GB BARBERI

75th ANNIVERSARY

Introducing

ZEPHYR
Rescue Hoist GSE

ALL THE TOOLS & ACCESSORIES YOU NEED TO MANTAIN YOUR HOIST SYSTEM

*GB BARBERI Srl has been appointed as **exclusive distributor** for Italy and*
***sales representative** and **service center** for Europe*

GB BARBERI

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RESCUE HOIST GSE

Manual RHGSE
Electric RHGSE
Hydraulic RHGSE
MagSens
Weight Stack

RHGSE Accessories

AxelCut
QuickSplice
E-Kit
DarkLight G2
E-Bag
Protective Covers: upon request

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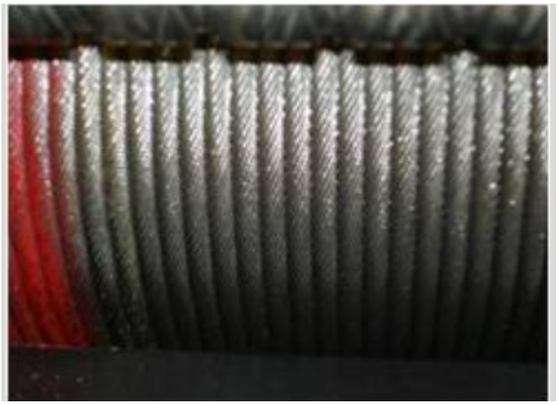
Why a Rescue Hoist GSE?

The RHGSE is a cost effective safety tool when tensioning, cleaning, lubricating, drying, inspecting the hoist cable after each mission and/or at hoist and cable maintenance intervals.



- **Prevents cable fouling** during hoist maintenance by applying positive tension on the cable at all times.
- **Prevents hoist drum and cable corrosion**, by cleaning, drying and lubricating the cable.
- The Lubridryer has a shut-off valve so you can change or shut off lubrication for degreased cables.
- **Prevents cable damage during load tests**. The load is adjustable via two simple adjustments.
- **Eliminates cable kinking and twisting risk** by keeping the cable off the ground and in a protective enclosure during hoist maintenance.
- **Only one person to perform all inspections** and maintenance in a minimum amount of time.
- **Suitable for any installed rescue hook**, up to 300 feet of cable.
- Allows **easier installation and reseating** of new cables rapidly, **without flying** the helicopter.
- **Saves on fuel costs, blade time, and manpower by operating maintenance while AOG in hangar.**
- **Easily transported** by one person, forklift or tug.

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ZEPHYR RHGSE

ALL THE TOOLS YOU NEED
TO PROTECT, INSPECT AND ENSURE THE SAFETY OF YOUR RESCUE HOIST
QUICKLY, EFFICIENTLY AND COST EFFECTIVELY.

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Manual RHGSE

The Manual RHGSE is easily transported by one person, forklift or tug.

It is manually operated while extending and automatically while retracting.

The load indication system uses a load cell to measure the torque in the system and visually displays the load in the cable.

The system includes the ability to wash, dry, and lubricate the cable.

Available Configurations:

- ZGS-11000-2V2 (-B for Breeze Eastern, -G for Goodrich)
  Three Groove Capstans. Does not include MagSens.

- ZGS-11000-4 (-B for Breeze Eastern, -G for Goodrich)
  Three Groove Capstans, and **MagSens**.

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Electric RHGSE

The Electric RHGSE is easily transported by one person, forklift, or tug and incorporates an electrical motor to extend the cable.

It uses single phase AC power in the hangar or from the aircraft while retaining the capability to operate remotely using human power when required.

It improves the efficiency of the operation and provides a steady load application to the cable.

The load indication system uses a load cell to measure the torque in the system and visually displays the load in the cable.

RHGSE 3 GROOVE CAPSTAN

RHGSE 4 GROOVE CAPSTAN

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PN ZGS-11300-1-CE

Electric RHGSE with standard **Three Groove Capstans**.
No MagSens, CE compliant.

Available Configurations:

- ZGS-11300-1-220-B-CE
  220 volts, Three Groove Capstans for use with **Breeze-Eastern**
- ZGS-11300-1-220-G-CE
  220 volts, Three Groove Capstans for use with **Goodrich**

PN ZGS-11300-3-CE

Electric RHGSE with **Four Groove Capstans**.
No MagSens, CE compliant.

Available Configurations:

- ZGS-11300-3-220-B-CE
  220 volts, Four Groove Capstans for use with **Breeze-Eastern**
- ZGS-11300-3-220-G-CE
  220 volts, Four Groove Capstans for use with **Goodrich**

PN ZGS-11300-2-CE

Electric RHGSE with standard **Three Groove Capstans** and **MagSens**, CE compliant.

Available Configurations:

- ZGS-11300-2-220-B-CE
  220 volts, Three Groove Capstans for use with **Breeze-Eastern**
- ZGS-11300-2-220-G-CE
  220 volts, Three Groove Capstans for use with **Goodrich**

PN ZGS-11300-4-CE

Electric RHGSE with optional **Four Groove Capstans** and **MagSens**, CE compliant.

Available Configurations:

- ZGS-11300-4-220-B-CE
  20 volts, Four Groove Capstansfor use with **Breeze-Eastern**
- ZGS-11300-4-220-G-CE
  220 volts, Four Groove Capstans for use with **Goodrich**

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Hydraulic RHGSE

The Hydraulic RHGSE is easily transported by one person, forklift or tug and was designed for the high end and heavy SAR user.

It allows continual use at higher loads without overheating.

The system includes a receptacle that can be used to provide 28 volts power to the take up for continuous operation or as a back up to the batteries if they are not recharged.

Comes equipped with load, length, and speed indicators.

RHGSE 4 GROOVE CAPSTAN

RHGSE 4 GROOVE CAPSTAN
with work platform

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MAIN FEATURES

- It allows **continual use without over heating**.
- Cable tensioning, cleaning, lubricating, and desalination system as standard.
- Onboard compressor for drying the cable standard.
- Fully automatic onboard battery charging system standard.
- Fully sealed Advanced Glass Mat lead acid battery system-air transportable standard.
- 28 Volts Electro-hydraulic drive.
- Uses Mil-H-83282 or Mil-H-5606 hydraulic fluid
- Comes standard with **4 Groove Capstans**

Technical Specifications

- Maximum load retracting 600 lbs / 272.2 kg
- Minimum load retracting 10 lbs/ 4.5 kg
- Maximum load extending 200 lbs/ 90.7 kg
- Maximum speed extending/retracting 350 FPM
- Maximum length cable – 300 ft / 91.4 m
- Load Indication standard
- Length Indication standard
- Input Power
  - 110 VAC
  - 220 VAC

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PN ZGS-10000-5-5-CE

Hydraulic RHGSE with **Four Groove Capstans**
No MagSens, CE compliant.

Available Configurations:

- ZGS-10000-5-5-220-B-CE
  220 volts, Four Groove Capstans for use with **Breeze-Eastern**
- ZGS-10000-5-5-220-G-CE
  220 volts, Four Groove Capstans for use with **Goodrich**

PN ZGS-10000-10-1-CE

Mobile Hydraulic RHGSE with **Four Groove Capstans,** with **Hight Work Plaform.** No MagSens, CE compliant.

Available Configurations:

- ZGS-10000-10-1-220-B-CE
  220 volts, Four Groove Capstans for use with **Breeze-Eastern**
- ZGS-10000-10-1-220-G-CE
  220 volts, Four Groove Capstans for use with **Goodrich**

PN ZGS-10000-7-CE

Hydraulic RHGSE with **Four Groove Capstans** and **MagSens**
CE compliant.

Available Configuration:

- ZGS-10000-7-220-B-CE
  220 volts, Four Groove Capstans for use with **Breeze-Eastern**
- ZGS-10000-7-220-G-CE
  220 volts, Four Groove Capstans for use with **Goodrich**

PN ZGS-10000-10-CE

Hydraulic RHGSE with **Four Groove Capstans** with **High Work Platform,** and **MagSens,** CE compliant.

Available Configuration:

- ZGS-10000-10-220-B-CE
  220 volts, Four Groove Capstans for use with **Breeze-Eastern**
- ZGS-10000-10-220-G-CE
  220 volts, Four Groove Capstans for use with **Goodrich**

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Weight Stack

PN ZGS-11468-1

The adjustable weight stack is used to apply loads to the hoist via the cable to meet the Hoist OEM’s requirement for checking the hoist and allowing all the twist to work its way out of the cable.

- Fixed weight stack to apply a 600lbs load (272.16kg) only
- Adjustable weight between 70lb (32.21kg) and 600 lb (272.16kg) with spacers only
- Shock absorbing point to protect the cable from shock loads.
- Comes with a trolley for easier maneuvering.
- Can be disassembled and moved by hand one weight at a time for transportation, deployments, or shipboard use.

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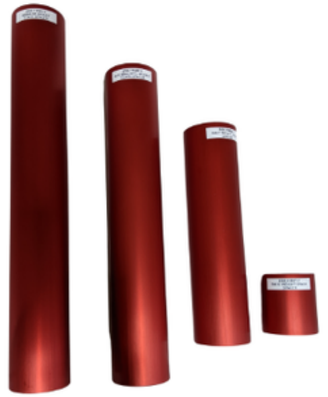
Adjustable Weight Stack Configurations

Adjustable Weight Spacers are used to obtain several different Weight Stack configurations as shown.

These are the approximate weight configurations when utilizing the Spacers.

The Spacers are included with the Adjustable Weight Stack and can be added to an existing Fixed Weight Stack.

ZGS-11468-2
Adjustable Weight Stack Assembly with Trolley and Spacers



ZGS-11468-3
Weight Stack Spacers

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MagSens

Magnetic Wire Inspection System

PN ZGS-15000-3

The MagSens system provides the rescue hoist maintainer the capability to measure and record locations of defects.
It uses Magnetic Flux Leakage to locate defects in the rescue hoist cable.
Strong permanent magnets create a magnetic flux circuit and sensors mounted detect variations in the magnetic flux circuit such as local faults (LF) or loss of magnetic area (LMA).

GOOD TO KNOW

- *Can be purchased separately or supplied as part of the RHGSE.*
- *The only inspection system for rescue hoist cables (patented).*
- *Eliminates unnecessary replacement of the cables until required (cost saving)*
- *Inspect quickly and efficiently by one person in a confined space.*

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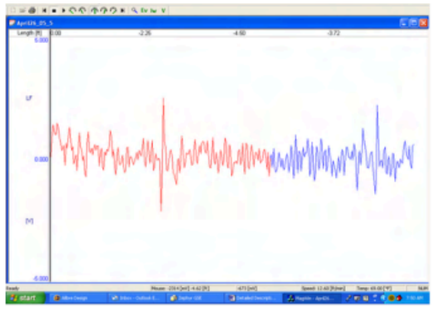
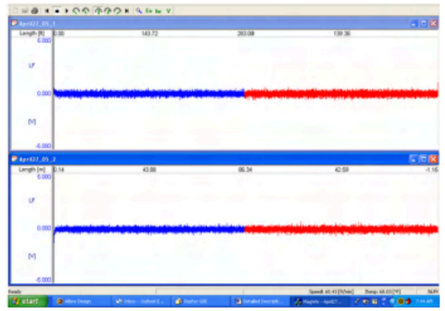
MAIN FEATURES

- Provides **objective evidence** of the cable inspection
- Reduce warranty claims and protects stockholders.
- Inspects all 133 wires of the cable electromagnetically internally and externally during ground maintenance.
- **Measure, track, record and collect locations of defects** in the rescue hoist cable
- Provides near **real time Health & Usage** Monitoring System (HUMS) for the cable.
- Provides a baseline of the cable when it is installed which can be used during future inspections for comparisons.
- Provides objective evidence that the cable was in an acceptable condition before the mission.
- Detects internal and external damage that may occur as a result of the rescue hoist usage in a minimum among of time, including:
  - Broken wires
  - Cut or broken strands
  - Cable corrosion
  - Manufacturing welded wires
  - Static discharge
  - Damage due to drum turnaround
  - Dynamic overloads to the cable
  - Severe pitting and crushing

IDENTIFIES INTERNAL / EXTERNAL ANOMALIES





TESTS COMPARISSON

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ZEPHYR ACCESSORIES

ALL USEFUL ACCESSORIES YOU NEED FOR YOUR DAILY HOIST OPERATION

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AxelCut

The Emergency Cable Cutter

PN ZL-1000-1

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.
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 +71°C (+160°F) and -40°C (-40°F), Salt Fog, and Endurance

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QuickSplice

with Slide-Lok Hook

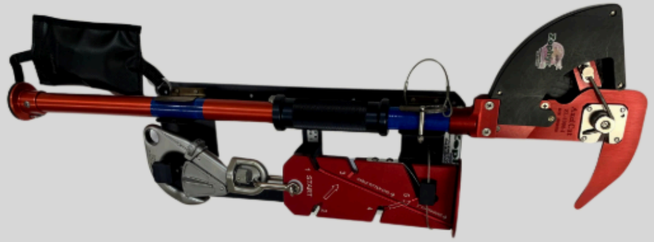
PN ZL-6000-3

The QuickSplice allows a fast and safe method of attaching a rescue hook when all else fails, allowing the mission to be completed.
It is intended to replace the recue 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)

E-kit

PN ZL-1100-1

The E-Kit contains the AxelCut, QuickSplice, and a mounting plate, for easy access on the aircraft.



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DarkLight G2

PN ZRG-6000-1 suitable for Breeze-Eastern
PN ZRG-7000-1 suitable for Goodrich
PN ZRG-8000-1 suitable for H145 hoist system

An infrared LED device equipped with IR, green and red LEDs.
Used to illuminate the hook assembly during low visibility or night operations, regardless weather conditions.

It’s a simple and effective method of signaling between ground crew and hoist operators.

Designed for easy installation and maintenance.
The device hinges open and utilizes a captured spring loaded latch pin.
It can be installed and removed in just seconds with no hook disassembly.

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MAIN FEATURES

- No airworthiness certification is required.
- No hook disassembly
- Compatible with Breeze and Goodrich hooks.
- NVG compatible infrared LEDS for covert operations. Designed for easy use, installation and maintenance.
- Constructed of impact resistant polycarbonate
- Dust and water resistant
- Powered by single CR123A lithium battery (30+ hours battery life)
- The device hinges open and utilizes a captured spring loaded latch pin.

E-bag

PN ZL-1051-(0-7)

The E-bag contains the AxelCut, QuickSsplice, and DarkLight in all configurations.

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Zephyr, a profitable investment.

Without doubt, buying Zephyr tools and equipment will prove to be a far-sighted investment. Depending on helicopter type, a break even can be expected within 6-8 months.

COST

- fuel
- pilot
- copilot
- winch technician
- helicopter wear and tear

VARIABLES

- weather forecast
- availability of flight personnel
- availability of helicopter after mro activity, with potential compensation for delay

BENEFITS

- safety first
- time efficency (check while helicopter is in hangar)
- on time delivery, no penalty for delay

in case of MagSens

- reduction of cost for unnecessary cable replacement

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