

# Reeves<sup>®</sup> EMS **READY FOR ANYTHING**



## Reeves Sleeve Instruction Guide

- Vertical/Horizontal Lift Extrication
- Durable
- Lightweight Compact Design
- Comfortable
- Safe
- Helicopter Hoist Capability
- Maneuverable
- Complete Immobilization
- Secure



Depending on the application, the Reeves Sleeve is available in three different versions, the Reeves Sleeve 122, the Reeves Sleeve II and the Reeves Sleeve Dragable. All versions are designed for rapid immobilization of patients with spinal and neck injuries. To find out which model is right for your department, contact us at 800-328-5563 or at info@ReevesEMS.com.



## REEVES SLEEVE 122

Orange: RSS0005; Black: RSS00031

The Reeves Sleeve 122 is the original Reeves Sleeve, which has been in use since the early 1960s to immobilize those with spinal and neck injuries and lift patients out of tight spaces.

### Other Features Include:

- Load capacity of the entire stretcher has been independently tested to over 1000 lbs (453.5 kg)
- Constructed of lightweight 18 oz. vinyl-coated polyester that is easily washed with soap and water, highly resistant to acids and alkali, and unable to be penetrated by liquids.
- Material tensile strength is 400 x 400 lbs./inch; Tear Torque is 160 lbs. x 95 lbs.
- Handles are made with 3" (7.6 cm) polypropylene webb with 2" (5.1 cm) reinforced webbing with foam. Not intended for extrication.
- One (1) vertical lift point and four (4) horizontal lift points for helicopter hoist capability allow the Reeves Sleeve 122 to hoist patients from any angle. A storage pocket for the hoist cables is built into the Sleeve. Lift rings carry 5,000 lbs (2268 kg) vertically and 1,250 lbs. (567 kg) horizontally.
- Six (6) padded carry handles allow personnel to transport the patient with ease.
- Includes removable Velcro head-securing blocks, adjustable head and chin-securing straps, a chest and arm-securing flap with Velcro, a leg-securing flap with Velcro and a spine board compartment for added strength and rigidity.
- Six (6) chest and leg straps with buckles and a yellow "fail-safe" strap are added for additional security. Nylon seat belt webbing tested at 6,000 lbs (2721.6 kg).

#### Weight

Without spineboard	15 lbs	6.8 kg
With spineboard	27 lbs	12.2 kg

#### Dimensions

Open (L x W)	73" x 24"	185.4 x 61 cm
Folded (L x W x H)	24" x 12" x 5"	61 x 30.5 x 12.7 cm



## REEVES SLEEVE II

Orange: RSS0014; Black: RSS0027

Used by members of the FDNY and the U.S. Navy during extreme rescue situations, the Reeves Sleeve II features ten padded carry handles to permit personnel to maneuver through extremely tight places.

### Other Features Include:

- Load capacity of the entire stretcher has been independently tested to over 1000 lbs (453.5 kg)
- Constructed of lightweight 18 oz. vinyl-coated polyester that is easily washed with soap and water, highly resistant to acids and alkali, and unable to be penetrated by liquids.
- Material tensile strength is 400 x 400 lbs./inch; Tear Torque is 160 lbs. x 95 lbs.
- Handles are made with 3" (7.6 cm) polypropylene webb with 2" (5.1 cm) reinforced webbing with foam. Not intended for extrication.
- One (1) vertical lift point and four (4) horizontal lift points for helicopter hoist capability allow the Reeves Sleeve II to hoist patients from any angle. A storage pocket for the hoist cables is built into the Sleeve. Lift rings carry 5,000 lbs (2268 kg) vertically and 1,250 lbs. (567 kg) horizontally.
- Ten (10) padded carry handles allow personnel to transport the patient through extremely narrow openings.
- Includes removable Velcro head-securing blocks, adjustable head and chin-securing straps, a chest and arm-securing flap with Velcro, a leg-securing flap with Velcro and a spine board compartment for added strength and rigidity.
- Six (6) chest and leg straps with buckles and a yellow "fail-safe" strap are added for additional security. Nylon seat belt webbing tested at 6,000 lbs (2721.6 kg).

#### Weight

Without spineboard	16 lbs	7.3 kg
With spineboard	28 lbs	12.7 kg

#### Dimensions

Open (L x W)	73" x 24"	185.4 x 61 cm
Folded (L x W x H)	24" x 12" x 5"	61 x 30.5 x 12.7 cm



## REEVES SLEEVE DRAGABLE

Orange: RSS0051

The Reeves Sleeve Dragable Stretcher is not only used to immobilize those with spinal and neck injuries and lift patients out of tight spaces, it can also be used to drag patients through rough terrain.

### Other Features Include:

- Load capacity of the entire stretcher has been independently tested to over 1000 lbs (453.5 kg)
- Constructed of lightweight 18 oz. vinyl-coated polyester that is easily washed with soap and water, highly resistant to acids and alkali, and unable to be penetrated by liquids.
- Material tensile strength is 400 x 400 lbs./inch; Tear Torque is 160 lbs. x 95 lbs.
- Handles are made with 3" (7.6 cm) polypropylene webb with 2" (5.1 cm) reinforced webbing with foam. Not intended for extrication.
- Specially coated nylon, plastic bottom allows for dragging through rough terrain.
- One (1) vertical lift point and four (4) horizontal lift points for helicopter hoist capability allow the Reeves Sleeve 122 to hoist patients from any angle. A storage pocket for the hoist cables is built into the Sleeve.
- Six (6) padded carry handles allow personnel to transport the patient through narrow openings.
- Includes removable Velcro head-securing blocks, adjustable head and chin-securing straps, a chest and arm-securing flap with Velcro, a leg-securing flap with Velcro and a spine board compartment for added strength and rigidity.
- Six (6) chest and leg straps with buckles and a yellow "fail-safe" strap are added for additional security. Nylon seat belt webbing tested at 6,000 lbs (2721.6 kg)

### Weight

Without spineboard	17 lbs	7.7 kg
With spineboard	29 lbs	13.2 kg

### Dimensions

Open (L x W)	77" x 27"	195.6 x 68.6 cm
Folded (L x W x H)	28" x 18" x 10"	71.1 x 45.7 x 25.4 cm

## ACCESSORIES

All versions of the Reeves Sleeve are available with replacement components and optional accessories.



Items such as the Reeves Spine Board pair perfectly with the Reeves Sleeve for added rigidity and Chest and Leg Extenders are available to accommodate larger patients.



Replacement components include additional Head Blocks (RSS0026), Transport Bags [for both Black (RSS0054) and Orange (RSS0039) versions], Head and Chin Strap Sets (RSS0049), and Buckles.

## GUIDELINES

- Read **ALL** instructions prior to use.
- Proper application of this device requires a minimum of three rescuers.
- Training in the use of this device should take place prior to it being applied.
- Use only as directed by your EMS authority or under the supervision of a physician.

## DO'S:

- **DO** refer to your EMT or paramedic training manuals for proper spinal immobilization.
- **DO** secure **ALL** components of the REEVES Sleeve before attempting to move a patient.
- **DO** utilize **ALL** appropriate techniques to insure optimum spinal immobilization.
- **DO** reassess your spinal immobilization techniques prior to actual transport.

## DON'TS

- **DO NOT** neglect to apply and maintain proper cervical spine immobilization.
- **DO NOT** use the REEVES Sleeve in an upside down position as this may place undue stress on the cervical spine.
- **DO NOT** use the REEVES Sleeve if any signs of weakness are detected during the pre-application inspection.
- **DO NOT** hesitate to contact your local EMS authority or Reeves EMS, LLC. with questions regarding the REEVES Sleeve.



1. Remove REEVES SLEEVE from carrying case. Open vests and straps. Following a pre-application inspection, device is ready to use.



4. Maintaining cervical traction, roll patient as a unit. Slide REEVES SLEEVE under patient as far as possible.



7. Place upper vest as high under arm pits as possible allowing no space in arm pit. Wrap upper and lower vests around patient and secure Velcro.



**2.** Open Velcro pocket at foot of REEVES SLEEVE. Slide supporting board into pocket. Re-secure Velcro and Fastex buckles of pocket.



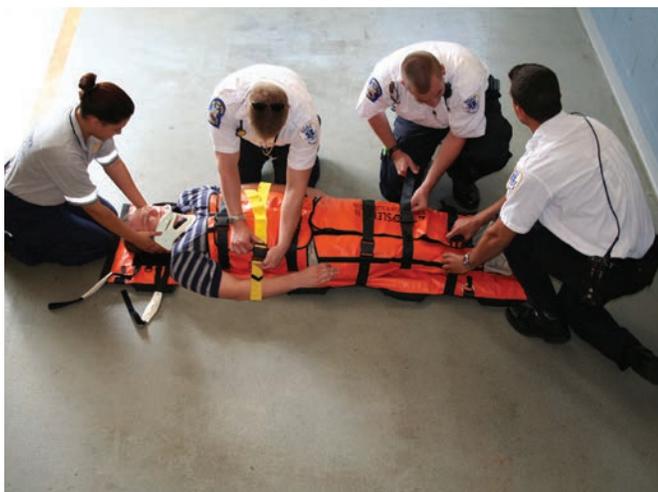
**3.** While maintaining manual cervical traction, apply cervical collar of similar device as approved by your local EMS authority.



**5.** Continue to maintain cervical traction. Gently roll patient into centered position on REEVES SLEEVE.



**6.** Position head panels around head. Secure forehead strap. Chin strap may be used as long as airway is not compromised and local protocols permit.



**8.** Secure all straps snugly. Patient's arms are outside black straps but may be placed inside yellow straps. Re-assess all procedures thus far.



**9.** Your patient is now completely immobilized and ready for transport.

## PERFORMING A THOROUGH SAFETY INSPECTION

Safety belts, harnesses, and other materials are designed for today's rugged work environments, providing strength, durability, and dependability in accordance with OSHA and ANSI A10.14 standards. To maintain service life and high performance, all belts, harnesses, and other materials must be inspected frequently with periodic tests conducted by a trained inspector.

Inspect your equipment daily and replace it if any of the defective conditions explained in this manual are found.

### Examine Each Belt

Beginning at one end, holding the body side of the belt toward you, grasp the belt with your hands 6 to 8 inches apart. Bend the belt into an inverted "U" shape. This procedure will allow you to locate damaged fibers or cuts more readily. Watch for frayed edges, broken fibers, pulled stitches, cuts or chemical damage. Special attention should be given to the connection of buckles and metal rings that are attached to webbing. Note any unusual wear, frayed or cut fibers, or distortion of buckles or rings. Look for frayed or broken fiber strands that appear as tufts of fiber on the webbing surface.

### Inspect Buckle Frame and Bars for Cracks, Distortion, or Stress Marks

The "male" part of the side release buckle should snap into place when inserted into the "female" part indicating a secure fastening.

Check to ensure the "male" edges overlap outside corners of "female" fitting. Pay special attention outside clamp tongues of the "male" fastener.

### Check Metal Rings and Ring Wear Pad (If Any)

Check for distortion cracks, breaks, and rough or sharp edges.

### Examine All Surfaces of Vinyl Coated Polyester Material and Nylon Belts

Look for signs of damage caused by heat, chemicals, molten metal or flame, or paint and solvents.

**Heat:** In excessive heat, polyester becomes brittle, has a shriveled, brownish appearance, and fibers will break when flexed. DO NOT USE stretcher in temperatures above 200 degrees Fahrenheit.

**Chemicals:** Look for a change in color such as a brownish smear or smudge. Belts will crack when bent and will lose elasticity.

**Molten Metal IR Flame:** Webbing strands fuse together and appear as hard, shiny spots. Polyester will NOT support combustion.

**Paint and Solvents:** Paint which penetrates and dries will restrict movement of fibers. Drying agents in solvents may appear as chemical damage.

## CLEANING AND STORAGE

Basic care of all rescue equipment will prolong the durable life of the equipment and will contribute toward the performance of its vital safety function.

When cleaning the REEVES Sleeve, wipe off all surface dirt with a sponge slightly dampened with plain water. For more resistant dirt, use a mild solution of water and commercial soap or detergent. Work up a thick lather using a vigorous back and forth motion. Rinse thoroughly to remove detergent. Wipe each belt with a clean cloth and use a mild detergent solution to remove stains. Hang belts freely to air dry but avoid excessive heat. Do not store device while still damp.

Proper storage and maintenance after each use are as important as cleaning the equipment of dirt, corrosives, or contaminants. Storage areas should be clean, dry and free from exposure to fumes or corrosive elements.





## IMPROVE RIGIDITY WITH THE REEVES SPINE BOARD

Designed for rapid immobilization of patients with spinal and neck injuries, the Reeves Spine Board is a rigid stretcher with a hefty load capacity of 1,000 lbs (453.6 kg). It can be inserted into the Reeves Sleeve to provide full spinal immobilization when performing vertical or horizontal extrication.

The Spine Board is constructed of FDA UL Quantum resin, which is hazmat impermeable and x-ray translucent. Its tapered design includes sixteen (16) hand holds, and multiple child and adult strapping locations for ease of use in any situation.

### Spine Board Specifications

<i>Orange</i>	<i>RDA30440</i>	
<i>OD Green</i>	<i>RDA30445</i>	
Weight	13 lbs	5.9 kg
Dimensions (L x W x H)	72" x 16" x 2.25"	182.9 x 40.6 x 5.7 cm

### Accessories

<i>Webbing Set</i>	<i>RDA30460</i>
<i>Buckle Set</i>	<i>RDA30465</i>
<i>Transport Case</i>	<i>RSSB0002</i>



## IMPORTANT

These instructions have been prepared to assist users in the safe and efficient application of all models of the REEVES Sleeve.

The REEVES Sleeve is designed to provide full spinal immobilization when used in conjunction with a long spine board for the purposes of vertical or horizontal extrication. These instructions are product use guidelines only. They are not offered as medical recommendations, or intended to dictate medical care practices, procedures, or techniques. Consult your local medical director, advisor or medical authority for specific medical care techniques, or practices as related to the use of this equipment.

Each user should read these instructions, then practice the procedures of use before actually placing the REEVES Sleeve into regular service. Establish regular inspection procedures and responsibilities to ensure proper maintenance as described. Retain this guide for future reference. Include it with the REEVES Sleeve in the event of transfer to new owners or users. Contact your local distributor for more information on the REEVES Sleeve and other REEVES Products.

## LIMITATION OF LIABILITY

By using a Reeves product, the user agrees that HDT Expeditionary Systems, Inc., its employees, agents, contractors, suppliers, and distributors shall assume no liability for injury of damages arising from the application and use of the REEVES Sleeve. The user assumes all risk of use and all liability related thereto. HDT Expeditionary Systems, Inc. disclaims all warranties, express or implied, including but not limited to any implied warranty of merchantability or fitness for a particular purpose. Use of the REEVES Sleeve will serve as acknowledgment by the user of the terms and provisions of this paragraph.



Contact us at 800-328-5563 for more information on our REEVES® EMS product solutions and services.

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