kidysafe

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Introduction

Child restraint system for ambulance stretchers

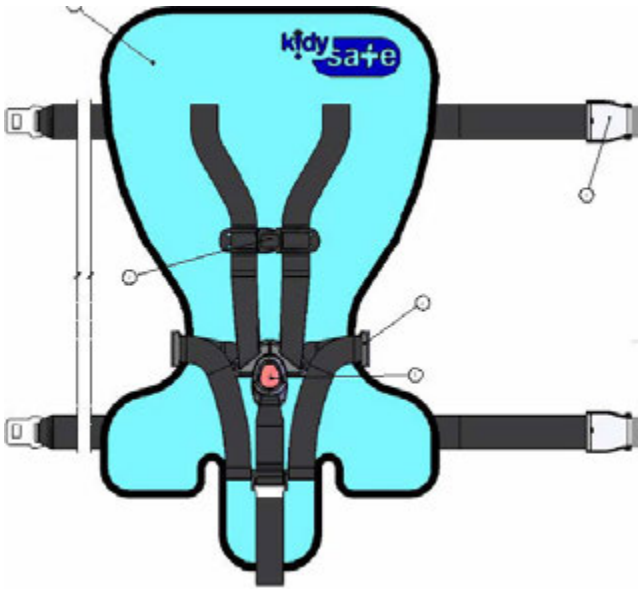
The device consists of a main canvas body with two adjustable straps to attach it to an ambulance stretcher and additional straps for restraining the child. These straps have a central fastening system and a quick release button.

The restraint harnesses fasten at 5 points: the shoulders, the pelvic region and the groin, to ensure the child is securely fastened onto the stretcher. The harnesses are adjustable in length for a perfect fit for different sizes of patients.

The device can therefore be adapted to ambulance stretchers and is safe, extremely simple and easy to use.

Features

Description and materials used



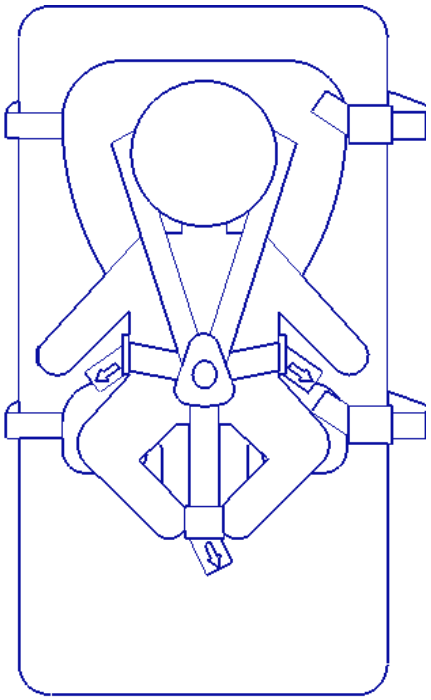
1. Child restraint system

The child restraint system consists of a set of straps equipped with a central fastening and locking system that lies over the child's stomach. This enables the child to be unfastened as quickly as possible by simply activating and releasing the locking mechanism. The straps over the child's chest have a separate fastening system.

The child restraint system also includes elements for the quick adjustment of the strap lengths to fit children of different sizes within the body mass range for which the product has been designed.

Features

Description and materials used



a. Straps

The harness holding the child consists of five straps. Two straps hold the child by the shoulders, two more straps hold the child's pelvic area and the final strap restrains the groin area, preventing the child from slipping out of the apparatus.

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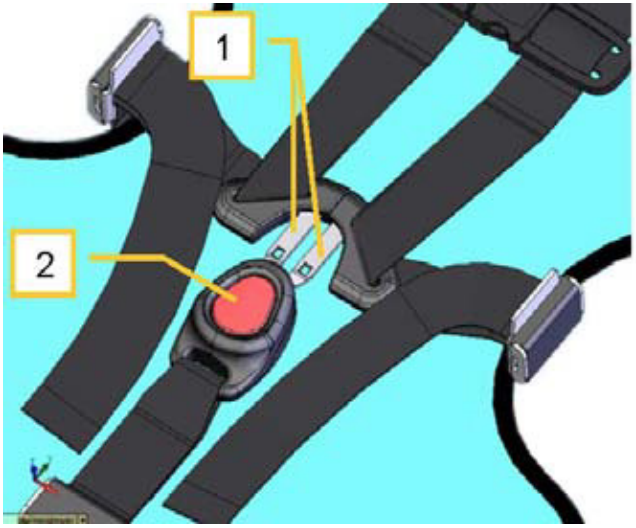

b. 5-point locking system

The fastening and locking system is centralized at a single point positioned over the child's stomach. It is clearly visible, so that the child can be unfastened from the stretcher by simply pressing the red release button **(2).** 5 kg of pressure must be applied to this button to release the child. This prevents smaller children from accidentally activating the release mechanism themselves.

The locking device is designed so that it can only be closed correctly. It is designed to bear loads in excess of 1000 kg.

Features

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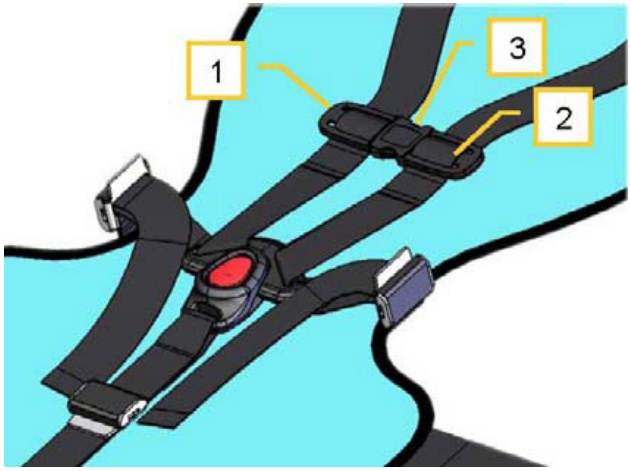


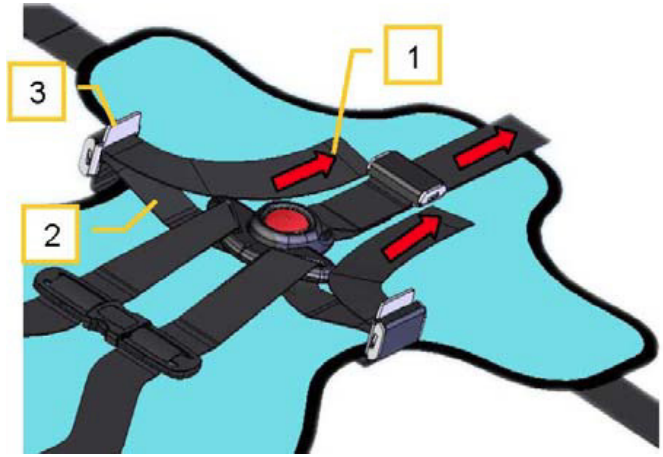
c. Chest restraint system

The device is equipped with a strap restraint system positioned over the child's chest area. The system consists of a clasp system for the quick fastening and release of the mechanism. To fasten, simply insert part **1** into part **2** until you hear a click.

To release, simply press the sides of the clasp **(3).**

Features

Description and materials used

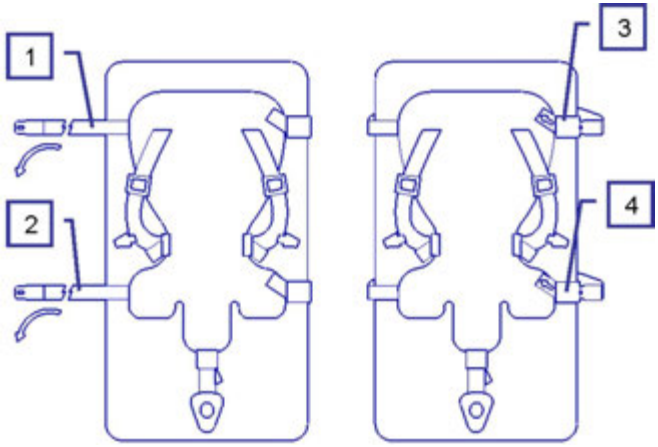


d. Strap length adjustment system

The strap length adjustment mechanisms are situated on the free ends of the straps and enable them to adapt to different sizes of children within the range of body masses for which the product has been designed. With this quick adjustment system, once the child is positioned in the device and the straps have been fastened, the strap can be tightened by simply pulling on the free end **(1)**. To loosen the strap, pull on the other end **(2)** while holding the adjustment mechanism **(3)**

Features

Description and materials used



2. System for fastening the device to the stretcher

The set of straps used to fasten the device to the stretcher are attached at two points. The straps **(1 and 2)** go around the mattress of the stretcher and part of the frame and are then fastened using the anchoring devices **(3 and 4).**

Applicable regulations

Below is a list of directives and regulations taken into account during the development of this product:

DIRECTIVE 93/42/EEC: Medical devices

UNE EN 1865-2000: Specifications for stretchers and other patient handling equipment used in road ambulances.

UNE EN 1789-2000: Medical vehicles and their equipment. Road ambulances.

UNE EN 1021-1: Assessment of ignitability of upholstered furniture.

UNE EN 980: Symbols for use in the labeling of medical devices.

UNE CR 14060: Medical device traceability.

Solutions adopted

- The materials used to manufacture the **KidySafe** child restraint system are resistant to bacteria, mold, stains and decay. The **KidySafe** restraint system is washable, waterproof and resistant to gasoline and oil.
- The **KidySafe** restraint system is not affected by disinfectants (bleach, soap and water, alcohol, oxygen peroxide and other potential liquid disinfectants).
- The quilted cover is non-slip.
- The tensile strength of the straps exceeds 7.2 KN.
- The **KidySafe** restraint system meets the flammability requirements of the European Standard EN 1021-1.
- Storage temperature: -30ºC to 70ºC.
- The **KidySafe** restraint system is resistant to vibrations transmitted by the ambulance or any possible impacts.
- The materials used are compatible with biological tissues, cells and body liquids, taking into account the use for which the product is designed.
- The design makes the product easy to handle and minimizes contamination by the patient or vice versa during use.

Storage

The KidySafe restraint system is stored in its 5cm x 20cm x 48cm carrying bag to keep the product clean and in perfect condition for use.