

Keeping Helicopters Rescue Hoist Users Safe Worldwide



Be prepared with the Zephyr Emergency Tool Bag

Zephyr International LLC

5015 Enoch Road, Conway SC 29526

Phone: (843) 365-2675

Fax: (843) 365-2677

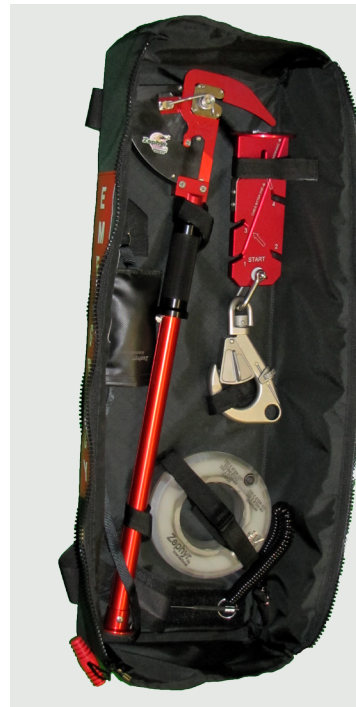
Email: info@zephyrintl.com

Website: www.zephyrintl.com

The E-Bag

Never lose sight of the end of the cable when using the DarkLight!

If your hoist cable becomes entangled during your rescue mission, you can easily and quickly cut the cable and attach the emergency hook in order to complete your rescue mission by using the AxelCut and QuickSplice.



Store your Zephyr emergency tools, the AxelCut, QuickSplice and DarkLight all in a corrosion control Emergency Bag. Hang the E-Bag in the Hanger have your tools ready to pick up and go when the need arises. Hang or store the E-Bag where there is available space in the helicopter cabin. The DarkLight can be easily installed and removed in just seconds with no hook disassembly. No airworthiness certification is required since none of the tools are permanently attached to the helicopter.

ZL-1051-2 E-Bag Kit

(Includes: ZL-1000-1 AxelCut, ZL-6000-3 QuickSplice with Slide Lock Hook and ZRG-6000-1 DarkLight G2B for use with Breeze style hoists).

NSN: Not Available



ZL-1051-3 E-Bag Kit

(Includes: ZL-1000-1 AxelCut, ZL-6000-3 QuickSplice with Slide Lock Hook, and ZRG-7000-1 DarkLight G2G for use with most Goodrich Style Hooks; not for use with the EC145 or EC135 and Lakota Installations.

NSN: Not Available

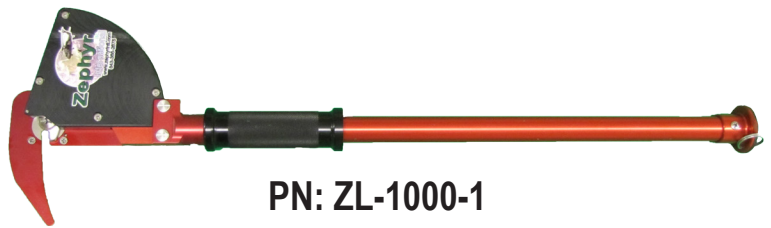


The E-Bag Contains:

The AxelCut™

The AxelCut is the **ONLY** one handed rescue hoist cable cutter available worldwide.
Totally independent of the rescue hoist and aircraft system.

The right tool for the job is a necessity not an accessory.



PN: ZL-1000-1

NSN: 5110-01-521-1998

AxelCut™ Emergency Cable Cutter

- » True one handed cutting capability for airborne hoist cables.
- » Light weight, cuts clean, fast and easy and allows for repeated cutting capability.
- » Reduces life cycle costs, less expensive than hoist squib and refire kits.
- » Permits hoist installed squib to be used as the backup cable cutter.
- » Solves the reliability problem with existing cutters, eliminating inadvertent releases, and no-fire possibility.
- » Unaffected by EMI, lightning or any other possible hoist system failures.
- » Qualified to +160°F(+71°C), -40°F(-40°C), Salt Fog, and Endurance

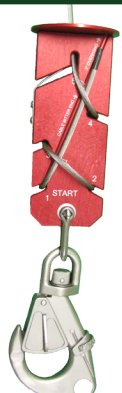
PN: ZL-6000-3

NSN: 4030-01-600-6137

QuickSplice™ with Slide Lock Hook

Allows a fast and safe method of attaching a rescue hook when all else fails, allowing the mission to be completed!

The QuickSplice is intended to replace the rescue hook if the cable becomes entangled and must be cut, or if the cable breaks. The QuickSplice has been tested to hold loads up to 2500 lbs. (1133.98 kg)



The Darklight G2TM

Never lose sight of the end of the cable!

NO airworthiness certification required!

NO hook disassembly!



**Easy to install on hook
and to change battery**



**PN: ZRG-7000-1
DarkLight G2G**

(For use with most Goodrich Style Hooks; not for use with the EC145 or EC135 and Lakota Installations)

Weight: 1.10 lbs. (0.50 kg)
Height: 1.25 in. (3.18 cm)
Width: 6.06 in. (16.76 cm)

**PN: ZRG-6000-1
DarkLight G2B**

(For use with Breeze Style Hooks)

Weight: 1 lb. (0.45 kg)
Height: 1.25 in. (3.18 cm)
Width: 5.20 in. (13.20 cm)

The DarkLight G2 is an LED device used to illuminate the hook assembly. It is equipped with green and red LED's to be used for increased hook visibility and signaling, as well as NVG compatible infrared LED's to be used in covert operations. The DarkLight G2 is designed for easy installation and maintenance. The device hinges open and utilizes a captured spring loaded latch pin, and can be installed and removed in just seconds with no hook disassembly. The body of the DarkLight G2 is constructed of impact resistant polycarbonate and constructed to be dust and water resistant. The device is operated by a single push button located on the bottom and is powered by a single CR123A lithium battery providing 30+ hours of battery life.

Improving visibility during rescue hoist missions.

Infrared Lights:

While OFF - Hold button 3 seconds for ON
(BLUE LED will fade up to indicate IR is ON).
While ON - Hold button 3 seconds for OFF
(BLUE LED will fade down to indicate IR OFF).

Visible Lights:

While OFF – Hold button until RED light illuminates Dark Light G2.
While ON – Press Button to cycle between RED and GREEN lights.
While ON – Hold Button until Visible Lights turn OFF.

TESTED, PROVEN AND MADE TO LAST



For a cover to perform effectively, it needs to meet the demands in three categories: Science, Usability and Durability.

Zephyr has partnered with Cocoon to make the E-Bag from their proprietary cover fabric which meet the following criteria.

SCIENCE:

Cocoon’s proprietary cover fabric is tested and proven—both in the laboratory and in action—to be lightweight, waterproof and breathable:

- Microporous film provides direct venting air permeability and helps manage and expedite reduction of RH
- Filters sand and dust to .3 microns
- Withstands exposure to ultraviolet rays (UV) for at least 36 months of 24/7 exposure
- Limits exposure to airborne pollutants such as salts and sulfurs
- Provides an effective barrier against rain, fine sand, snow and moisture
- Reduces corrosion by eliminating the “greenhouse effect” under the cover

USABILITY:

Cocoon covers are designed with user input, field-tested and developed specifically to meet specific end-needs:

- Extremely lightweight, easily packable and transportable
- User-designed and user-tested
- Unaffected by temperature and will not freeze
- Safe for windscreens and lenses—will not scratch or leave abrasions
- Machine washable and field washable

DURABILITY:

- Cocoon covers are made to last—even in the harshest environments:
- Maintains effectiveness through extreme weather conditions
- Resists absorption of equipment fuels or lubricants
- Endures rough handling and hundreds of uses in the field
- Wind-whip tested up to 120mph
- Sustains durability after continuous exposure to wet and dry conditions

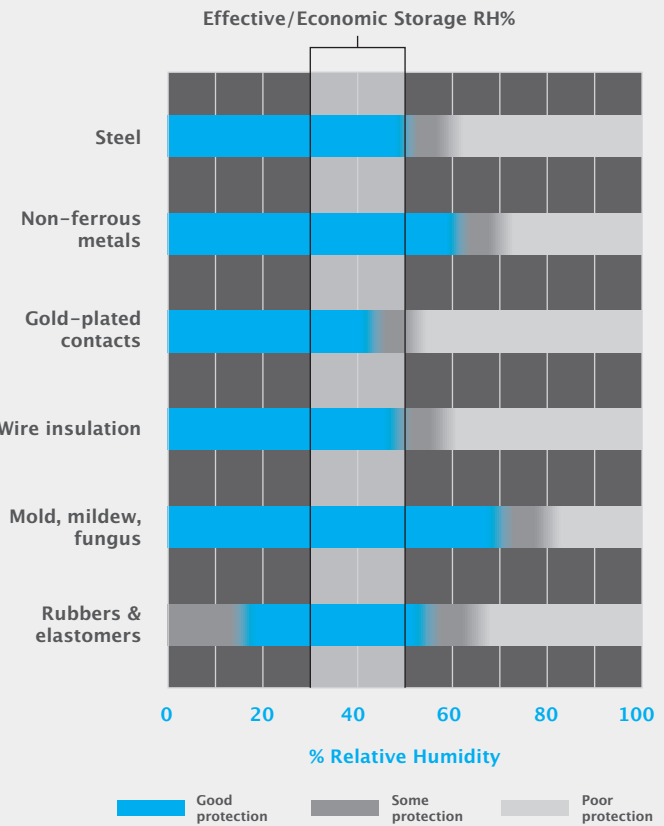


Typical Particle Sizes

Smoke	Salts/ Chlorides	Fine Sand	Fog
3 μm	2.5 μm	1.0 μm	0.4–4.0 μm

μm = microns

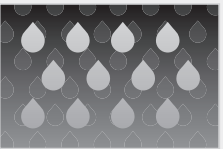
Optimal RH% Bandwidth for Protection



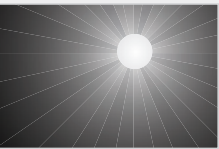
Only by meeting these criteria has Cocoon created a cover that so greatly surpasses military spec, setting the standards for all covers.

COCOON’S COVER FABRIC PREVENTS AGAINST:

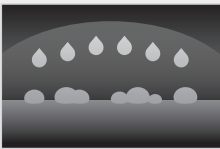
Moisture



UV Damage



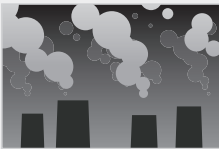
Greenhouse Effect



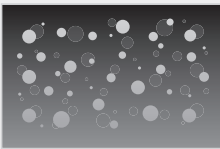
Extreme Conditions



Pollutants



Sand & Particulates



“ABOUT 25% OF OVERALL EQUIPMENT MAINTENANCE COSTS ARE CORROSION RELATED AND PERHAPS AS MUCH AS ONE-THIRD OF THESE COSTS COULD BE REDUCED THROUGH MORE EFFECTIVE CORROSION PREVENTION AND MITIGATION.”
-- GAO-06-709

“DURING ONE CALENDAR YEAR, THE ARMY ISSUED FOUR SAFETY OF FLIGHT MESSAGES FOR ITS ROTARY WING SYSTEMS DUE TO CORROSION-RELATED MATERIAL DEFICIENCIES THAT ADVERSELY AFFECTED 2,100, OR OVER 88%, OF ITS FORCE MODERNIZATION HELICOPTERS.”
-- GAO-03-753

“DURING THE 6 YEARS THAT THE CORROSION OFFICE HAS BEEN FUNDING CORROSION PROJECTS, THE AVERAGE ESTIMATED RETURN ON INVESTMENT FOR THOSE PROJECTS HAS BEEN 50:1.”
-- GAO-11-318SP



Exceptionally breathable yet inherently waterproof, Cocoon covers filter out sand, will never freeze and can be cleaned in the field.