



LIFEJACKETS

PROFESSIONAL







# SECUMAR LIFEJACKETS AT WORK



SECUMAR lifejackets are used to hard work!  
Designed and developed for long-term use over water,  
whether inland or offshore.

**S**ECUMAR specialises in meeting the unique technical demands our customers place on commercial lifejackets. We produce all Personal Protective Equipment (PPE) solutions to protect one from drowning. The most important criterion next to wearer comfort is the functional security of the device. For that reason we are the only lifejacket manufacturer in the world that develops and produces its own valves, buckles and inflator mechanisms.

We employ a 100% materials and component testing regime and the production facility is regularly audited by outside independent institutions. SECUMAR products are renowned worldwide backed up with an international network of authorised service agents.

#### **Bernhardt Apparatebau in brief:**

- Founded in 1926 – with lifejackets being produced since the early 1950s
- SECUMAR brand launched in 1961
- SECUMAR BS8 auto lifejacket dramatically reduced the number of drownings on commercial inland waterways in the 1970s
- SECUMAR lifejackets adopted by the DGzRS (German Lifeboat Service), DLRG (German Life Saving Association), many fire brigades and other professional organisations.
- SECUMAR operates a worldwide distribution and service network.
- Specialist in integrated safety systems, e.g.: lifejackets with integral fall-arrest harness and transmitter.

# THE PINNACLE OF TECHNOLOGY



The constant theme at SECUMAR is continual innovation and development.

---

**M**odern immersion suits with buoyancy in different places require new solutions from lifejackets. The patented 3D buoyancy chamber and twin chamber technology offer faster turning moment in the water and is unique worldwide. SECUMAR lifejackets also feature highly specialised components such as SECUMATIC inflator mechanisms with SECUMAR soluble 'pills' and red/green status indicators that are easy and simple to check. All clips and buckles are developed in-house and individually checked. Specialist outer covers can be installed to offer the best protection depending on end-use.









Breathable, waterproof work and survival suit  
with integral fall-arrest harness



Breathable, waterproof undersuit –  
wearable under normal work clothing

# COMPLETE TECHNICAL SYSTEMS

Electronic emergency alarm and tracker systems are an important development for lifejackets, offering an extra active safety feature.

In order for the complete system to function correctly the lifejacket and transmitter must be compatible and both be automatically activated so they do not work against each other. The transmitter's antenna should reliably deploy and must not have sharp edges that could cut or chafe the cover or buoyancy chamber, effectively destroying the lifejacket.

Its operation should not hinder in anyway the function of the lifejacket. SECUMAR has spent considerable time researching and testing products from many leading suppliers to find the best suited models for integrating into its products thus ensuring compatibility between lifejacket and transmitter. This is an essential requirement of our strict safety standards.

## Development and manufacture of specialist suits

SECUMAR products can later become modular elements within a combination system such as a fall-arrest harness or protective suit. For decades now, SECUMAR has worked on the relationship between lifejackets and clothing and how they interact in water, particularly when air is trapped in the clothing, but still maintaining the ability to turn the

casualty onto its back. A perfect example of this is the SECUMAR cold protection system where it was recognised in the early concept phase that a well-designed combination of the individual properties of the lifejacket and cold protection suit would offer more than the simple sum of the two components.







# SERVICE AND MAINTENANCE



Regular maintenance ensures their status but even lifejackets age.

In the interim they must be checked at least every two years (SOLAS lifejackets annually) but your designated safety officer may shorten the service intervals substantially – depending on the usage of the lifejackets and the environment, in some cases to several months. The official SECUMAR service provides leak testing of the buoyancy chamber and functional testing of the overall system, in particular the fully automatic inflation system.

Also: spare parts, repairs and retrofitting (replacement CO<sub>2</sub> cartridges, reflective strips, emergency lights, spray hoods, neck fleece). SECUMAR service is available at SECUMAR Service Centres around the world. For your own safety you should check that your lifejacket is equipped with an original SECUMAR service label which ensures that your lifejacket has been serviced by a qualified and authorised service station.

## JUST LIKE TRAFFIC LIGHTS: GREEN FOR GO!

An easy to use special feature of the patented SECUMATIC 4001S inflator is the single marker (visible through the window in the outer cover) that tells you that the CO<sub>2</sub> cartridge is fully charged and the inflator is ready-to-use.



# WHICH LIFEJACKET IS THE RIGHT ONE

The list of possible requirements for a lifejacket is as big as the number of jobs it can be used for. But one lifejacket cannot do everything, so the big question is "Which is the right lifejacket for me?". To best answer this, one needs to look carefully at its aspect of deployment.

## What is the intended use?

Inland or offshore, fire-fighting, hauling crab pots or light-house keeper – the more precise the application, the easier it is to make the choice.

## Which 'Approval' is required?

CE and/or SOLAS – legal, official and operational requirements narrow the choice further.

## What clothing will be worn?

Light work overalls or heavy foulweather gear determines how much buoyancy a lifejacket will need and the table below gives an overview.

SECUMAR has a lifejacket in its range suitable for every purpose but should you find a new one – we are the specialists for finding that special solution!

## THE FOUR PERFORMANCE LEVELS



### 50N Buoyancy Aid

For regular swimmers near shore or means of assistance, not suitable for unconscious persons. This is not a lifejacket!



### 100N Lifejacket

For use in inland and protected waters. Not suitable for unconscious persons.



### 150N Lifejacket

For use in all waters and for unconscious persons unless wearing heavy or waterproof clothing.



### 275N Lifejacket

For use in all waters and for unconscious persons, especially in heavy conditions and when wearing heavy or waterproof clothing.





# IF IT HAPPENS TO YOU, YOUR LIFE COULD DEPEND UPON OUR QUALITY

## REMOVAL OF ERROR – SECUMAR QUALITY MANAGEMENT

SECUMAR quality management underlies the strict regulations of international standard ISO 9001 and is checked annually by two outside certification agencies, both for quality systems and PPE (Personal Protective Equipment). Additionally and independently, all SECUMAR products are subject to a computer based quality control regime that includes the 100% testing of all the safety related components such as inflatable buoyancy chamber, inflator mechanism, activation 'pill', CO<sub>2</sub> cylinder and installation.

The basic preconditions for this high level of quality are complex, and the design, construction and manufacture of components and its lifetime guarantee of functionality come from years of experience. Our extensively tested quality is documented by the FSR Seal of Quality fitted on SECUMAR products. The FSR awards the seal to its members for authorized standard products.

For more information see [www.fsr.de.com](http://www.fsr.de.com)



CE-Wheel mark: PPE in conformance with MED Marine Equipment Directive 93/96/EEG and approved to SOLAS/IMO regulations for marine rescue equipment.



PPE in conformance with Directive 89/686/EEG, type-approved to EN standards and/or DIN EN ISO 12402.

## THE ROUTE FROM SPECIALIST TO SYSTEM INTEGRATOR

The demands from the commercial world for Personal Protective Equipment (PPE) are ever changing and so SECUMAR changes with it. The modern workplace requires complex integrated systems that offer more than one function to deal with the different risks encountered. SECUMAR has therefore addressed this requirement and developed its world renowned lifejackets to incorporate compatible components such as fall-arrest harnesses, transmitter or cold protection. SECUMAR offers single solutions along with its well-known and jealously guarded quality.

### SECUMAR Systems' important advantages:

- Each part of the module is compatible with each other so they will all fit and work together. By design!
- Decades of experience of fulfilling specifications and meeting regulations. Your safety is certified!
- Continual research and development.

Technical and material improvements are quickly incorporated.

- Intensive, high quality service. Careful maintenance helps maintain performance.



Bernhardt Apparatebau GmbH u. Co.  
Lifesaving Equipment for Sea and Air  
PO Box 1190, D-25487 Holm, Germany  
Tel.: +49 (4103) 125 - 0 · Fax: +49 (4103) 125 - 100  
[www.secumar.com](http://www.secumar.com)