# TABLE OF CONTENTS

## 1 – DESCRIPTION AND MAIN CHARACTERISTICS

1.1 Purpose  
1.2 Technical drawings  
1.3 Components list  
1.4 Accessories list  
1.5 Capacity  
1.6 Components description  
1.7 Accessories description

### Page References

- Page 3
- Page 3
- Page 4
- Page 4
- Page 4
- Page 6
- Page 8

## 2 – USER INFORMATION

2.1 General information  
2.2 Specific information

### Page References

- Page 9
- Page 10

## 3 – MAINTENANCE AND REPAIR

3.1 General information  
3.2 Maintenance  
3.3 Repair

### Page References

- Page 19
- Page 19
- Page 19

## 4 – SHIPMENT AND STORAGE

4.1 Shipment  
4.2 Storage

### Page References

- Page 20
- Page 20

## 5 – INSPECTIONS

5.1 Inspections before and after use  
5.2 Periodic inspections

### Page References

- Page 21
- Page 21

## 6 – PRODUCT LIFE AND Guarantee

6.1 Product life  
6.2 Guarantee  
6.3 Legal obligations

### Page References

- Page 22
- Page 22
- Page 22

## 7 – INSPECTION SHEET

6.3 Inspection sheet

### Page References

- Page 23
SECTION 1
DESCRIPTION AND MAIN CHARACTERISTICS

1.1 - PURPOSE
This publication aims to describe and provide the necessary information for the correct use of the stretcher and related accessories.

911 CANYON
P/N 88001000KK

1.2 - TECHNICAL DRAWINGS
1.2.1 - Overall drawing
1.3 - COMPONENTS LIST
The stretcher “911 CANYON” was designed and built to the rescue in ravine, every other operational scenario falls under the assessment and the consequent responsibility of the user. The stretcher is constituted by:

<table>
<thead>
<tr>
<th>no.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Structure</td>
</tr>
<tr>
<td>1</td>
<td>Cranial protection</td>
</tr>
<tr>
<td>4</td>
<td>Shoulder-shafts</td>
</tr>
<tr>
<td>1</td>
<td>Hanging kit</td>
</tr>
<tr>
<td>2</td>
<td>Rope bag</td>
</tr>
</tbody>
</table>

1.4 - ACCESSORIES LIST
The following accessory is also available (optional):

<table>
<thead>
<tr>
<th>Description</th>
<th>P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vacuum-operated mattress</td>
<td>872000000KK</td>
</tr>
</tbody>
</table>

1.5 – CAPACITY
The stretcher “CANYON” is designed and tested to raise a uniformly distributed load of 150 kg:
- by the shoulder-shafts with safety factor 1:3,
- by the hanging kit “880.01.01” with safety factor 1:8.

MAX 150 kg
(breaking load ~ 500 kg)
MAX 150 kg
(breaking load ~ 1300 kg)
1.6 - COMPONENTS DESCRIPTION

1.6.1 – Structure
The structure of the stretcher (Fig. 1), separable into two parts, is constituted by:
- an aluminium frame covered with a protective shell in fiberglass,
- a mattress of polyurethane foam fixed on both the sides of the frame,
- a tri-laminate watertight cloth with two-way zipper and visor. Attached to the top of the frame (head) it can be connected to the lowerpart (feet) using an automatic buckle,
- a closed cell mattress, thermally insulating, fixed inside the watertight cloth with Velcro,
- a harness locking the victim fixed to the frame,
- two connection points, fixed to the ends of the stretcher, for the guidance/management during the operational phases.

![Fig. 1](image1.png)

1.6.2 – Cranial protection
Lexan cranial protection (Fig. 2-3) applicable inside the watertight cloth.

![Fig. 2](image2.png)  ![Fig. 3](image3.png)
1.6.3 – Shoulder-shafts
The padded shoulder-shafts allow carrying the stretcher on the shoulders (fig. 4).

1.6.4 – Hanging kit “880.01.01”
The hanging kit (figure 5), consists of four Dyneema slings with relative screw connectors, a ring and a walker, ensures rapid adaptability to the recovery technique chosen due to the various connection eyelets. It allows lifting through a winch and transport by cable car.

1.6.5 – Rope bag
Rope bags applicable to the frame of the stretcher with Velcro (fig.6-7)
1.7 - ACCESSORY DESCRIPTION

1.7.1 - Vacuum-operated mattress
Vacuum-operated mattress for the victim immobilization (fig.8). The particular size and slots allow to lock the victim to the "911 Canyon" stretcher by the related locking harness.

Fig. 8
SECTION 2

USER INFORMATION

2.1 – GENERAL INFORMATION
Users must read and perfectly understand the information provided by the manufacturer before using the product.

Warning: the following information relates to the description of the characteristics, services, assembly, disassembly, maintenance, conservation, disinfection, etc. of the product. Suggestions on how to use the products, contained in this information, must not be considered as a true to life instruction manual. The practice and procedures manual must be defined and learned from experienced and qualified instructors.

a) Carry out all the controls described in the specific product-related information before and after use and particularly
   make sure that the product is:
   • in perfect condition and works well;
   • suited to the use you want to make of it.

b) If you have any doubts about the products safety and working conditions, replace it immediately. Do not use the product any more after a fall as any internal damage or deformation not visible from outside could have considerably reduced its strength. Improper use, mechanical deformation, accidental dropping of the product from a height, wear, chemical contamination, exposure to beyond the normal climatic conditions (metal products only: -30/+100°C – products with textile parts: -30 / +50°C), are a few examples of other causes possibly reducing, limiting and even terminating the product’s service life.

c) This product can be used combined with personal protective equipment conforming to Directive 89/686/EEC when compatible with the relevant information of the product. When you intend to combine two (or more) products read carefully the information.

d) It is strictly forbidden to modify and/or repair the product: no liability will be recognized by KONG S.p.A. for damage, injury or death caused by: improper use, changes made to product, repairs by non-authorized persons or use of non-original parts.

e) All KONG products are tested/inspected piece by piece in accordance with the procedures of the Quality System certified according to UNI EN ISO 9001. The personal protective equipment is certified and, where applicable, subject to supervision by the accredited authority reported in the specific instructions of the product.
2.2 - SPECIFIC INFORMATION
The "911 Canyon" stretcher is a complex device for rescue activities, its operational use requires accurate knowledge and use of appropriate techniques that need to be defined and learned from experienced and qualified instructors with a serious and constant action of regular training and updating.
Warning: inadequate expertise can cause serious damage and even death.

2.2.1 - Installing the stretcher
Assemble the two parts of the structure by the following steps:
a) raise the 2 locking tabs (fig.9),

connect the two parts of the structure by coupling the pins of the frame (fig.10 -11-12),
c) reposition the 2 locking tabs into the appropriate locations (fig. 13).

![Fig. 13](image13)

d) fully tighten the 2 ring nuts (fig. 14).

![Fig. 14](image14)

e) before applying the watertight cloth, hook it through the automatic buckle at the bottom (foot) of the stretcher structure (fig. 15-16-17).

![Fig. 15](image15)

![Fig. 16](image16)

![Fig. 17](image17)
2.2.2 – Positioning and immobilizing the victim
With the stretcher placed on a flat, stable surface:

a) release the buckles and open the outer straps (fig. 18),

b) fully open the cloth, keeping both edges of the zippers between the fingers and avoiding snags (fig.19),

c) connect the cranial protection to the structure of the stretcher:
   - inserting the tabs into the appropriate slots (fig.20),
   - locking it by tensioning the slings (fig.21).

Note: all tabs should rest on the Lexan plane.
d) open the harness that locks the victim (upper and lower sides) by releasing the automatic buckles (fig.22),
e) position and adjust the locking harness according to the body of the victim

f) lay the victim on the stretcher and provide for the progressive blocking by internal harness (fig. 23). We suggest locking the victim starting from the trunk and continuing to the feet (fig.24-25-26-27).

Note:
- the harness is designed to ensure proper locking of the victim but, depending on the type of injury and the medical and health information it may be used only partially,
- the arms of the victim are retained by the tension of the slings of the external harness, as shown in section g).
g) close the watertight cloth through the zippers, fasten the buckles of the external harness and tension the slings (fig. 28).

2.2.3 - Immobilization of the victim
The "911 Canyon" stretcher allows the victim immobilization through:
- the neck brace,
- the vacuum splint,
- vacuum-operated mattress “872.000”.
Attention: immobilization of the victim must be performed by trained personnel.

2.2.4 – Types of transport
The Canyon 911 stretcher can be used for the following types of transport, for which adequate training is essential for the knowledge of rescue techniques that go beyond these operating instructions.
2.2.4.1 - Connection of the shoulder-shafts
a) Connect the shoulder-shafts to the stretcher frame (fig. 29) with the correct coupling numbering,

![Fig. 29](image)

b) lock the coupling inserting the pin shaped in the related hole (fig. 30).

![Fig. 30](image)

2.2.4.2 - Connecting the hanging kit "880.01.01"
Connect the hanging kit, using the 4 connectors of the respective slings, to the appropriate holes in the side of the stretcher (fig.31).

![Fig. 31](image)

The eyelets on the 4 slings allow adjusting the position according to the transport mode selected and the body of the victim (fig.32).

![Fig. 32](image)
2.2.4.3 – Transport in horizontal position
The horizontal transport, generally of greater comfort for the victim, can be made:
- by hand, using the side handles (fig.33),
- on the shoulders, with the shoulder-shafts (fig.34),
- at sea (fig. 35), using the side handles and connection points attached to the end of the stretcher.
2.2.4.4 – Transport in horizontal position with rope

The transport in horizontal position with rope, if the terrain conformation allows it, may be made by:

- connection on the center of gravity of the hanging kit (fig. 36) for lifting and descent,

- both hanging kit connections and connection points attached to the end of the stretcher (fig. 37), for operations with the cable car. Situation generally of improved comfort for the victim.

2.2.4.5 – Transport in oblique position with rope

The transport in oblique position with rope, if the terrain conformation allows the horizontal position, may be made by:

- connection on the centre of gravity (fig. 38) or both connections of the hanging kit (fig. 39) and connection point attached to the head end of the stretcher for operations with the cable car with retaining action.

Situation generally less comfortable for the victim.
2.2.4.6 – Transport in vertical position with rope
Transport in the vertical position with rope (Fig. 40), when the conformation of the ground does not allow the horizontal position, through the connection point fixed to the head end of the stretcher, this situation is generally less comfortable for the victim.

Fig.40
SECTION 3

MAINTENANCE AND REPAIR

3.1 – GENERAL INFORMATION
The 911 Canyon stretcher is made with materials highly resistant to wear and to external agents. Despite this, the conditions of use make it necessary to perform maintenance and, in special cases, even repairs.

3.2 - MAINTENANCE
Maintenance operations that must be performed by the user are:
- cleaning: wash after each use with lukewarm drinkable water (max. 40°C), possibly with the addition of a neutral detergent (e.g., Marseille soap). Rinse and allow to dry in the shade, away from direct heat sources,
- Disinfection, when deemed necessary: dip the product for an hour in lukewarm water in which 1% bleach (sodium hypochlorite) was diluted, then rinse with drinkable water and allow to dry in the shade, away from direct heat sources.

3.3 - REPAIR
Repairs should only be carried out by the manufacturer and listed on the inspection sheet.
The user is allowed to replace:
- the shoulder-shafts,
- the hanging kit,
- the slings of the external harness,
- closed cell mattress,
- the cranial protection,
- the rope bags.
SECTION 4

SHIPMENT AND STORAGE

4.1 - SHIPMENT
The Canyon 911 stretcher and its accessories intended for other companies or the manufacturer must be packed in cardboard boxes, in particular the structure must be protected by bubble polyethylene sheets. During transportation, avoid exposure of these products to UV rays and heat, avoid contact with chemical reagents or other corrosive substances.

4.2 - STORAGE
After cleaning, disinfection and drying, store the stretcher and its accessories in a dry (40-90% relative humidity), fresh (temperature 5-40°C) and dark (avoid U.V. radiation) place, which is also chemically neutral (absolutely avoid salty and/or acid environments), away from sharp edges, sources of heat, dampness, corrosive substances or other possible detrimental conditions. **Do not store when wet!**
SECTION 5
INSPECTIONS

5.1 – INSPECTIONS BEFORE AND AFTER USE
To ensure the efficiency of the product and the safety of the victim and the rescuers, the stretcher and its accessories must be inspected before and after each use, in particular, check:

- the textile parts (cloth, harness, etc..) that:
  a. must not be cut or torn, especially in the areas in contact with the buckles, connectors and structure,
  b. the seams have no loose strands or cuts,
  c. the slings have not broken threads,
  d. the zippers are working properly,
- metal parts (structure frame, shoulder-shafts, etc..), that:
  a. there is no deformation, cracks or wear and tear,
  b. the connectors work properly,
  c. the rivets are not worn or cracked,
- the synthetic parts (shell of the structure, visor, cranial protection, etc..), that:
  a. there are no cracks, deformation or fissures,
- the air exchange valve, that:
  a. ensures the exchange of air,
  b. prevents water to enter in the watertight cloth.

5.2 - PERIODIC INSPECTION
Except if there are more restrictive provisions of law, the manufacturer advises to submit this product to review at KONG S.p.A. every three years from the date of first use. With at least annual inspections by staff trained by KONG S.p.A., the recommended revision frequency is 5 years from the date of first use.
SECTION 6
PRODUCT LIFE AND GUARANTEE

6.1 – PRODUCT LIFE
Carefully read section 2.1 paragraph b). The product life is 15 years from the date of first use, provided that:

a) maintenance and storage are carried out respectively as described in paragraphs 3.2 and 4.2
b) the inspections before and after use and period inspections do not indicate malfunction, deformation, wear, etc.;
c) the product is used correctly.

Warning: Do not use obsolete devices, (e.g. those whose life has expired, without inspection sheet, non-compliant with current regulations, unsuitable or incompatible with current techniques, etc...). Eliminate devices which are obsolete, deformed, worn, not functioning properly, etc.. destroying them in order to avoid any future use.

6.2 – GUARANTEE
KONG S.p.A. guarantees the conformity of supplied goods to the agreed specifications. The guarantee covering faults is limited to production defects and raw materials: it does not include wear and tear, oxidation, damages caused by improper use and/or during competition, incorrect maintenance, transport, conservation, storage, etc.; it becomes void immediately in case of modifications or alterations of the product. The validity corresponds to the legal guarantee of the country where the product was sold with effect from the date of sale. After this period no claim can be made against KONG S.p.A. Any request for repair or replacement under this warranty must be accompanied by a proof of purchase. If the defect is recognized, KONG S.p.A., at its only discretion, will repair or replace or refund the product. In no event the liability of KONG S.p.A. extends beyond the invoice price of the product.

6.3 – LEGAL OBLIGATIONS
Work, sports, professional and military activities are often regulated by specific national laws that may impose specific limits and/or requirements for the use of PPE and the preparation of safety systems, which included the PPE in their components. The user and/or the instructors are obliged to know and apply such laws or regulations that may in some cases impose obligations different from those contained in this information.
## SECTION 7
### INSPECTION SHEET

<table>
<thead>
<tr>
<th>Device:</th>
<th>911 CANYON</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturing firm:</td>
<td>KONG S.p.A. Via XXV Aprile, 4 - 23804 MONTE MARENZO (LECCO)</td>
</tr>
<tr>
<td>Serial number:</td>
<td></td>
</tr>
<tr>
<td>Year of production:</td>
<td></td>
</tr>
<tr>
<td>Date of purchase:</td>
<td></td>
</tr>
<tr>
<td>Date of first use:</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date Inspection</th>
<th>Type(^1)</th>
<th>Result Inspection</th>
<th>Notes</th>
<th>Department and signature</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Legend:
\(^1\)Type of inspection: P: Before use – D: After use – S: Periodic expiry