Self Rescue Scenarios:

1. Evacuation
2. Assisted Evacuation
3. Self-Rescue from Suspension
4. Assisted Rescue of Another in Descent
5. Assisted Rescue of Another in Out of Reach and in Suspension

Additional:

6. A Static Backup Safety System as a risk mitigation measure when conducting an Assisted Rescue with another Rescue Device/System.



The ENSA APEX Assisted Rescue and Personal Escape System is designed for rescue and evacuation purposes for persons who work at heights within or on structures where an additional means of rescue or emergency egress involves the use of a Control Descent Device.

The ENS APEX Descending Device is intended to be used in conjunction with an appropriate harness, and reliable anchorage to enable a person to descend from one position to another, either on their own or assisted by another.

The ENSA APEX Descent Device is ANSI Z359.4-2013, NFPA 1983 2017(e) – a manually operated descending device with integrated descent line, mechanically variable friction, hand free locking and panic locking features.

The Assisted Rescue components within the system additionally allow the solution of rapid rescue response if a rescue incident occurs.

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CONTENTS

Evacuation & Assisted Rescue Kit

APEX ASSISTED RESCUE & PERSONAL ESCAPE SYSTEM

1. ENSA-APEX-280FRSBHCSR (280 ft / 85.3 m)
2. ENSA-APEX-340FRSBHCSR (340 ft / 103.6 m)

KIT COMPONENTS

1	Kit Bag	Ballistics Nylon
1	Rope Protector	Spectra/Ballistics Nylon
2	Harness Attachment Sleeves	Ballistics Nylon/Velcro®
1	Kit Bag Gear Tether	Nylon 25 lb SWL
1	APEX Descent Device	ANSI Z359.4-2013, ISO 22159, NFPA 1983 2017(e)
2	ENSA Pinned APE Carabiner	ANSI Z359.12, CSAZ259.12
1	Nylon Anchor Sling	Blue Water 11,000 lbf
	Hybrid PER Rope	Bluewater 7.5mm
1	ENSA Retractable Tool Tether	2 lb swl
1	Haulerbiner 6:1/7:1 RTU Assembly	310 lb swl 3,500 lbf (16 kN)
2	ENSA APE Carabiner	ANSI Z359.12, CSAZ259.12
1	Micro Pulley	EN12278 5,000 lbf (22 kN)
1	Kong ENSA Carabiner (Green)	CE EN 12275, CE EN 362/B 26 kN (9 kN Gate)
1	Kong Duck Rope Clamp	EN567
1	2 ft Dyneema Sling Bluewater	6,000 lbf (26.6 kN)



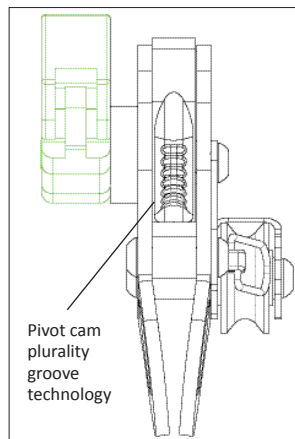
APEX Operable Temperature Range -16.1C/3F to +43.3C/110F

Rope conditioning (age, humidity, wet, frozen, high temperature) will produce differing results when the Descent Device is engaged. Proper training in the use of the device is mandatory.

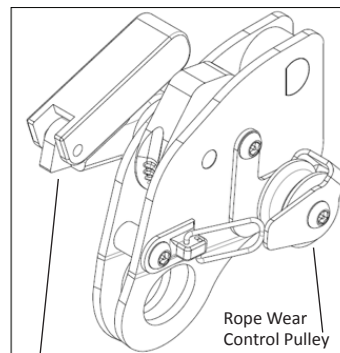
Do not use or deploy this equipment around moving or energized machinery!

Use of ENSA approved ropes only Hardware and ropes inspected and retired by user If used in an emergency, factory maintenance is required.

APEX DESCENDER



Pivot cam plurality groove technology



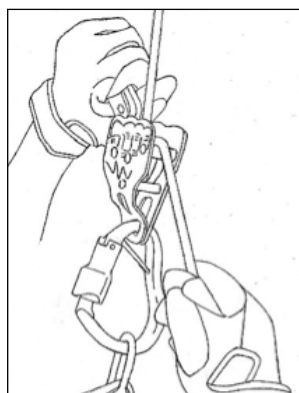
Folding Control Lever
(Pivot/pawl lock and friction brake enabling a controlled rate of descent)



Do not alter or miss use the equipment and do not use with other combinations of components or sub-systems, which may affect or interfere with the safe function of this device.

ENSA accepts no responsibility for modifications made to the APEX System by unauthorized individuals or service providers.

APEX DESCENDER OPERATION



CONTROLLED DESCENT

1. Ensure hands are situated in the Descent Ready position (see illustration).
2. Open Green Descent Lever.
3. Pull down on the green handle to engage movement while slowly releasing tension on the rope.



Occupations that concern the use of Assisted Rescue and Evacuation equipment specified within this Operator's Manual are High Risk and Hazardous and should only be used by a person explicitly trained in its use!

The Operator must read and fully understand this manual before use.

The Operator must read and understand all safety and warning information, operating instructions, maintenance and storage instructions before operating this equipment. Failure to properly operate and maintain the ENSA-APEX Assisted-Rescue and Evacuation Kit could result in serious injury or death to the operator or bystander.

Users accept all risk and responsibility for all damage, injury or death during all evacuation and rescue from height activities involving the use of this product.

Do not allow anything to affect the correct function of the ENSA-APEX device.

Do not use the ENSA-APEX device for any other purpose the those specified by the manufacturer.

EVACUATION & DESCENT

SELF-EVACUATION FROM HEIGHT

Employed only if the non-emergency method of egress cannot be safely accessed.

1. EXITING A STRUCTURE

The ENSA APEX Descender is designed to allow both hands to be used to exit a window, hatch or other opening in a structure. A safe descent requires a moderate amount of pre-planning with time to set a secure anchor, remove any edge material that may damage the escape rope or web anchor strap, and to make sure the connector, descender and any other equipment clears the edge without damage or hanging up.

2. DESCENDING

Before use verify the correct installation on the rope.

With the handle in STOP position, carry out a pre-pull test to ensure the device does not slip down the rope. The device should still be able to travel UP the rope, but should not travel down the rope when in STOP position. If it can travel down the rope the cam should be checked for wear by a competent person.

To control the device in descent, use your left hand to position the handle, and grip the trailing end of the rope with your right hand to give you extra security and greater speed control. If you pull the handle too far, the device will Brake. To RESET the device, let the handle rotate back in position automatically by removing your left hand only from the handle. This will allow you to continue to DESCEND.

3. EVACUATION

The APEX is designed to facilitate rapid escape from a wind turbine, telecom tower, or work platform at height. A primary and secondary escape plan and appropriate anchors should be predetermined for the specific work environment.

Escape from work-at-height can be accomplished by different methods depending on the work environment. 100% fall protection is required whenever working in a possible fall zone. An Escape Kit or Device is not a substitution for fall protection.

Evaluation/Testing Location: Intertek
3933 US Rte. 11, Cortland NY 13045
See Certificate of Conformity in product manual
at www.ensa-northamerica.com