



SPARES AND SERVICES FOR HATCH COVERS AND RORO-EQUIPMENT

**30 YEARS OF
EXPERIENCE IN
CARGO ACCESS
EQUIPMENT**

WWW.CARGOCARESOLUTIONS.COM



FAST. RELIABLE. CARGO CARE SOLUTIONS

Cargo Care Solutions (CCS) is an innovative company on the field of cargo access equipment for sea-going vessels. Our worldwide established service network can provide good, reliable and timely after sales and service in order to meet the vessel's and customer's needs.

We have an extensive background on the field of cargo access equipment as we are created out of the former service networks of Macor Neptun and SEOHAE Marine System. During these periods we have built up 30 years of experience and are able to supply parts and services for many different brands including MACOR Marine Systems International, Macor Neptun and Transport Efficiency for which we own all original rights for drawings and information. Among others we service: MacGregor, TTS, Tsuji Heavy Industries, Kvaerner, Macgregor-Navire, Dodwell, Macgregor Far East, Nakata Mac, Kayaba and many others. Furthermore over time we acquired the original rights of Macor Neptun and Transport Efficiency.



WHO WE ARE

Cargo Care Solutions is a company with a long history on the field of cargo access equipment. As former after sales network of Macor Neptun and SEOHAE Marine System we have over 30 years of experience in our branch. Today we are an independent and all-round supplier and able to supply parts and services for all brands of maritime cargo access equipment.

After being part of the service network of Macor Neptun and SEOHAE Marine System, Cargo Care Solutions recognized the need in the market for an independent, global and all-round supplier of parts and services for the many brands of cargo access equipment among an owner/manager's fleet. Over time we acquired the original rights of Macor Neptun GmbH and Transport Efficiency B.V., but are able to supply parts and services for all brands of cargo access equipment. Macor Marine Systems International GmbH was formed in 1985 out of Deutsche MacGregor GmbH, member of the international MacGregor organization, by Dipl.-Ing. Peter Kloess son of Dipl.-Ing. H.K. Kloess founder of Deutsche MacGregor GmbH in 1951. When Macor terminated its activities in 2003 we acquired the original rights for about 3,500 vessels built by this organization.



THE HISTORY OF STEEL WEATHER TIGHT STEEL HATCH COVERS:

- 1936 The brothers Robert and Joseph MacGregor invented the first weather tight steel hatch cover with mechanical operating systems.
- 1949 Henri Kummerman recognized the big potential of the inventions of the MacGregor brothers and acquired the rights for worldwide commercial exploitation. MacGregor- Comarain was formed in France.
- 1951 Mister Kummerman came in contact with Dipl.-Ing. H.K. Kloess. Mister Kloess acquired the rights for commercial exploitation in the Federal Republic of Germany, the GDR and Austria. Deutsche MacGregor GmbH was formed.
- 1983 The international MacGregor organization was acquired by Navire OY from Finland.

OUR HISTORY:

- 1985 Deutsche MacGregor decided to continue independently from the international MacGregor organization and was renamed to Macor Marine Systems International GmbH.
- 1995 Macor Marine Systems International GmbH joined Neptun Industrie Rostock GmbH.
- 1997 Macor Marine Systems International GmbH was joined with its workshop Neptun Stahlobjektbau GmbH in a new company under the name MACOR Neptun GmbH.
- 2003 Macor Neptun GmbH terminated its activities.
- 2003 SEOHAE Marine Systems purchased the service stations in Rotterdam, Hamburg and Copenhagen from MACOR Neptun GmbH and renamed them SEOHAE Sales and Services.
- 2010 SEOHAE Sales & Services was acquired by Cargo Care Holding and renamed Cargo Care Solutions (CCS).
- 2010 Cargo Care Solutions is an independent company dedicated to be the first choice for service to maritime cargo access equipment.

WHAT WE DO

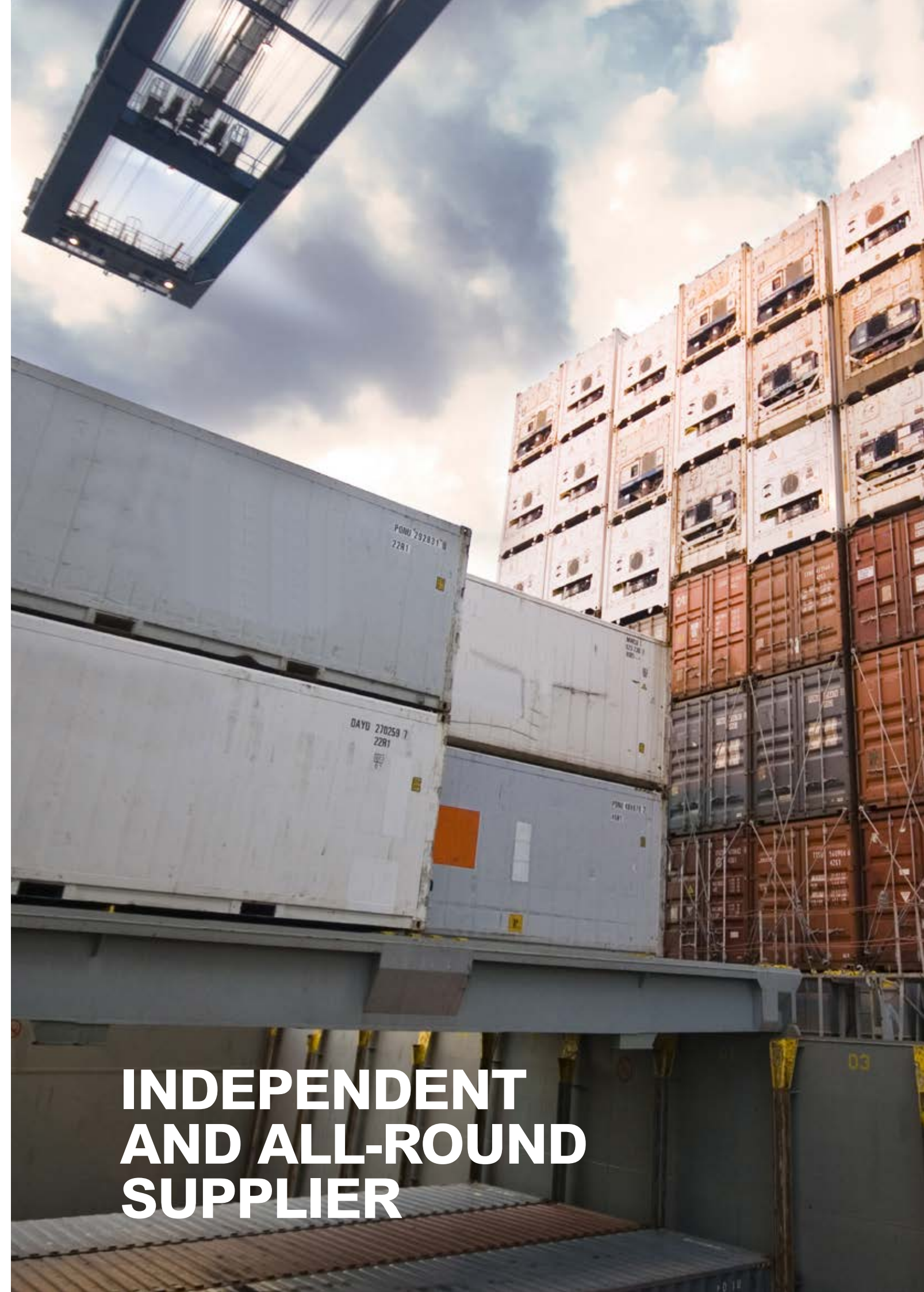


As an independent and all-round supplier we have fully equipped service stations for the maintenance of cargo access equipment built by many different makers. Our main categories of serviced equipment are: Folding Hatch Covers, Side-rolling Hatch Covers, Pontoon Hatch Covers, RoRo equipment and Hydraulic Doors..

We have many standard spare parts in stock or can deliver it through our extensive network with short lead times. As an all-round and experienced cargo access equipment service provider our experienced staff includes service engineers that can assist you with: pre-docking inspections, general inspections, (emergency) repairs and assistance and supervision during dry-docking. Due to our history Cargo Care Solutions is an all-round supplier for hatch cover spares and all other cargo access equipment. During the years we acquired all original rights for equipment built by MACOR Marine Systems International, Macor Neptun and Transport Efficiency. Furthermore our experienced team is specialized in many other types of cargo access equipment for many of the well-known names in the maritime industry including: MacGregor, TTS, Tsuji Heavy Industries, Kvaerner, Macgregor-Navire, Dodwell, Macgregor Far East, Nakata Mac and Kayaba. We can supply most types of standard fittings / spare parts including cleats, wedges, wheels, chain, rubber packing, etc directly from our stocks.

OUR WORLDWIDE ESTABLISHED SERVICE NETWORK IS ABLE TO PROVIDE YOU WITH:

- ▶ Good, reliable and timely after sales and service 24 hours a day
- ▶ Competitive priced spare parts
- ▶ A wide range of standard spare parts on stock in Rotterdam, Hamburg, Copenhagen, Singapore and Tampa
- ▶ Expertise on all kinds of cargo access equipment
- ▶ Experienced service engineers and consultants



INDEPENDENT AND ALL-ROUND SUPPLIER

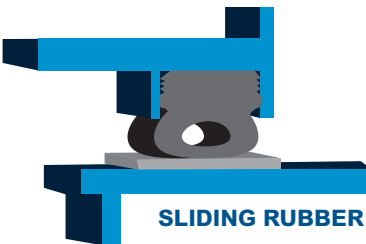
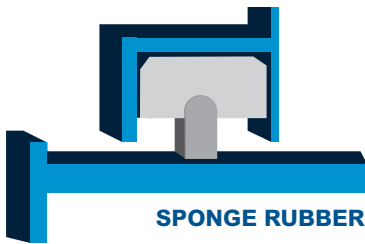


RUBBER SEALING

Sealing between hatch covers and coaming can be achieved by many different types of rubber packing. Traditionally the weather tightness of a hatch cover is achieved by a sponge rubber packing pressed against the edge of a compression bar. Over the years ships became much larger. Therefore the movement between hatch cover and coaming became much bigger. This problem was solved with sliding rubber packing. Sliding rubber packing is pressed against a flat surface in order to be more flexible to bigger hull deformations.

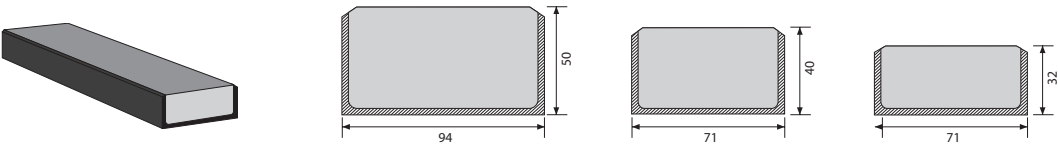
RUBBER SEALING

Rubber packing supplied by Cargo Care Solutions is made of high quality material to guarantee a long life time. Our sliding rubber offers low friction for better sliding together with a minimum wear. Furthermore it is UV radiation resistant and applicable in a big temperature range. Our sponge rubber has a strong solid skin to reduce damage on the packing. The sponge core is fabricated from a strong natural rubber offering the best compression and a minimum wear.



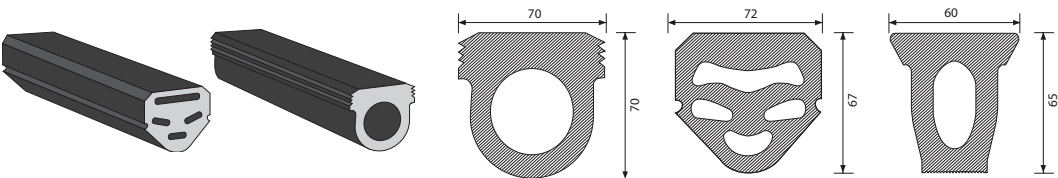
SPONGE RUBBER

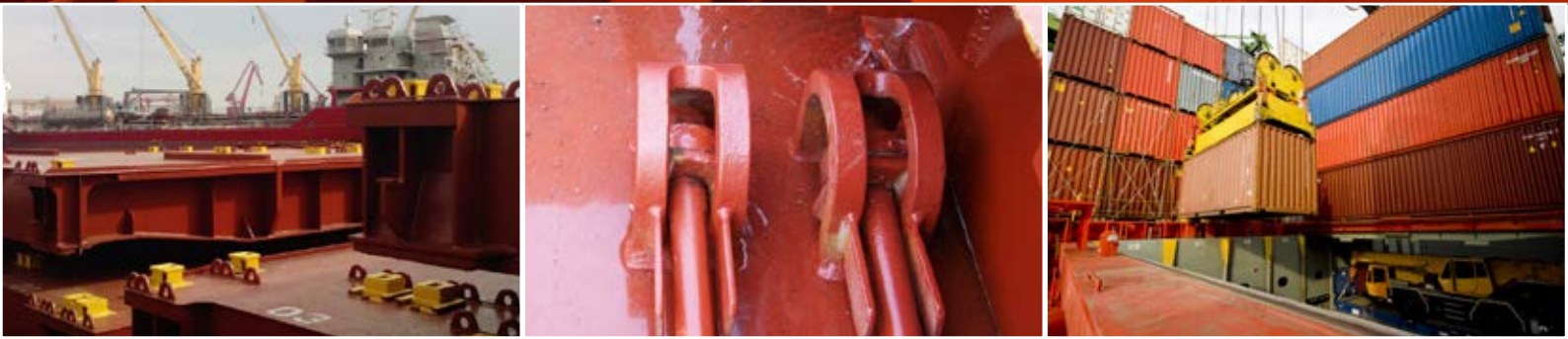
- ▶ Mostly used on side rolling and folding hatch covers
- ▶ Consists of a solid skin with a sponge rubber core
- ▶ Standard compression: 12mm
- ▶ Produced to guarantee long life time



SLIDING RUBBER

- ▶ Mostly used on pontoon hatch covers or large vessels with folding hatch covers
- ▶ Consists of EPMD material
- ▶ Standard compression: 12mm
- ▶ Produced to guarantee long life time



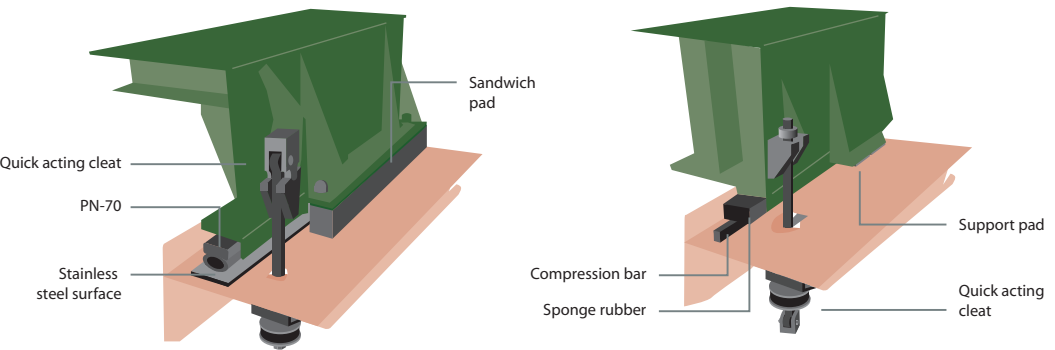


FITTINGS

There are many different types of fittings applied on many different types of cargo access equipment. As an all-round supplier Cargo Care Services is able to provide all the different types of fittings ranging from hydraulic cylinders to quick acting cleats. We keep many standard items in stock to ensure quick availability. Furthermore we are also able to supply nonstandard items with short delivery times due to our broad network of suppliers.

CLEATS AND WEDGES

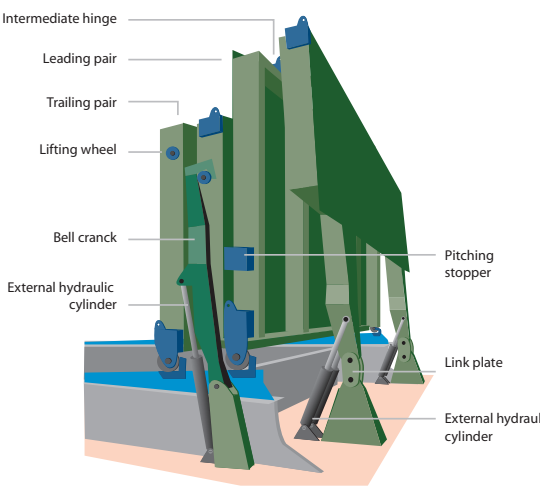
Essential for the weather tightness of the hatch covers is securing it with the correct type of cleats and wedges. Using the correct types, adjusted according the specifications, ensures long service life time of all parts fitted on both the hatch covers and the coaming. Cargo Care Solutions is able to supply many standard types of (quick acting) cleats and wedges directly from our stocks. Furthermore we are capable of delivering non-standard parts with short delivery times.



HYDRAULICS

Most types of hatch covers use hydraulics for opening and closing. Together with its large ship database and its broad history Cargo Care Solutions is able to deliver all hydraulic spare parts, with original specifications from the original supplier, of the following brands:

- ▶ MACOR Marine Systems International
- ▶ MACOR Neptun
- ▶ Transport Efficiency



CHAIN AND WHEELS

Rolling type hatch covers are driven either by chain or rack and pinion. Cargo Care Solutions has the standard types 11x43, 14x50 and 18x64 in stock. Furthermore it is able to supply wheels and all other parts with short delivery times.

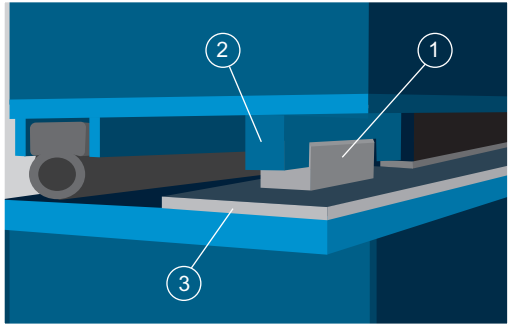




HATCH COVER SUPPORT PADS

Larger ships are naturally subjected to larger torsional deformation which in return causes horizontal friction between hatch covers and the coaming. Support pads are used to transfer these forces from the hatch cover to the coaming. The support pads are a critical area which can lead to high ship maintenance costs during service life. Our support pads are designed to have a minimal wear-down, lowering the ship's maintenance costs.

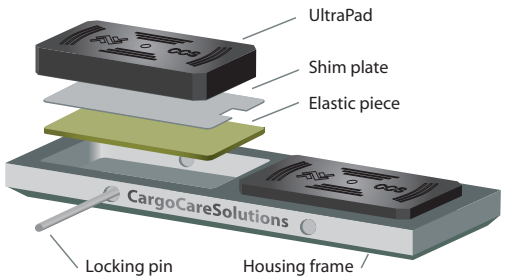
The lay-out of the different support pads consists of a bearing pad (1), a shim plate, an elastic piece, a housing frame (2), a locking pin and a mating plate (3). Cargo Care Solutions is able to provide the different parts in all sizes.



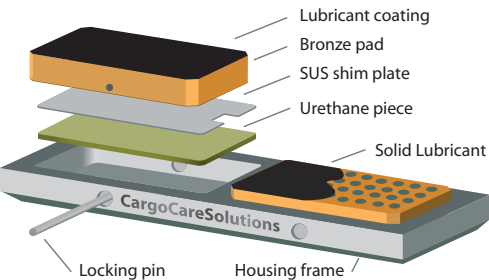
OUR SUPPORT PADS OFFER:

- ▶ Minimal wear-down
- ▶ Lower ship maintenance cost
- ▶ Low friction
- ▶ Higher stack loading

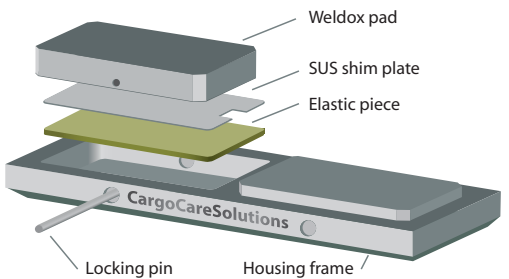
PLASTIC PAD



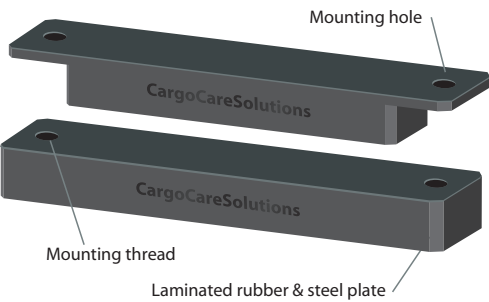
BRONZE / TEFLON (PTFE) PAD



HARDOX / WELDOX PAD

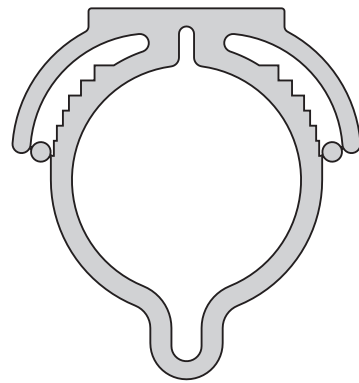


SANDWICH PAD



EMERGENCY SEAL

Sometimes a little bit of extra security can be needed to protect your cargo. Usually this will be achieved by different kinds of Hatch Cover Tape. While the effectiveness of these kinds of tapes is proven the main issues our customers are having with these products is that it takes a lot of time to clean the remaining of the tape and that you can only use it once. Cargo Care Solutions has developed an alternative to these types of tapes!



Cargo Care Solutions has developed a rubber sealing which can be pressed in the cross joint to give extra security for the weather tightness of your hatch covers. We provide 2 sizes, one size works between gaps of 20 – 50 mm and the second size works between gaps of 45 – 80mm. A complete set for 1 cross joint consists of 1 straight length of packing (cut-to-size) and 2 pieces 90° corners.

CROSS JOINT SEAL

The weathertight sealing of the cross-joints between pontoon hatch covers that are operated non-sequential or partially have traditionally been achieved by different air inflated sealing systems. These sealing systems have proven to be very easily damaged causing weathertightness problems throughout your hatch cover system. Today Cargo Care Solutions comes with an innovative solution that can replace those vulnerable seals and take away your worries about your precious cargo. Without using air inflation the Cargo Care Solutions Cross Joint sealing system offers the same flexibility in hatch cover operation, but is much more damage resistant.

Cargo Care Solutions has done for many different projects for many different ship owners/managers around the world in changing the originally fitted air-inflated rubber sealing to our Cross Joint Seal. Our engineers will assist you with an inspection of the current situation onboard. After that we will make a detailed proposal for the necessary repairs. Finally our engineers will supervise the repairs on the yard.





INSPECTION

Our worldwide service network with experienced service engineers can assist you 24 hours a day with service for your cargo equipment. Inspections are very important as a preventive action to avoid failure during cargo operations or as preparation for repairs. That's why Cargo Care Solutions has build up an extensive program of inspections to support our customer in ensuring their cargo operations.

GENERAL INSPECTION

A general inspection can be done at any occasion with any purpose. Do you need a planned inspection to have an overview on the state of your equipment? Or do you have a problem with your cargo equipment and need a specialist's view? Our engineers will go onboard to check your equipment, make a full detailed report and will come up with proposals to keep your equipment in top shape!

PRE-DOCKING INSPECTION

Planning for repairs of your equipment? Let us know so we can make a pre-docking inspection of your equipment. Our engineer will make a detailed report with a proposal for the repairs and a list of the spares needed. Just let us know well in advance and we will make a most competitive offer!

ULTRA-SONIC WEATHER TIGHTNESS TESTING

Our engineers are trained and certified to test the weather tightness of your hatch covers with the class approved ultrasonic equipment made by SDT.





REPAIRS

Our worldwide service network with experienced service engineers can assist you 24 hours a day with service for your cargo equipment. Regularly repairs are necessary to keep your vessel in top shape. Our engineers have dealt with a wide range of different repairs. If it is an emergency repair or a planned repair: we are at your service 24 hours a day!

HATCH COVERS

With many types of hatch covers there is a wide range of different kinds of repairs that can be needed to keep your cargo equipment in an optimal condition. Cargo Care Solutions' service engineers have experienced a wide range of repair work. Problems with your hydraulic system, leakage on the cross joints, steel repairs, please let us know and we are ready to assist you.

RORO EQUIPMENT

Our engineers have years of experience in maintaining RoRo equipment ranging from watertight doors to big stern ramps. To ensure cargo operation you can rely on us to keep your RoRo equipment in top shape!

PLANNED MAINTENANCE

Planning a dry docking? Talk to Cargo Care Solutions well in advance to see how we can assist you in making sure the repairs on your cargo access equipment are done as smooth and cost-effective as possible.

A well prepared drydocking can save both time and money. Cargo Care Solutions will assist you in setting up a plan for the repairs of your cargo access equipment. We will do a pre-docking inspection to get an updated view on the state of the equipment. We will report on our findings and will setup a proposal for materials, time and manpower needed. During the drydocking we can assist you with our professional services ranging from supervision to complete project management. Furthermore regular inspections can keep your cargo access equipment in top shape and can reduce the overall maintenance cost of your equipment during vessel lifetime.

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Germanischer Lloyd Certification GmbH has audited and approved Cargo Care Solutions for the requirements of the following standard: DIN EN ISO 9001:2008.