

## INNOVATIVE VACUUM RESCUE TECHNOLOGY



Safely supported with tried-and-tested rescue technology and strong materials – quality since 1961.





### SERVICE

Close proximity to quick and uncomplicated customer service. Experienced staff give their best every day and are extremely customer-focused. Short delivery times and fast repair service are a matter of course for us.



### INDIVIDUALITY

As a medium-sized company run by entrepreneurs, we don't only offer you the positive qualities of a modern industrial company but also the flexibility of a manufacturer. As such, we are able to respond to our customers' unique identities by making their specific projects a reality.



### QUALITY

The name B.u.W.Schmidt GmbH has stood for the strictest quality standards and highest level of professionalism since 1961. We have made it our goal to produce high-quality products and provide every customer with first-class advice. Our Company is certified according to DIN EN ISO 13485. Of course, all articles comply with the Medical Device Regulation (MDR) and are CE marked.



### RESPONSIBILITY

Our respect and appreciation for people and the environment shape our actions. We have invested heavily in manufacturing and facilities and place great importance on sustainable production. Our production operations are carried out almost entirely with solar power. We provide regular support to social projects and are dedicated to helping disadvantaged children.



## FACTS

- Computer-aided **high-frequency welding system** that uses **1–80 KW** of energy for tools measuring up to **1,500 × 2,500 mm**
- Hand samples available in every size, as well as small and large production runs, custom labels possible
- Custom-made products to meet virtually any demands

Certified by



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## General Information about Rescue Technology

- Specially developed materials
- Short delivery times
- Fast repair service

The emergency services sector never makes compromises when it comes to its demands on quality and durability. Vacuum mattresses and splints have always been part our product range for professional use in emergency services.

Here we use **specially developed materials** that meet all the requirements of today and tomorrow. For the different areas of use in emergency services, we have different product types available to cover just about every practical need. Schmidt's legendary service ensures **short delivery times, fast repair turnaround, and many possible customer-specific solutions**, which in terms of options go far beyond the standard range shown here.

Top-notch quality and workmanship as well as easy handling guarantee the long-term use of our products. Our development and production processes comply with current standards and directives for medical products and are subject to continual inspection and certified in accordance with EN ISO13485.





## OPTIVAC DIN EN 1865-Compliant Rescue Mattresses

Tried. Tested.  
OPTIVAC 2.0 Range

The Optivac Vacuum Rescue Mattresses are the gold standard in terms of quality, **hygiene**, safety, and handling. It is equipped with an **underlay support** made of a sturdy and flame-retardant material and has **14 handle cutouts** all the way around to provide greater flexibility during transport. Optivac Vacuum Rescue Mattresses are furnished with a safety valve with vacuum limiter.

- Extremely sturdy thanks to fabric-reinforced two-component PU film
- **Hygiene:** fully sealed unit for easy cleaning
- No eyelets, belts, ropes (no textile components)
- High visibility: new color scheme
- Maximum compatibility with all standard restraint systems
- Six-chamber system, headrest separately formable
- Radiolucent; suitable for X-rays, CTs, and MRIs
- Automatically closing safety valve; manual closing not required
- Special filling material: high stability, no additional stiffeners
- DIN EN 1865

### OPTIVAC 2.0 #5127

#### Vacuum Rescue Mattress

With permanently integrated underlay support, 14 handle cutouts all the way around as well as three straps for positioning the patient, adjustable and replaceable on both sides in case of a defect, and a head strap.

The Microspace filling ensures the optimal distribution of pressure and shaping.

Dimensions: 80 × 210 cm

Weight: approx. 9 kg

Material: highly flexible PU film

Color: blue (patient side), yellow (exterior), fabric-reinforced two-component PU film



#5127

Reinforced cutout handles

Welded straps

Straps adjustable on both sides

Fully sealed underlay support

### OPTIVAC #5027

#### DIN EN 1865-Compliant Vacuum Rescue Mattress

With permanently integrated underlay support, 14 handle cutouts all the way around as well as three straps for positioning the patient.

Dimensions: 80 × 210 cm

Weight: approx. 9 kg

Color: High-visibility yellow/dark blue

### OPTIVAC #5027

#### DIN EN 1865-Compliant Vacuum Rescue Mattress

· Single-folded 100 × 73 × 16 cm

· Double-folded 80 × 73 × 22 cm



Double-folded



Separate head cushion #5046 for use on all vacuum mattresses or on its own



## OPTIVAC Head Cushion



### OPTIVAC HEAD CUSHION

#### Triangle-Shaped Vacuum Head Cushion

Leg length: 40 × 40 × 50 cm

This additional cushion is the ideal way to secure the head and neck area comfortably. Made of soft PU film, filled with our tried-and-tested Microspace styrofoam, available in different colors.

Suitable both as a stretcher or as an extra support on the vacuum mattress.

■ #5046 Blue

Additional colors

■ #446470-6 Red

■ #446470-7 Orange

## EURO DIN EN 1865 - Compliant Vacuum Rescue Mattresses

Rescueform® EURO Vacuum Rescue Mattresses set standards in quality, safety, and handling. From the simple DIN EN 1865-compliant rescue mattress to the rescue mattress with five-point strap system, these models are designed for every conceivable application and location.

All models feature an **underlay support** made of a sturdy and flame-retardant material and have **14 handle cutouts** all the way around to provide greater flexibility during transport. All Rescueform® EURO Vacuum Rescue Mattresses are outfitted with a safety valve.



#5024



#5988

### Rescueform® #5024 EURO DIN EN 1865-Compliant Vacuum Rescue Mattress

With the detachable underlay support, leg strap, and integrated five-point restraint system with a central lock to release patients from the straps in mere seconds just like in the cockpit of a Formula 1 car.

The padded leg spreader wedge reduces the sensation of pressure for patients. This system makes it possible to safely rescue patients on inclines, for example, in narrow stairwells or on mountain slopes, without putting patients under extra strain.

Dimensions: 80 × 210 cm

Weight: approx. 11 kg

Color: Orange/blue

### Rescueform® #5988 EURO DIN EN 1865-Compliant Vacuum Rescue Mattress

An ideal mattress for basket stretchers, rescue basket stretchers, & Co. but also for stand-alone use as a vacuum mattress in rescue missions. Equipped with an integrated underlay support, this mattress is ideal for basket stretchers, rescue basket stretchers, & Co. but also for stand-alone use as a vacuum mattress in rescue missions.

Equipped with three patient straps.

Head strap separately available, #90442

Available with and without openings for the leg spreader wedge.

Dimensions: 80 × 200 cm

Weight: 10 kg

Color: Orange/blue

■ Without opening for leg #5989



## STANDARD Vacuum Rescue Mattresses

### Rescueform® #5010

Vacuum Rescue Mattress  
with All-Around Lifting Strap

Dim.: 75 x 200 cm | Weight: approx. 7.5 kg

Color: Orange

### Rescueform® #5012

Vacuum Rescue Mattress with  
All-Around Lifting Strap (not shown)

Dim.: 55 x 190 cm | Weight: approx. 5.5 kg

Color: Orange

### Rescueform® #5986

Vacuum Rescue Mattress with  
Integr. Handle Strip (5 handles per side)

**Great value for money (export)**

Dim.: 95 x 200 cm | Weight: 10 kg

Color: Orange/blue

**Rescueform® Strap Set #90400 Set**  
for Rescueform® Vacuum Mattresses  
#5010 / #5012

One set of straps (3 pieces) with buckle  
closures to secure patients

Strap length: 180 cm each

Rescueform® Standard Vacuum Mattresses provide very good **thermal insulation** thanks to their filling capacity. They feature a lifting strap all the way around the mattress with integrated handles to ensure flexible and comfortable carrying. Outfitted with a safety valve with vacuum limiter and built-in filler neck.



## Rescueform® Vacuum Overlays for Stretchers

### Rescueform® #5040

Dim.: 75 x 200 cm | Weight: approx. 5.5 kg

Color: Orange

### Rescueform® #5050

Dim.: 65 x 200 cm | Weight: approx. 4.5 kg

Color: Orange

Protective Covers with Six Handles  
(additionally usable as a sling)

- for #5040: Rescueform® #5041
- for #5050: Rescueform® #5051

Protective Covers with Six Handles  
and Three Straps with Plug-in Locks  
to secure patients:

- for #5040: Rescueform® #5042
- for #5050: Rescueform® #5052

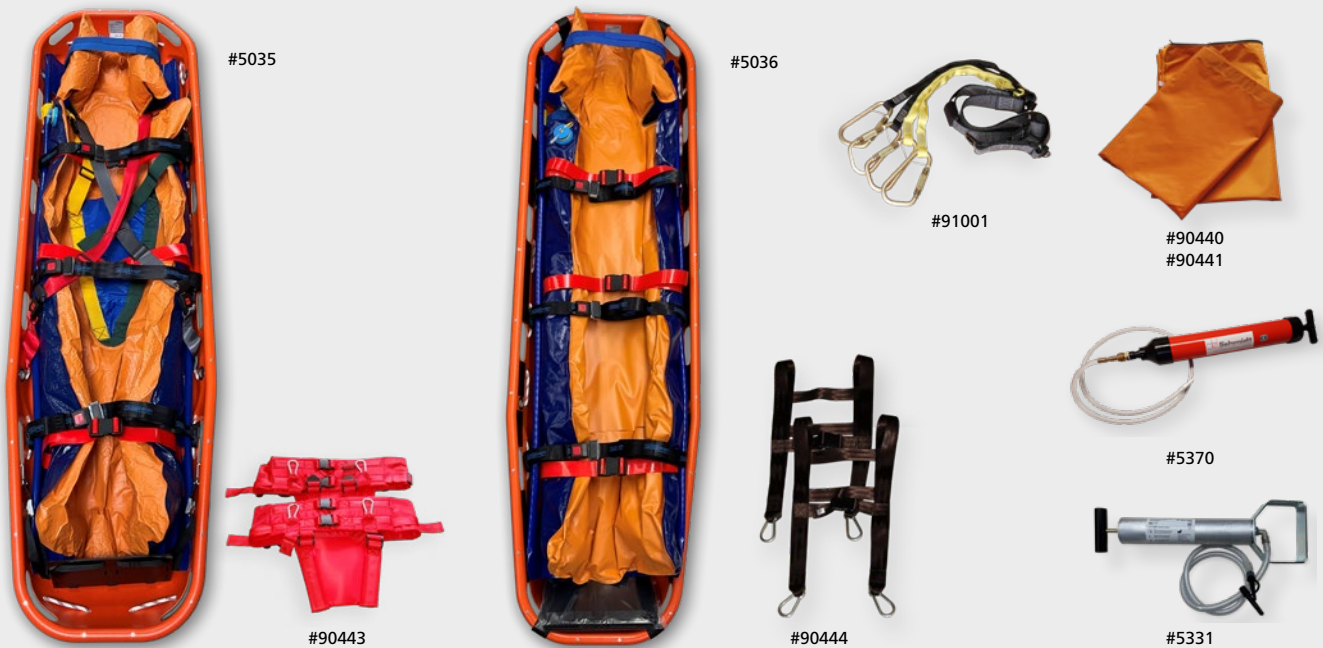
Rescueform® Vacuum Overlays are carried by holding the handles on a protective cover made of flame-retardant nylon. The vacuum overlays are made of fabric-reinforced and flame-retardant film and have a safety valve with vacuum limiter.



## Specially Equipped Rescue Basket Stretchers

The Rescueform® Rescue Basket Stretchers have been approved by the maritime/shipping industry trade associations.

Rescueform® Rescue Basket Stretchers meet the requirements of health care regulations and are used in situations where it is not possible to ferry injured persons by traditional means of transport. They are predetermined for use in pits, shafts, and caves, as well as ships, vessels, construction sites, and mountain rescue missions. Rescueform® Rescue Basket Stretchers can also be used as **drag basket** or as a **vertical/horizontal lowering/raising litter (only #5035)**.



### Rescueform® #5035

#### Specially Equipped Rescue Basket Stretcher

Dimensions: 62 × 218 × 19 cm

Weight: 29 kg

Color: Orange (basket stretcher)

Includes three patient straps and a removable footrest

#### Special equipment includes:

- Lifting gear incl. carabiners #91001
  - Color-coded, replaceable restraint system including a special strap (leg spreader wedge) for vertical rescue #91077
  - Vacuum mattress with integrated underlay support, opening for leg spreader wedge, headrest, three patient straps and a head strap #5988
- Fully sealed unit for easy cleaning

- Two adjustable, padded harnesses, red #90443
- Patient drape (splash protection) #90441
- RV L-shaped protective bag for the entire unit #90440
- Aluminium vacuum pump with foot bracket #5331

### Rescueform® #5036

#### "Light" Rescue Basket Stretcher

Dimensions: 62 × 218 × 19 cm

Weight: approx. 27 kg

Color: Orange (basket stretcher)

Includes three patient straps and a removable footrest

#### "Light" stretcher equipment includes:

- Lifting gear incl. carabiners #91001
- Vacuum mattress with integrated underlay support, headrest, three patient straps and a head strap #5989
- fully sealed unit for easy cleaning
- 2 harnesses, black #90444
- Patient drape (splash protection) #90441
- RV L-shaped protective bag for the entire unit #90440
- PVC hand vacuum pump #5370



## Rescueform® Vacuum Splints

Rescueform® Vacuum Splints make it possible to gently secure extremities, without exerting any pressure on blood circulation. Rescueform® Arm and Leg Splints are available in various sizes for different patient groups. They are radiolucent and adjust to any fracture.



### **OPTIVAC 2.0 #5164**

#### **Vacuum Arm Splint**

Four-chamber system, angular design with three replaceable Velcro straps. Open to use as vacuum cushion, valve for one-handed operation.

Length: 60 cm, Color: Blue/yellow

### **OPTIVAC 2.0 #5184**

#### **Vacuum Forearm Splint**

One-chamber system, open to use as hand or head cushion, with two replaceable Velcro straps, valve for one-handed operation.

Dimensions: 55 × 35, Color: Blue/yellow

### **OPTIVAC 2.0 #5174 und #5175**

#### **Vacuum Leg Splint**

Three-chamber system with footrest, can be unfolded/opened on the foot with four press buttons, with four replaceable Velcro straps, valve for one-handed operation, Color: Blue/yellow

Length: 90 cm #5174

Length: 75 cm #5175

### **OPTIVAC 2.0 #5194**

#### **Vacuum Splint Set**

Includes:

- Arm splint #5164
- Leg splint #5174
- Forearm splint #5184
- Hand pump #5370
- Bag #5191T



### **Rescueform® #5143**

#### **Multisoft Vacuum Arm Splint**

Chamber system, with three Velcro straps for fastening. Additionally usable as a vacuum cushion.

Dimensions: 70 × 46 / 30 cm, Color: Red

### **Rescueform® #5133**

#### **Multisoft Vacuum Forearm Splint**

Chamber system, with two Velcro straps for fastening. Additionally usable as a vacuum cushion.

Dimensions: 45 × 35 cm, Color: Red

### **Rescueform® #5153**

#### **Multisoft Vacuum Leg Splint, Short**

Chamber system, with three Velcro straps for fastening. Additionally usable as a vacuum cushion.

Dimensions: 70 × 63 / 50 cm, Color: Red

### **Rescueform® #5163**

#### **Multisoft Vacuum Leg Splint, Long**

Chamber system, with five Velcro straps for fastening. Additionally usable as a vacuum cushion.

Dim.: 105 × 68 / 40 cm, Color: Red

### **Rescueform® #5193**

#### **Multisoft Vacuum Splint Set**

Includes:

- Forearm splint #5133
- Arm splint #5143
- Short leg splint #5153
- Long leg splint #5163
- Hand pump #5370
- Bag #5193T



### **Rescueform® #5131**

#### **Vacuum Arm Splint**

Four chamber system, angular design with three Velcro straps for flexible fastening.

Length: 75 cm, Color: Orange

### **Rescueform® #5171**

#### **Vacuum Leg Splint**

Three-chamber system, with footrest and four Velcro straps, can be unfolded/opened on the foot with three press buttons and can also be used as a vacuum cushion, for example, for the back or for positioning a child.

Length: 90 cm

Color: Orange

### **Rescueform® #5191**

#### **Vacuum Splint Set**

Includes:

- Arm splint #5131
- Leg splint #5171
- Hand pump #5370
- Bag #5191T



### **Hand Vacuum Pump (#5370)**

Plastic, 45 cm in length  
Red color

## KIDDY Child Restraint System

The Kiddy system offers maximum safety and comfortable positioning of children during transport. The system protects against forces from all directions by adjusting the position on the integrated vacuum mattress.



### Rescueform® #5800

#### Kiddy System (complete)

Includes:

- Safety cover with harness system #5801
- Vacuum mattress (#5802)
- Cover for vacuum mattress (#5803)
- Bag #5804T

### Rescueform® #5801

#### Kiddy Safety Cover with Complete Harness System

### Rescueform® #5802

#### Kiddy Vacuum Mattress

### Rescueform® #5803

#### Kiddy Cover for Vacuum Mattress

### Rescueform® #5804T

#### Kiddy Bag

## Rescueform® Vacuum Splints for Children

The careful transport of children involves greater requirements for emergency services and the equipment it uses. The Rescueform® Vacuum Splint System for Children allows bone fractures to be secured with a splint in a child-friendly manner without having to adjust the size of adult systems.



### Rescueform® #5135

#### Vacuum Arm Splint, Size 1

Suitable for children up to 5 years of age

Material: PU film

Color: Red



### Rescueform® #5136

#### Vacuum Arm Splint, Size 2

Suitable for children up to 11 years of age, can also be used as leg splint for infants

Material: PU film

Color: Red



### Rescueform® #5138

#### Vacuum Splint Set for Children

Includes:

- Child's arm splint, size 1 #5135
- Child's arm splint, size 2 #5136
- Bag #5215T

## Rescueform® Rollboard – The Transfer Aid

### Rescueform® #5230 and #5229 Long Rollboard

Foldable transfer aid  
with two handles  
Dimensions: 45 × 100 cm  
Available in two versions

**#5230:** Yellow color, cover made of  
fabric-reinforced PVC/PU film

**#5229:** Blue color, nylon cover

### Rollboard Bag #5230t (not shown)

For folded Rollboard #5230  
Color: Orange (nylon)

### Rescueform® #5235 and #5228 Short Rollboard

Compact, one-piece transfer aid for easy  
lengthwise storage under the stretcher  
Dimensions: 45 × 70 cm  
Available in two versions

**#5235:** Yellow color, cover made of  
fabric-reinforced PVC/PU film

**#5228:** Blue color, nylon cover



## NECLOC Cervical Head Restraints



Example of  
child size



Example of  
adult size  
#5714

The NECLOC immobilizes the cervical spine completely with its two half segments. It can be put on fast, easy, and precisely, without having to move the patient. The material is radiolucent and can be easily adjusted even at low temperatures. The Velcro fastener shows virtually no signs of wear. The black foam padding is easy to clean and has no stain markings after cleaning. The large trachea opening allows for the carotid artery pulse to be felt and for a tracheotomy to be carried out properly.

### NECLOC Size 2 #571 – Small

Color: Green

### NECLOC Size 3 #5712 – Medium, placed underneath

Color: Dark blue

### NECLOC Size 4 #5713 – Small

Color: Yellow

### NECLOC Size 5 #5714 – Medium Standard

Color: Orange

### NECLOC Size 6 #5715 – Large

Color: Light blue

### Child sizes:

**#5701** 0–2 years of age

**#5702** 2–6 years of age

**#5703** 6–12 years of age

### NECLOC Cervical Head Restraint Set #5700

Includes: #5701, #5711, #5712, #5713,  
#5714, #5715, #5700T

### NECLOC Cervical Head Restraint Set #5705

Includes: #5711, #5713, #5714, #5705T



## Rescueform® Rescue Sheets

Rescueform® Rescue Sheets are made of acrylic-coated nylon and are additionally stabilized lengthwise and crosswise by end-to-end straps.

Rescueform® Rescue Sheets are robust, dirt-repellent, disinfectant-resistant, and washable.



### Rescueform® #5210

#### Rescue Sheet with Ten Handles

Three handles each on longitudinal sides and two handles each on the head and foot ends

Dimensions: 70 × 200 cm

Color: Orange

### Rescueform® #5211

#### Rescue Sheet with Ten Handles and Footmuff

The footmuff makes a fast rescue by just one emergency responder possible.

Dimensions: 70 × 200 cm

Color: Orange



### Rescueform® #5212

#### DIN EN 1865-Compliant

#### Rescue Sheet with Six Handles

Three handles each on longitudinal sides

Dimensions: 70 × 200 cm

Color: Orange

### Rescueform® XXL #5214

#### Rescue Sheet with 22 Handles

Seven handles each on longitudinal sides and four handles each on the head and foot ends

Dimensions: 110 × 200 cm

Color: Orange

Load capacity: up to 320 kg

## Rescueform® Accessories and Spare Parts

Please feel free to call us if you don't see the spare part you are looking for.

### CARRYING BAGS:

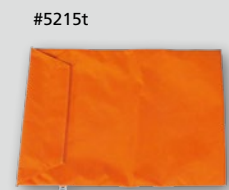
All bags are made of robust nylon.



**Carrying Bag #5191T**  
for splint sets



**Carrying Bag #5019T**  
for all rescue mattresses



**Carrying Bag #5215T**  
for rescue sheets and child splint sets

**Carrying Bag #5193T** (not shown)  
for the Multisoft Vacuum Splint Set



**Rescueform® Repair Set #5400**  
For all Rescueform® products made from PVC film; includes repair films and special adhesives



**Red Repair Set #5195**  
For products made from PU film; includes repair films and special adhesives



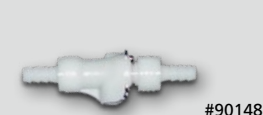
**OPTIVAC Repair Set #5180**  
For all Optivac products made from PU film; includes repair films and special adhesives

### REPAIR SETS:



**Blue Replacement Safety Valve #50 with Vacuum Limiter**

The safety valve ensures safe and easy handling. The valve automatically closes after vacuum release. Suitable for CTs, radiolucent



**Grey Replacement Safety Valve #51**

Made from impact-resistant POM plastic; suitable for MRIs and CTs, radiolucent

**CPC Inline Replacement Valve #90148**

For one-hand operation, can be used for both vacuum and pressure

### REPLACEMENT-VALVES:

### PUMPS:



**Plastic Vacuum Pump #5370**  
For vacuum cushions and splints  
Length: 45 cm  
Color: Red



**Metal Vacuum Pump #5331**  
Robust hand/foot pump made from aluminum  
Length incl. foot: 48 cm  
Color: Silver

As the exclusive  
manufacturer,  
B.u.W. Schmidt GmbH  
presents:

## MOB RESCUE SYSTEM

in accordance with IMO Guide for Cold Water Survival  
(MSC 1/Circ. 1185/Rev. 1 and MSC 1 / Circ. 1147)



**M1 BACKPACK**



**MOJE M1**



**M1 KOFFER**

### PRODUCT INFO

The rescue and recovery system MOJE M1 was developed in Germany in accordance with the IMO Guide for Cold Water Survival (MSC 1/Circ. 1185/Rev.1). It makes a three-phase recovery possible.

It includes:  
Color: High-visibility yellow  
Case dimensions  
(high-visibility yellow):  
L x W x H: 465 x 350 x 175 mm  
Weight with case: 9.5 kg

Buoyancy up to 2400 N,  
supports two adults.  
Complete with recovery strap  
system for hoisting.

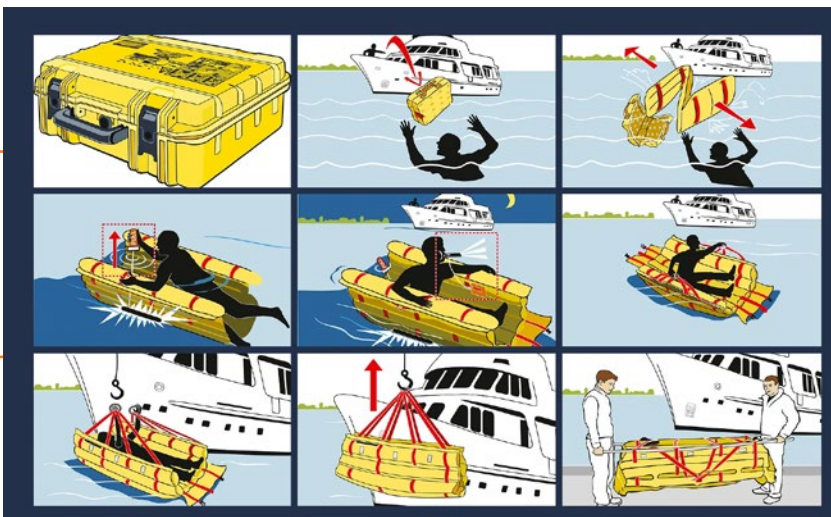
### RESCUE POSSIBLE IN ANY SITUATION

- Ready for immediate use, even in strong seas
- Protection against hypothermia
- Prevents afterdrop
- Easy to rescue people without any risk of injury
- High load capacity
- Practical integrated rescue harness

1. Rescue a person from drowning and prevent them from getting hypothermia by rescuing them out of the water as quickly as possible

2. Rescue a person from the water in a horizontal position (air chambers protect against injuries caused by crashing into the side of the ship)

3. Transport and storage without risky repositioning (protection against circulatory collapse or afterdrop)



The outer tubes are self-inflating, while the inner tubes act as sea anchors.

Pulling the trigger inflates the internal tubes. Doing this will lift the person out of the cold water.

The rescued person can remain in the rescue system for transport and further medical treatment. Unnecessary complications and cardiac arrest (caused by afterdrop) can be prevented as a result.



# Ad

## MOB RESCUE SYSTEM



The **MOJE M1** also complies with the safety guidelines for traditional ships. Pursuant to Paragraph 6 of the Ship Safety Guidelines of the German Federal Ministry of Transport, Building, and Urban Affairs, a suitable rescue aid is stipulated for traditional ships that require authorization and do not operate a launch (rescue) boat.

### HOW IT WORKS:

The self-inflating **MOJE M1** is stored very compactly in an impact-resistant, waterproof plastic case. In an emergency situation, the folded **MOJE M1** is thrown to a person floating in the water. The two load-bearing outer chambers then automatically self-inflate. The casualty swims between these chambers and then manually triggers the inflation of the six carrier

chambers positioned between the two outer chambers.

This causes the **MOJE M1** to unfold to a size of **2.0 x 1.80 m**. The person is lifted out of the water and brought to a safe floating position. The insulating effect protects the person from getting hypothermia through contact with the water.

With the integrated recovery strap system with ring eyelets, the casualty can be safely hoisted onto the deck in a horizontal position, which prevents circulatory shock from occurring even when there is a higher freeboard (with a lifting device, for example, attached to a tree or halyard). The system assumes the role of a rescue stretcher with the aluminum carrier bar set, which is available as an accessory.

The necessary horizontal position is thus guaranteed throughout the rescue chain, without any dangerous repositioning! Suitable for use on board, on hydraulic engineering structures (e.g., locks), or for use by rescue services and fire departments. The system is also very suitable for ice rescue.

**For questions about the product or about orders, please contact:**

[www.Moje-Rettungssysteme.com](http://www.Moje-Rettungssysteme.com)  
[info@moje-rettungssysteme.com](mailto:info@moje-rettungssysteme.com)

Cell phone: +49 151 2700 4937

Harburger Straße 31,  
21614 Buxtehude



## OUR OTHER PRODUCT RANGES

### VACUFORM® 2.0 ■ OR storage concept

Redefined and critical patient comfort. Perfect adjustment and optimal pressure relief thanks to the special Microspace System.



### THERMOFORM® ■ Cold and heat therapy

High-quality and durable products for cold and heat therapy for clinics, physiotherapy, and home care..



### 4FORM®

#### ■ Rehab and physiotherapy

Rehab and physiotherapy products such as swimming aids, vacuum cushions, and sandbags in various designs and much more.



### VETFORM®

#### ■ Equipment for veterinarians

Products for vet clinics that ensure animal safety and comfort.



### YOURFORM®

#### ■ Custom-made products

Custom-made products and individual product development in collaboration with our customers are part of our day-to-day business.



### EQUIFORM

#### ■ Products for the equestrian sport

Smart and durable products for optimal training and safe horse keeping.



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B.u.W. Schmidt GmbH



YOUTUBE  
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[www.buwschmidt.com](http://www.buwschmidt.com)



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and emergency services

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