

**SHM**

Safe Seas Safe Shores

**COMPANY PROFILE**





## LIFE SAVING APPLIANCES

### SERVICES

#### 1. LIFE BOAT / DAVIT SERVICING

Lifeboats are undisputedly the most important maritime safety tool, placed on all sorts of ships, rigs, platforms and other marine-related structures. Periodic inspections and maintenance of Lifeboats are critical to prevent life boat accidents that cause major injuries and may even result in fatalities. SHM is a full-service provider with regulatory certification, OEM-trained technicians and OEM engineering support that is required to provide you complete the lifeboat services you need as per IMO 1206.

In fact, SHM Ship care is a pioneer for introducing the concept for Periodic Inspections, Servicing and Maintenance of Lifeboats, its launching appliances, and release gears. We were the first company to become the authorized service partner for Harding, Norsafe and 30 more OEM's.

#### ANNUAL/FIVE YEARLY INSPECTION & MAINTENANCE

Why choose “**SHM SHIPCARE**” for the Annual / Five Yearly Inspection & Maintenance:

- ✓ With our OEM partnerships and authorizations, we provide access to genuine spare parts.
- ✓ Well-equipped with the latest, effective load testing gear for conducting inspections on ships and offshore assets.
- ✓ Experienced in complying with latest SOLAS 1206, REV.1, 1277 regulations.
- ✓ Provide approved and authorized service engineers to service equipment onboard vessels and offshore installations.
- ✓ Furnish an illustrative Checklist and Serviceability Certificate for verification and record of Ship-Owners and Class Surveyors.



## REFURBISHMENT

Refurbishments are the most economical way of augmenting and preserving the lifespan of Lifeboats and their related equipment.

### Why choose “**SHM SHIPCARE**” for Refurbishment:

- Engine overhauling, servicing or renewal
- FRP repairs incorporating approved repair procedures, using class approved resins, mats, paints, and gel coat systems
- Conserving and Renewing the Hull and body of the Lifeboat by curing Osmosis
- Servicing the Release Gear System
- Overhauling and servicing of Sprinkler System
- Hydrostatic testing and refilling of compressed air systems

We are equipped with a wet basin to conduct performance trials of the Lifeboats after refurbishment. We also offer replacement equipment for hire during the overhaul stage, subject to availability.

## INSTALLATION & COMMISSIONING OF LIFEBOAT

We have successfully supplied, installed, and commissioned Lifeboats, Rescue Boats, Davits, and Winches to various Shipyards and Offshores.

### Why choose “**SHM SHIPCARE**” for the Installation and Commissioning of Lifeboat Systems:

- We have the technical expertise and extensive experience in installation of Lifeboat Systems, and troubleshooting on-board
- With OEM support and assistance during the time of installation, we provide one-stop solution for our clients and save service time during commissioning of equipment
- We have all the necessary OEM audited Tools, Tackles, and specialized equipment readily available for installation and commissioning.
- With the assistance of our Ship Repair team, we can install Survival Crafts with a fleet of Class Approved Welders and Drawings

## HOOK REPLACEMENT

In order to prevent Lifeboat accidents and premature release of On-load hook systems, IMO has issued a new regulation **IMO 1392**. This regulation provides information on change of on-load hooks to new specification release hooks for all lifeboats. This regulation helps simplify the operation and maintenance of hook systems as they now contain lesser moving parts, minimizing wear and tear.

All ships will need to assess their RRS systems no later than July 1, 2014:

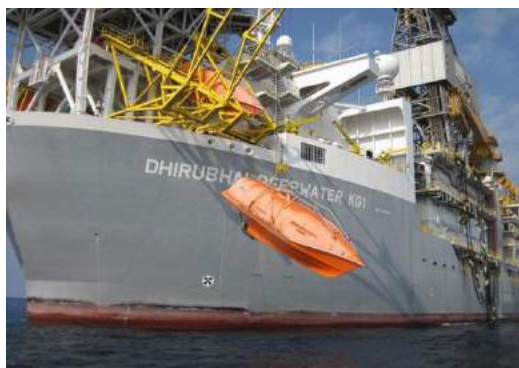
1. If found compliant, then a onetime follow-up overhaul examination of the RRS is to be conducted by the OEM, in presence of class
2. If not found compliant; then hook system should be replaced in the next scheduled dry dock after July 1, 2014, but no later than July 1, 2019

The hook assessment can be clubbed with the Annual or 5-yearly inspection.

Non-compliant hook systems need to be replaced with compliant ones from the WIDE list of IMO (A list of approved hook designs of different OEMs).

## Why choose "SHM SHIPCARE" care for Hook Replacements as per IMO regulation 1392:

- ✓ We have the technical expertise and extensive experience in installation and renewal of Hook Systems in compliance with the IMO 1392 regulation.
- ✓ We have all the necessary OEM audited Tools, Tackles, and specialized equipment readily available for installation and commissioning.
- ✓ With OEM support and assistance, we are a one-stop solution for our client's needs.
- ✓ We possess the infrastructure to conduct hook replacements on-board vessels and offshore installations, during dry docking, or at our approved workshops across India.



We offer the following range of Lifeboats, Davits & Winches, and Lifeboat Accessories:

### Lifeboats

- Totally Enclosed Lifeboat
- Totally Enclosed Lifeboat (tanker version)
- Totally Enclosed Freefall Lifeboat
- Partially Enclosed Lifeboat

### Davits & Winches

- Gravity Luffing Arm Type Davit
- Launching Appliance for FreeFall Lifeboat/ Rescue Boat
- Platform Davit
- Gravity Rolling Type Davit
- Single Arm Slewing Boat/ Raft Davit
- Life Raft launching Davit
- Electric Boat Winch

### Lifeboat Accessories

- Release Hooks for Lifeboats (as per new regulation 1392)
- Release Hooks for launching Life Rafts
- Release Hooks for Rescue Boat
- Recovery Strap and Hanging of Pendants
- Fall Preventive Device as per IMO 1327

SHM Shipcare is the sole authorized distributor and service partner for Harding & Norsafe, the global market leader in marine life saving systems. We offer Harding Lifeboat Systems along with their Davits for offshore, merchant and cruise vessel as well.

**Authorized Distributor / Service Partner for more than 30 OEMS**







## 2. LIFE RAFT & RESCUE BOAT SERVICING

Why choose “**SHM SHIPCARE**” for your Life Raft and Rescue Boat Servicing needs?

- ✓ We conduct "Cradle-to-Cradle" Servicing of Life Rafts for our clients, who help reducing their work load and helps us ensure superior quality service.
- ✓ We are authorized by over twelve OEMs to service their Life Rafts
- ✓ We have a team of OEM qualified engineers and skilled technicians strongly committed to fulfill your service needs.
- ✓ We possess the infrastructure and approvals to conduct services of other [Life Saving Appliances](#), [Fire Fighting Appliances](#).
- ✓ We also undertake Annual Maintenance Contracts and Fleet Service Agreements with Shipping Companies to fulfill their Service requirements as well

We are authorized by the following **OEMs** to service their Life Rafts at our all-encompassing service stations across Indian Ports.

- SHM Shipcare
- RFD Survisa
- RFD Toyo
- DSB Deutsche Schlauchboot GmbH
- Viking
- Fujikura Rubber Ltd.
- CSM Shanghai Star Rubber Products Co. Ltd.
- Shanghai Youlong Rubber Products Co. Ltd.
- Jiangsu Haining Marine Equipment Plant
- CRV

These OEM Life Rafts include Throw Over Board, Davit Launch able, and other types of Life Rafts manufactured by these **OEMs**.



**Authorized Distributor / Service Partner For:**



**CSM**®



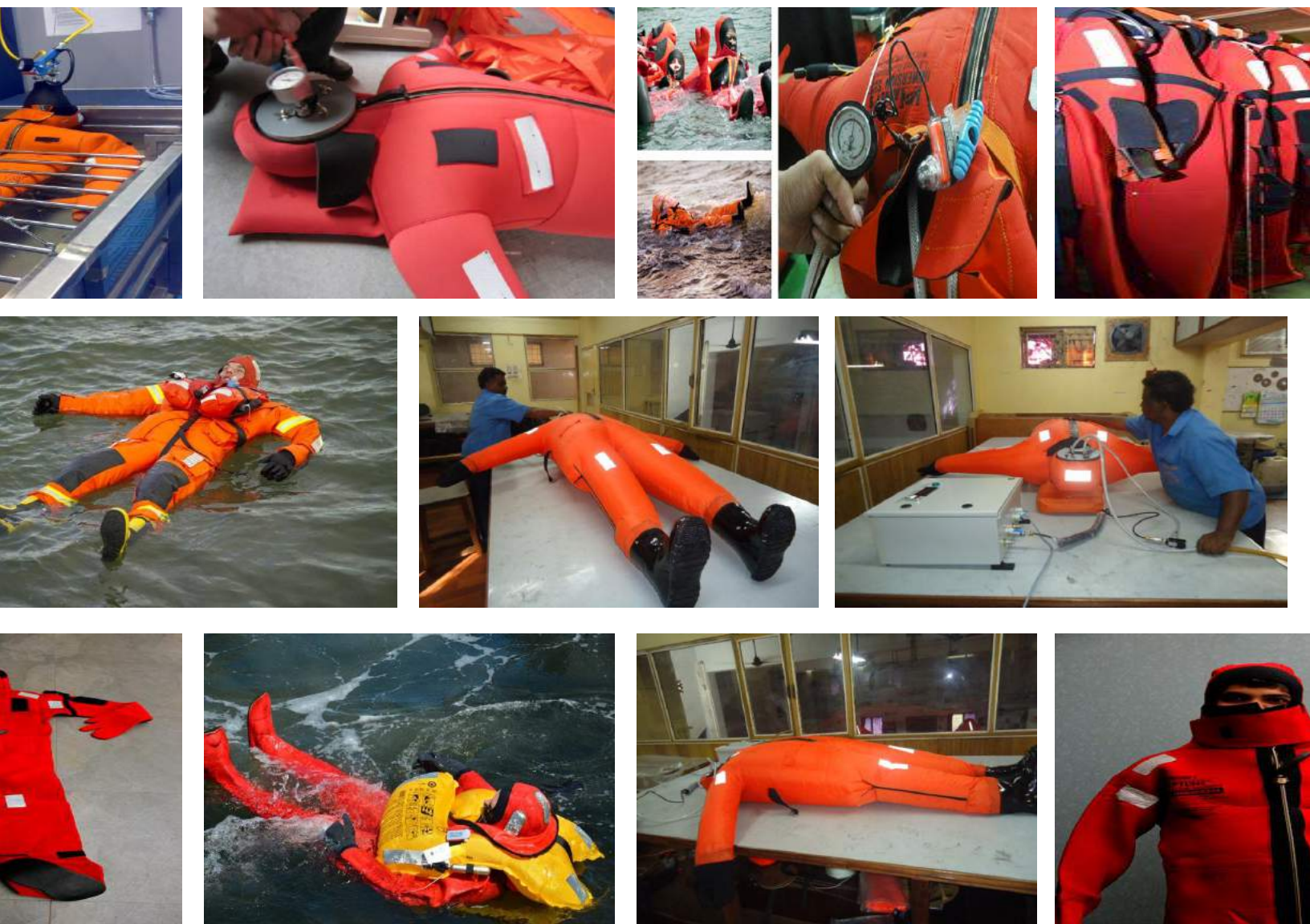


### 3. IMMERSION SUITE SERVICING

As per IMO Guidelines (MSC/Circ. 1114), monthly shipboard inspections of immersion suits are not adequate enough to identify deterioration of seams and closure of these suits. Hence, in order to ensure the maintenance of adequate strength and water tightness of seams and closures of immersion suits with age, it is recommended to subject the immersion suits to an annual air pressure test.

**Why choose “SHM SHIPCARE” for the Immersion Suite Servicing.**

We are certified by Classification Societies/OEMs to undertake servicing of Immersion Suits, Thermal Protective Aids, and Chemical Protective Suits. We are well-equipped with the infrastructure and technical expertise to cater to your Immersion and Chemical Suit servicing needs.





## 4. INFLATABLE LIFEJACKET SERVICING

All Inflatable SOLAS Life Jackets have to be serviced annually. Unless, they are being used on a more frequent basis and are being subject to adverse conditions, then it is recommended that they are serviced more frequently. Constant checks on the workable condition of the Inflatable Life Jackets are critical. Regular inspections of webbing and cover material for damages, buckle inspections, firing mechanism and cylinder tightness checks are very important before the Life Jackets are worn.

**Why choose "SHM SHIPCARE" for the Inflatable Lifejacket Servicing.**

We are certified by Classification Societies/OEMs to undertake servicing of Inflatable Life Jackets. We are well-equipped with the infrastructure and technical expertise to cater to your Life Jacket servicing needs.



## **FIRE FIGHTING APPLIANCES**

### **5. PORTABLE FIRE EXTINGUISHER SERVICING**

#### **Service Requirements for Portable Fire Extinguishers:**

Periodic maintenance, inspection, testing, and repair of fire protection systems and appliances are very important so as to ensure that they are available for immediate use while the ship or offshore installation is in service. As per guidelines provided by the IMO and Directorate General of Shipping India, Fire Extinguishers should be serviced, examined, and tested periodically by an authorized service facility acceptable to ship's Classification Society.

All types of Portable Fire Extinguishers placed on board need to be hydraulically pressure tested, refilled/recharged, and operationally tested on a yearly and three-yearly basis.

### **6. FIXED FIRE EXTINGUISHER SERVICING**

#### **Service Requirements for CO<sub>2</sub> Systems:**

Periodic maintenance, inspection, testing, and repair of fire protection systems and appliances are very important so as to ensure that they are available for immediate use while the ship or offshore installation is in service.

Apart from the monthly and annual visual inspections to check for damage, corrosion, leaks etc.,

#### **Two Yearly Inspections:**

At the intervals of at least 2 years, all high pressure cylinders and pilot cylinders of CO<sub>2</sub> Systems need to be weighed and their contents have to be verified. The cylinders containing less than 90% of the nominal charge should be refilled. Also, it is imperative to check the liquid level of the low pressure storage tanks.

#### **Ten Yearly Testing:**

All the high pressure cylinders on board should be subjected to a hydrostatic pressure at intervals not exceeding 10 years. At the 10 yearly inspections at 10% of the total number of CO<sub>2</sub> Fire Extinguishing Systems should be subjected to an internal inspection and hydrostatic test.



**15 yearly Testing:**

The high pressure, medium pressure, and low pressure sections of the CO2 Piping needs to be pressure tested using suitable liquids. The servo-cylinders, remote controlled stopcocks, alarm system, safety valves, and free flow of CO2 out of nozzles all need to be tested.

Apart from these tests, all the cable components, valves, pneumatic pressure release controls, switches should be periodically checked and tested for correct functioning.

**FOAM SYSTEM****Service Requirements for Foam Systems:**

Periodic maintenance, inspection, testing, and repair of fire protection systems and appliances are very important so as to ensure that they are available for immediate use while the ship or offshore installation is in service. All Foam Fire Extinguishing systems should be inspected and their controls verified on a monthly and quarterly basis.

Periodic testing of Foam concentrates is very important because sometimes due to high storage temperatures, contamination of the foam, or incomplete filling of the tank leads to abnormal ageing of the concentrates.

**Annual Inspections and Tests**

Apart from visual inspections of components, the following tests need to be conducted on a yearly basis:

- Flow testing of pumps for pressure and capacity
- All cross connections and relief/control valves need to be tested and properly set
- Blow tests to ensure the pipe work and nozzles are clear of obstructions
- Samples of Foam Concentrates need to be subjected to control tests.

As per IMO guidelines, it is imperative that these tests are performed via laboratories or authorized service suppliers deemed acceptable to Classification Societies. Please note that protein based alcohol resistant foam concentrates should be subjected to chemical stability tests prior to installation and annually thereafter.

**Five Yearly Testing and Certification**

After every five years, apart from the tests mentioned above, all the foam proportioners and mixing devices need to be tested to confirm that the mixing ratio tolerance is within +30 to -10% of the nominal mixing ratio defined by the system approval.

**DRY CHEMICAL POWDER [DCP] SYSTEM****Service Requirements for Dry Chemical Powder Systems:**

Periodic maintenance, inspection, testing, and repair of fire protection systems and appliances are very important so as to ensure that they are available for immediate use while the ship or offshore installation is in service.

As per guidelines provided by the IMO, all DCP Systems on board are subject to following periodic inspections and tests:

**Annual Inspection**

All accessible components of the DCP systems have to be visually inspected and all the pressure regulators have to be verified. The powder also needs to be agitated with nitrogen in accordance with manufacturer's instructions.

## Two yearly Inspection and Testing

In addition to shipboard inspections, once every two years the DCP system has to be inspected and tested by an accredited service company. This includes

- Blow tests to ensure the pipe work and nozzles are clear of obstructions
- Operationally testing controls and section valves
- Verifying content of Gas Cylinders
- Testing samples of DCP powder for moisture content
- Full working pressure tests for safety valves and discharge hoses

## Ten Yearly Servicing and Certification

At an interval of no more than ten years, all the powder containment vessels should be subjected to hydrostatic testing which should be carried out by an accredited service agent.

## 7. SCBA / EEBD SERVICING

As per guidelines provided by the IMO, all SCBA's and EEBD's are subject to inspections and tests on a yearly and 5-yearly basis, or as recommended by the manufacturer.

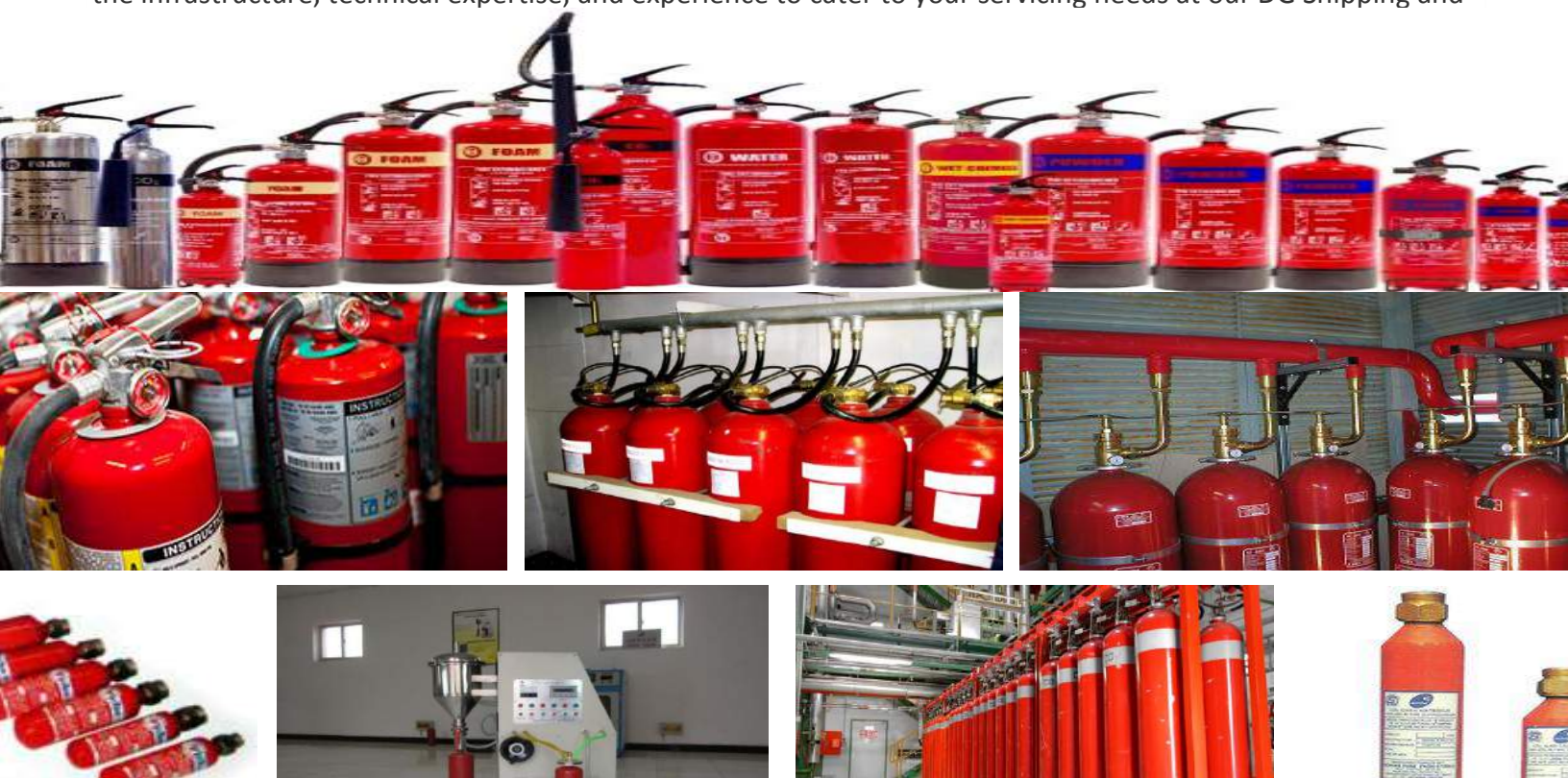
### Annual Inspections:

SCBA's and EEBD's on board vessels and offshore installations should be inspected and functionally tested every year by a Govt. Approved company on shore. All SCBA's need to be accompanied by two spare charges suitable for use with the breathing apparatus. These inspections are usually carried out on board.

### 5-yearly Testing and Certification:

In addition to the annual inspections, all SCBA's and EEBD's are subject to a hydrostatic test or a flow test once every five years or when recommended by the manufacturer. Hydrostatic testing requires specialized equipment and should be conducted only by Govt. Approved companies. Hydrostatic test date must be permanently marked on the SCBA and EEBD bottles.

**Why choose “SHM SHIPCARE” for the portable/Fixed/Foam/DCP/ SCBA & EEBD Servicing.** We are certified by Classification Societies/OEMs to undertake servicing of FFA’s. We are well-equipped with the infrastructure, technical expertise, and experience to cater to your servicing needs at our DG Shipping and





## MARINE - SUPPLIES



**Deck & Engine Stores**

SHM delivers all deck, engine, electrical stores, stationery, medical supplies or nautical equipment: Ropes / hawsers / marine paint / painting equipment, pneumatic / electrical tools, machinery equipment, screws / nuts, measuring tools and all kinds of nautical equipment.



**Provisions / Bonded Stores**

SHM supplies everything for your canteen or cafeteria. The product range covers all kinds of cigarettes, cigars or tobacco, alcoholic and non-alcoholic beverages up to the highest standards as well as duty-free chocolates, sweets or snacks, perfumes and cosmetics, clothing and travelling products, all kinds of electronics, watches and jewellery.



**Spare Parts**

SHM supply scope covers the smallest items such as a fuse, to the largest engine spare parts, such as the crankcase for a main engine and everything in between. A long-term and strong relationship with our supplier network guarantees efficiency and ensures delivery of genuine quality spares within shortest notice.



**Cabin Stores**

We offer all kinds of cleaning supplies from chemicals to vacuum cleaners, tableware or galley utensils from glasses to spoons, plates to saucepans, all kind of kitchen equipment or cloth and linen products.

