

## CLEANING INSTRUCTION, INSPECTION and MAINTENANCE – TYROMONT Helicopter Rescue Bag

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Before cleaning the helicopter rescue bag all accessoires (vacuum mattress, vacuum pump, TSO-belt, etc.) have to be removed. These parts have to be cleaned according the cleaning instruction of the manufacturer of these parts.

### Cleaning Instruction

- Hand-wash or hand-wash programme at max. 40°C (synthetic fibres, polyamide, polyester, polyacrylics).
- Clean blood or secretion spots with cold water as soon as possible.
- Air-dry, avoid direct sunlight.



- Do not chlorinate, do not apply any detergent containing chlorine.
- No dry-cleaning with hard brushes.
- No contact with disinfection baths or aggressive disinfects.
- Do not use metal tools to rubber spots of dirt.
- Do not use laundry driers or spin driers.
- No direct sunlight.
- Do not spin.
- Do not iron, as non-correctable changes are to be expected.

- For disinfection purposes, "ELTRA 40 Extra" from Ecolab has been tested and could be used.

### Cleaning of the Suspension

- The cleaning of the suspension can be carried out in the same procedure as above. To avoid damages of the washing machine, the Maillon quick links of the suspension could be put into the "Laundry Protection Bag" (Art. 93392) or shall be wrapped in a linen cloth.

### Cleaning of the Velcro Fastener

- In addition to the above described washing procedure, dirt, forest remainders, etc. can and shall be removed from the Velcro fasteners by means of a soft brush (like hand-cleaning brush, etc.).

**Dry all parts carefully after cleaning. No use of any laundry drier or no spinning!**

### Storage

- Helicopter rescue bag must be stored dry, protected from direct sunlight and at normal ambient temperature.
- The storage place for the rescue bag must be protected against and be free from any influence of all kind of chemicals which are able to harm textiles. On a heliport special attention shall be given to avoid contact with:
  - Fuels, lubricants, hydraulic oils and other technical liquids
  - Battery acids, gels
  - Disinfection materials of any kind
  - The fumes of these substances



- If the rescue bag is wet, it must be carefully air-dried before storage. Never use a laundry dryer!

## Inspection by Operator

- The helicopter rescue bag must be carefully visually checked after every operation for damages, noticeable changes or soiling. Special attention must thereby be given to the carrying structure of the bag.
- Contamination with blood or other body fluids must be removed according to the cleaning instruction.



- At contaminations of carrying parts (carrying belts and loops, strands of the suspension) with fuels, lubricants, hydraulic oils, other technical fluids, battery acids, gels, the helicopter rescue bag must be withdrawn from service and checked by the manufacturer only.
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## Maintenance – Repair - Overhaul

- Repairing and overhauling of the helicopter rescue bag TYROMONT must only be done by the manufacturer or an authorised person by the manufacturer. Textiles could not be overhauled.

## Determination of Damages, Fault Recognition

### Damage Limitations, Damage Recognition

If partial failures at the following components of the structure are detected at the visual check, the helicopter rescue bag must be withdrawn from service and passed to the manufacturer.

The following damage limitations can be recognized visually:

### Carrying Belts, Textile Components

- Every kind of damage at one of the belts or fittings between the belts.
- Any damage of the textile structure (fabric), if the damage is larger than 30x30mm.
- Any contamination of carrying parts (carrying belts and loops, suspension strands) with fuels, lubricants, hydraulic oils and other technical fluids, battery acid and gels.
- Any contamination of the textile structure (fabric) larger than 20x20mm.
- Every kind of cut, tear, rupture or other mechanical damage at the carrying belts.
- Every kind of cut, tear, rupture or other mechanical damage at the textile structure larger than 30mm.

### 10 – Strand Suspension

- Every kind of damage of the seams at both end-loops.
- Every kind of damage of the strands, such as significantly roughened surface, protruding or off-standing fibres, etc. Contact with Velcro fastener is accepted.
- Any contamination with fuels, lubricants, hydraulic oils and other technical fluids, battery acid and gels.
- Hairline cracks at the Maillon's or defective screw locks and missing plastic safety bow.
- Any deterioration of over 10% at the metal fittings (grooves, notches).

**Velcro Fastener**

- Every damage or disengagement of the Velcro from the textile structure >50mm.
- Every contamination with fuels, lubricants, hydraulic oils and other technical fluids, battery acids and gels larger than 20x20mm.
- Every kind of cut, rupture or other mechanical damage longer than 50mm.

**Zip Fastener (Foot-area)**

- Defective zip fasteners must be replaced by original spare parts.  
This repair must be done by the manufacturer or by a qualified service.

**Lateral Belts, Buckles**

- Defective belts and buckles must be replaced by original spare parts.  
This repair must be done by the manufacturer or by a service authorized by the manufacturer.

**Intervals for Inspection**

- Before every operation the helicopter rescue bag TYROMONT must be checked visually for damages, noticeable changes or soiling.
- The helicopter rescue bag must be entirely checked annually and marked with a label indicating the date of the next inspection (month after inspection +12 month = next inspection). The inspection and the results of it have to be documented in an inspection plan by the responsible person.
- The year of production (PROD.) and the serial number (S/N) are indicated on the label inside the bag in the head area.

**Attention to other possible Hazards**

The following conditions could lead to hazardous situations and have to be implicitly avoided:

- Rope slings or knots in the suspension strands
- Loop an object with a rope or strand
- Clamp between structures
- Twist of fittings or connectors
- Chafe over edges
- Contact with power lines
- Electrostatic discharge (potential difference)
- Twist of the load due to downwash

Above mentioned conditions could lead to an immediate loss of carrying capacity and results in a failure of particular parts.

**Listing is not complete, similar situations have to be considered during operation.**



## Warranty

- At normal use and proper handling and maintenance, the manufacturer warrants 2 years from date of production/supply for material- and manufacturing failures.
- The warranty expires at normal use after two years. Immediately at misuse, unauthorized retrofitting, variances, wrong application.
- The manufacturer holds no responsibility for direct, indirect or accidental consequences or any other damages resulting from the use of this product. In case of the application of special fittings or connectors by the user, no warranty can be taken by the manufacturer for such fittings.

## Manufacturer and Holder of EC Type Certification

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