



AUTOMATIC RELEASE SLING

IKAR 2016 BULGARIA

Jan-Gunnar Hole



A new safety product invented from
practical experiences from the
«ground» of Alpine Rescue

AGENDA

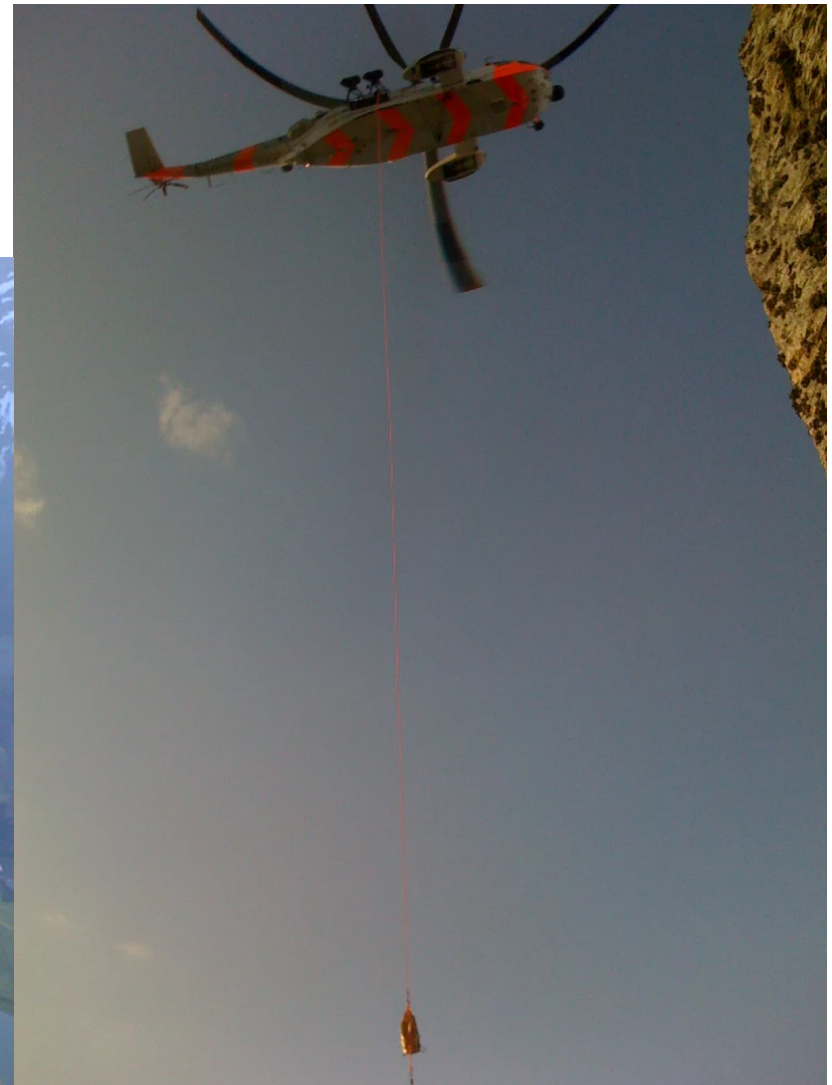


- Background
- Video from Spitsbergen
- The basic idea
- Slow motion video
- Certification

Background



- SuperLongLine 2009



Background



- Leader Mountain
- Last man out
- «Arm in sling» method
- Very focused on cutting the sling if I got a lift from the helicopter and arm would not slip through the sling
- The Sea King was above the top - no references



Practical experiences



- It happens to quick to do anything
- A release mechanism must be automatic
- It have to be two «states»
 - Owned by the helicopter
 - Safely secured to the wall
- Under difficult conditions the helicopter may have only one chance to pick out a rescuer (because of the weather etc).
- The rescuer must bring his own device

Risk analysis



Risk	Frequency	Consequence	Risk
Falling objects	Often	Possible fatal	High
Static electricity	Rare	Possible fatal	High
Engine cut	Very very rare	Possible fatal	Low

Consequence

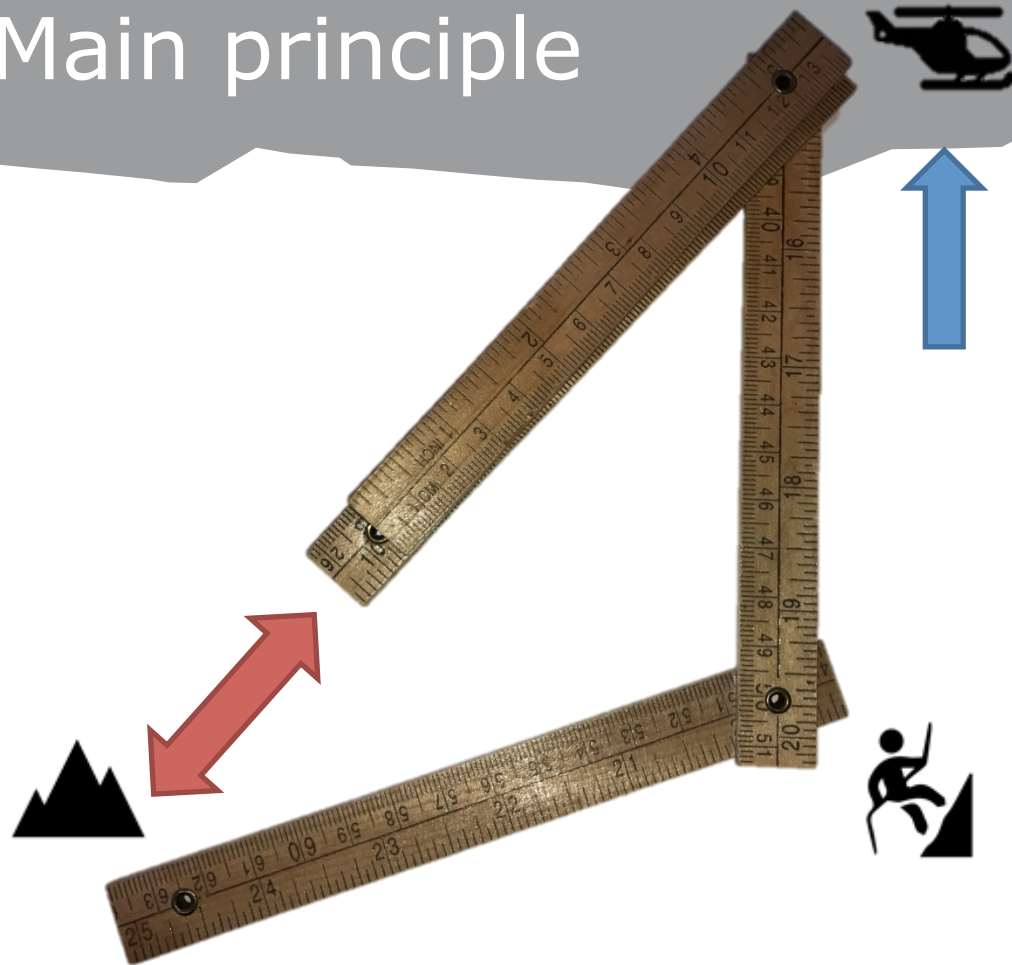


- High risk
- National stop in using «arm in sling» on exercises until a better method are present

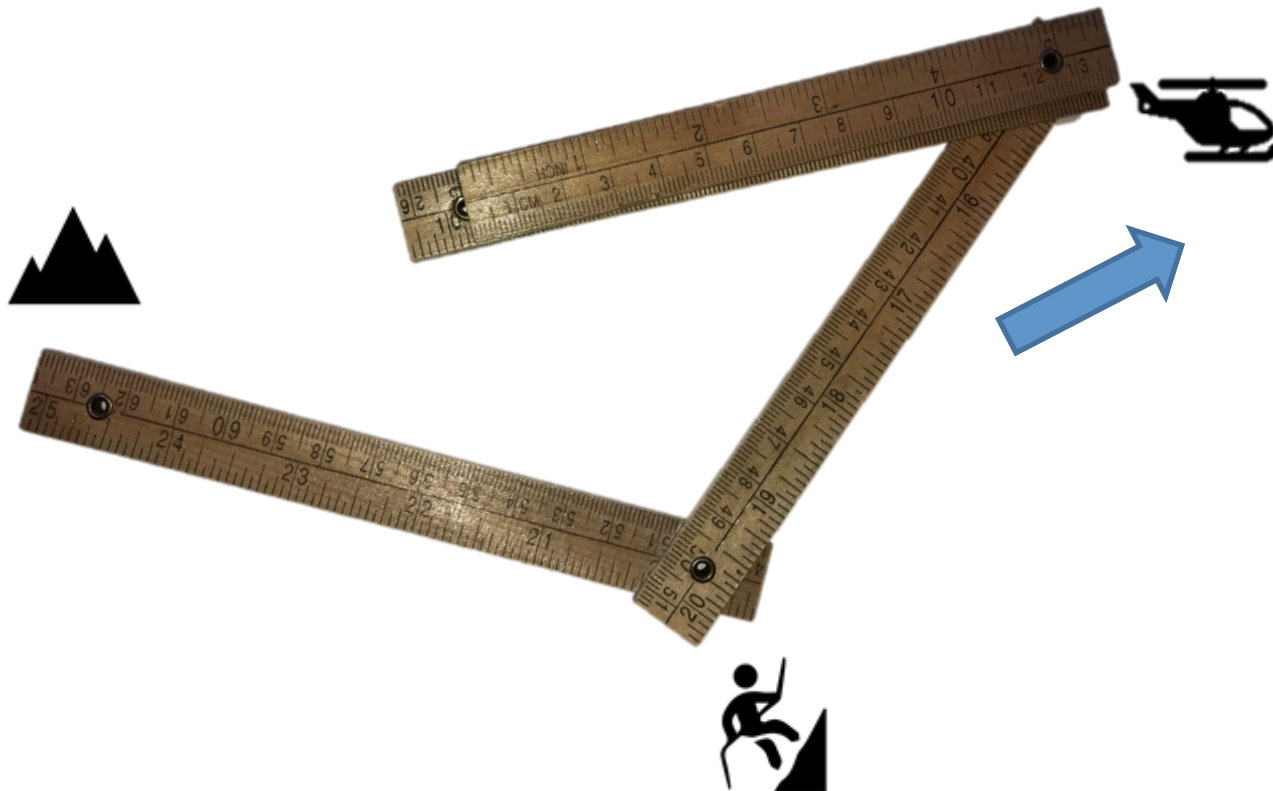
Main principle



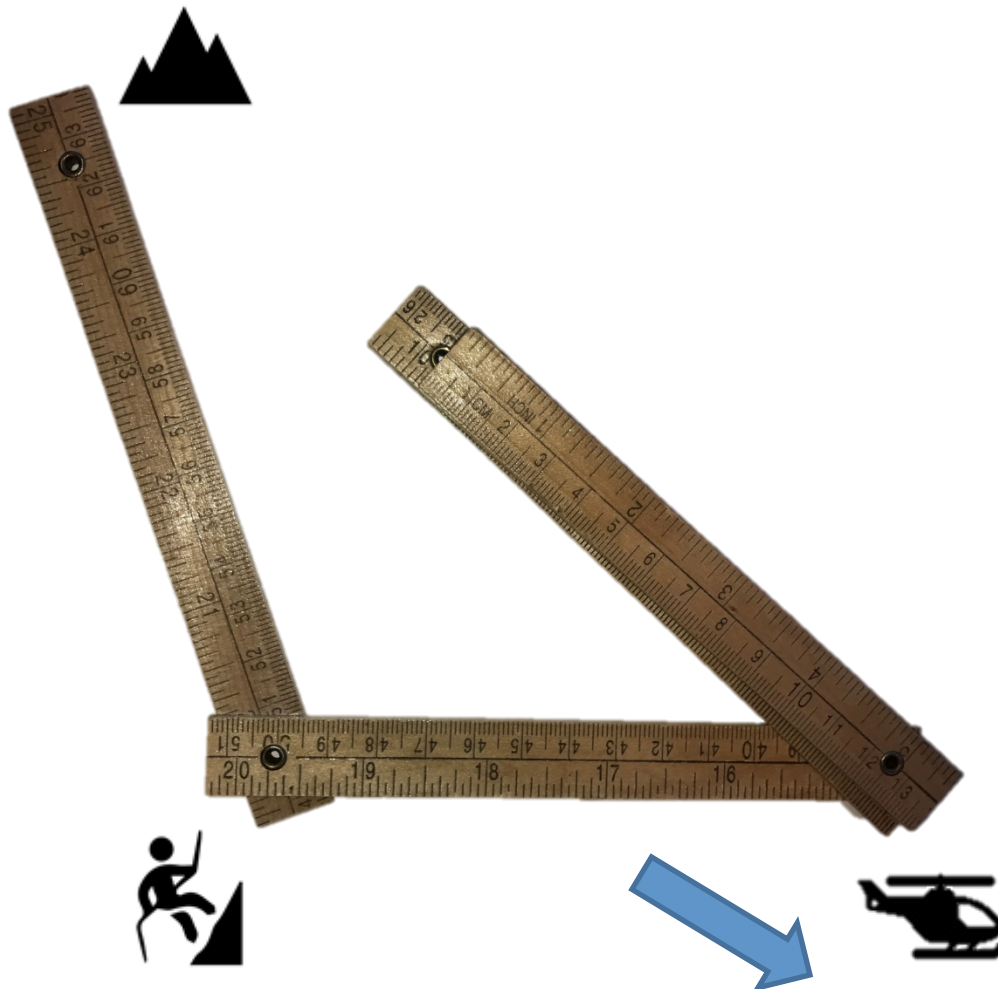
Main principle



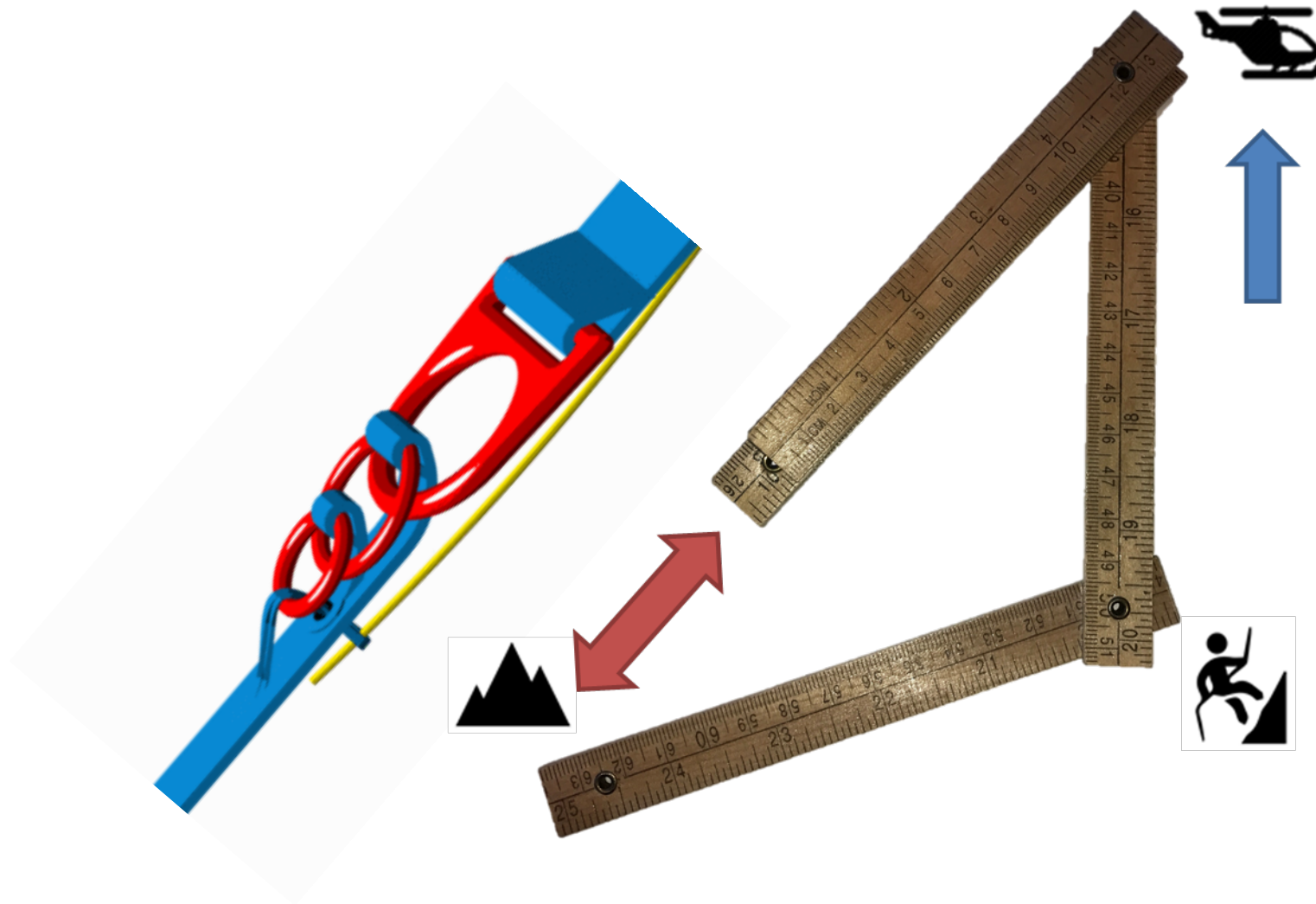
Works in any direction



Works in any direction



Release mechanism



The first test from Spitsbergen



Result



- Did not «feel» anything from the helicopter
- Felt like a normal extraction
- Suggested improvements:
 - Better marking
 - Different carabiners

Next test: NARG Procedure committee



Status



- All suggested improvements will be implemented
- Will be available within 1-2 months.

The team behind – LITE FLITE



- LITE FLITE
- SAR Helicopter equipment
- Product development
- Certification
- Documentation

RESCUE EQUIPMENT GROUND SAFETY CARGO EQUIPMENT ABOUT LITE FLITE

Welcome to
LITEFLITE
ULTRASAFE SOLUTIONS

Please browse through our website, using the image menu above.

INNOVATION - DESIGN - PRODUCTION SINCE 1968

LITE FLITE is domiciled at Kolding Airport, EKVD, in Jutland the mainland of Denmark. In our modern facilities we produce, repair and maintain a lot of aircraft related items for customers all over the world. Our helicopter rescue equipment is in service with skilled SAR units in more than 40 countries.

- [Read more...](#)

Latest News:

2016-05-25
New product: Sea Tray, 2nd generation
Sea tray, wet floor, rubber floor; Lots of names, same thing... Every rescue helicopter hoisting victims from the sea need to limit the amount of water entering the cabin, and a sea tra...

- [Read more...](#)

2015-09-03
Lite Flite achieves EN9100 certification

EASA
Part 145 Approved
DK.145.0039

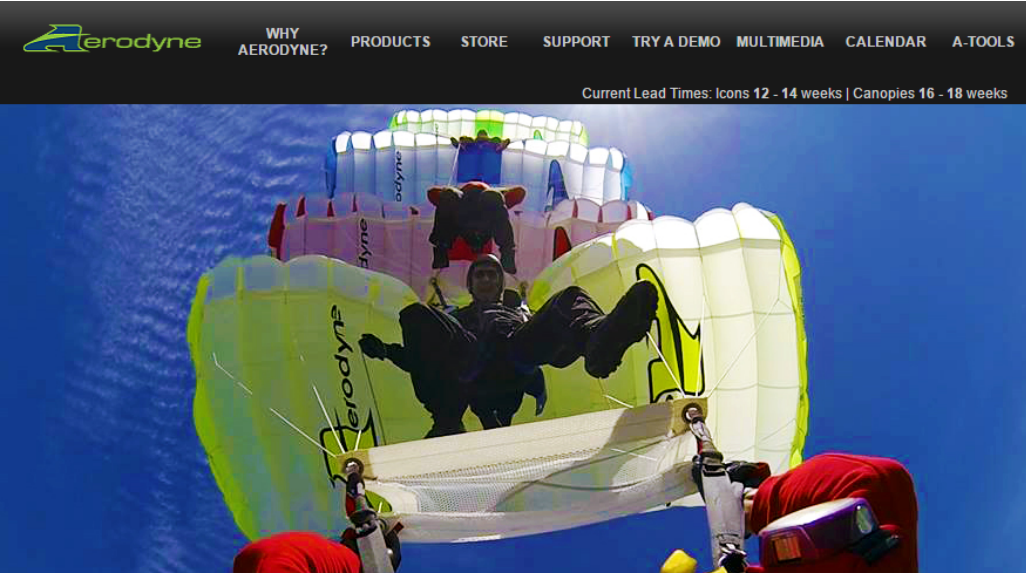
NATO
OTAN
NATO CAGR CODE R4196

BUREAU VERITAS
EN9100:2009 Certified
(AS9100C equivalent)
ISO9001:2008 Certified

The team behind



- SKY DESIGN
- AERODYNE
- Worldclass competence on special skydiver equipment
- Responsible for 3-ring system product development
- Production



Aerodyne WHY AERODYNE? PRODUCTS STORE SUPPORT TRY A DEMO MULTIMEDIA CALENDAR A-TOOLS

Current Lead Times: Icons 12 - 14 weeks | Canopies 16 - 18 weeks

Why Aerodyne?

What makes Aerodyne different from the other companies in this business?

- 1. Leadership**
Our company is owned and run by skydivers for skydivers.
- 2. Modern Designs**
Aerodyne's key product lines are the most modern in the industry. All of our TSOs date from the early 2000s while many of our competitors are selling TSOed items from the 70s, and 80s.
- 3. Commitment to Innovation**
We are committed to constant improvement in design and materials. We have many features that are only available from Aerodyne:
 - Our patented mini force ring - reduces pull force at the cutaway handle by 40%.
 - Our exclusive **zpX fabric** - reduces main canopy pack volume by 17% and is significantly easier to pack than any other canopy on the market.
 - Our use of ballistic nylon - for harness and container systems. We've been the first and remain the only company in our industry to provide this beautiful and extremely durable fabric, adapted from high end luggage.

The team behind - Sales



- Aviation and Survival Support
- Supplier of safety equipment the aviation business
- Worldwide sales



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INFLATABLES



SEARCH & RESCUE



CLOTHING



COMMUNICATIONS



MISCELLANEOUS



Certification



- EN 358 Wall – Rescuer (15 kN)
- EN 354 Helicopter – Rescuer (22 kN)



Vision

Make these operations safe worldwide