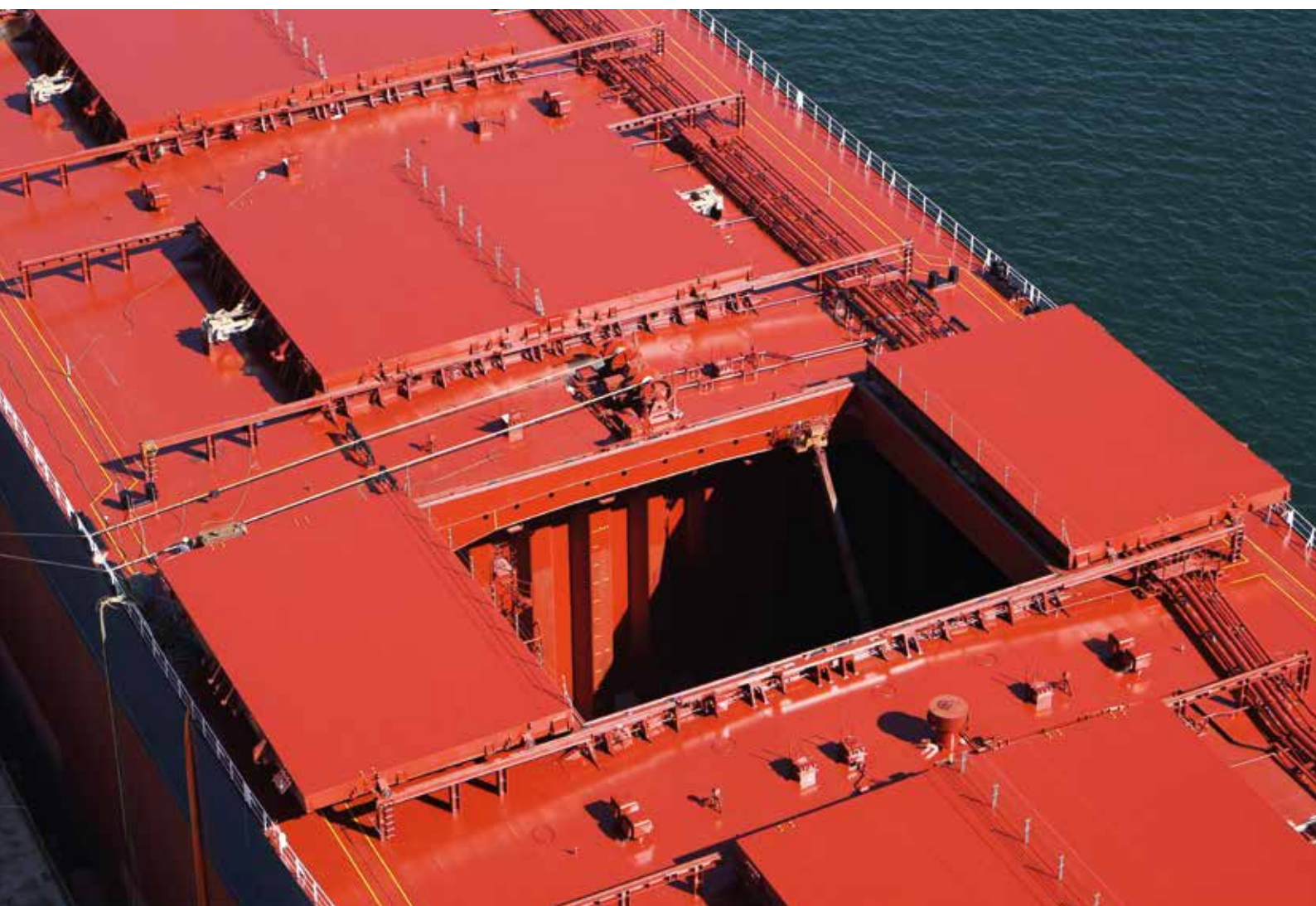


MacGregor hatch cover bearing pad upgrades

For all makes and models of hatch covers



At your service



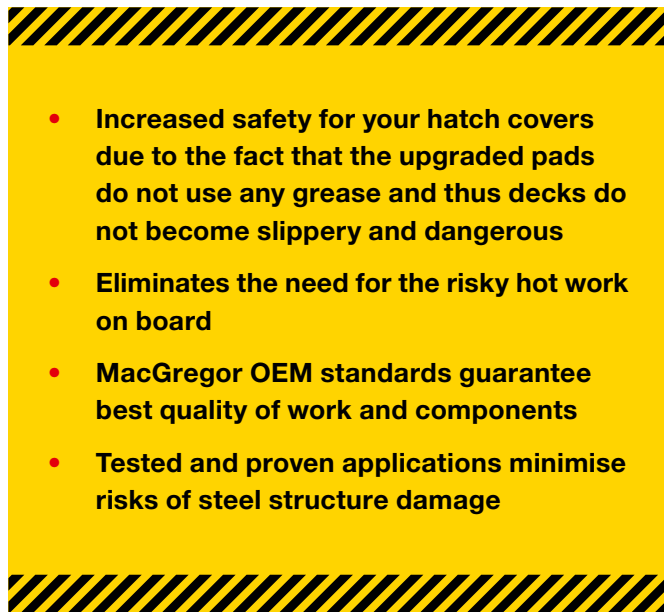
MACGREGOR

Designed to perform with the sea

Bearing pads are relatively small components, but play a critical role in structural performance. They transfer the weight of the cover and any cargo it may be carrying, to the ship's hull, while still allowing it to flex in a seaway. Therefore, their replacement must be carefully considered. MacGregor provides bearing pad upgrades for all major makes and models of hatch covers.

When more than a like-for-like exchange is needed, hatch covers themselves can be upgraded from having old steel-to-steel 'pad' fittings to our replaceable bearing pad systems. This can prove to be a very cost-effective option, eliminating continuous repairs and repeated component changes.

Our bearing pad upgrades deliver a long service life. We have solutions suit container vessels, bulk carriers and general cargo ships.



- **Increased safety for your hatch covers due to the fact that the upgraded pads do not use any grease and thus decks do not become slippery and dangerous**
- **Eliminates the need for the risky hot work on board**
- **MacGregor OEM standards guarantee best quality of work and components**
- **Tested and proven applications minimise risks of steel structure damage**

Advantages of bearing pad upgrades

- Prolonged sealing lifetime
- Enhanced weathertightness
- Increased safety for your hatch cover equipment
- Eliminates the need for hot work
- Reduced onboard noise (no-steel-on-steel scratching)
- Less environmental impact
- Reduced need for time-consuming and costly maintenance and repairs
- Easy replacement of bolt-on components whenever needed
- Minimise risk of steel structure damage

MacGregor bearing pad upgrades include

- Pre-project inspection (assessment)
- Engineering and procurement
- Class-approval documentation
- Installation drawings and instructions
- Bearing pads, seals and consumable spare parts
- Installation, supervision and commissioning

Unique benefits of MacGregor modernisations

- All work and components comply with the highest MacGregor original equipment manufacturer standards
- Delivered with a MacGregor guarantee
- Tested and proven applications
- 24/7 support from MacGregor's service network

Other hatch cover modernisations offered by MacGregor

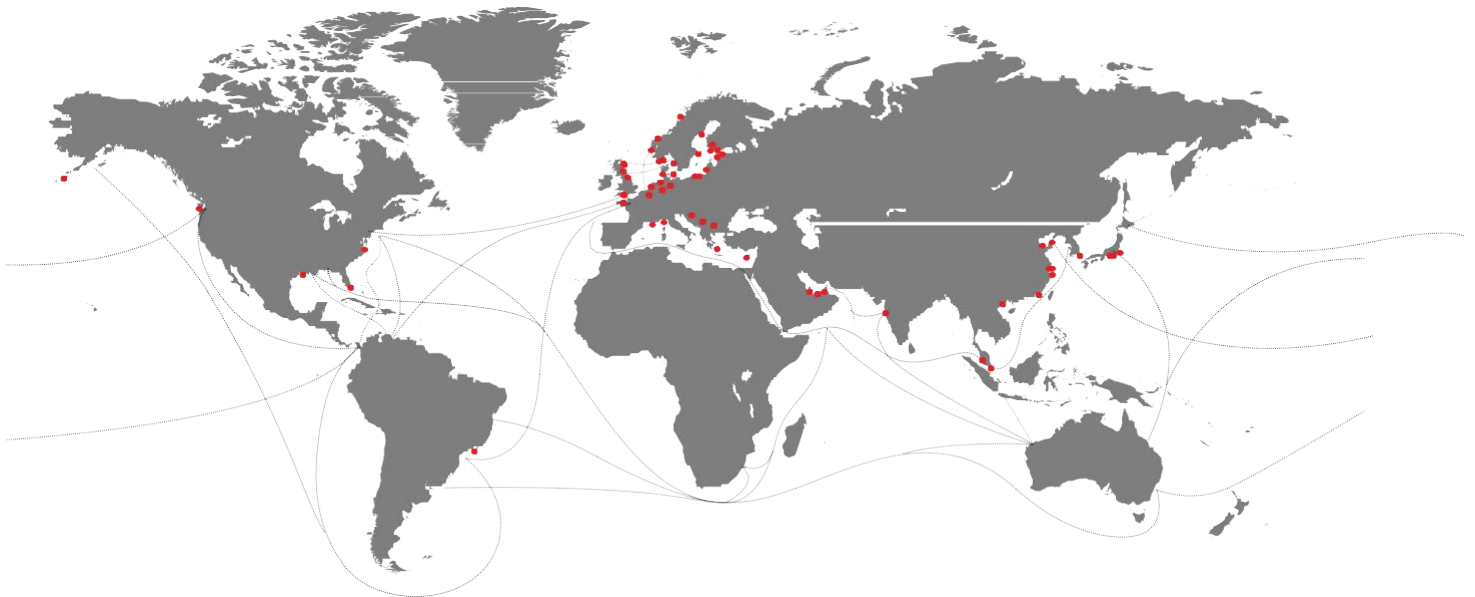
- Payload calculations for bulk carriers
- Cement/grain hatches for existing covers
- Ventilators for existing hatch covers
- Control stand modernisations, including remote control
- Customer-defined projects
- Retrofits, conversions, overhauls and maintenance

Bearing pad modernisations are available globally and carried out by MacGregor hatch cover specialists.

For further information, please contact your MacGregor account manager.

Wherever needed, you can rely on our support.
 We serve our customers globally:

- Ankerløkken Marine
- Allset
- ASCA
- Becker
- BMH
- Conver-OSR
- Grampian Hydraulics
- Flintstone
- Greer Marine
- Hamworthy
- Hatlapa
- Hydramarine
- Hägglunds
- Interschalt
- KGW
- KYB - ASCA
- KYB - Kayaba Industries / Navire Cargo Gear
- Luezhoe
- MacGregor
- MacGregor-Conver
- MacGregor-Hägglunds
- MacGregor-Kayaba
- MacGregor-Navire
- Navire Cargo Gear
- NMF
- Nordströms
- Ozean Service & Reparatur
- Platform Crane Services (PCS)
- Plimsoll
- Pusnes
- Porsgrunn
- Rapp
- Triplex
- TTS
- Vestnorsk Hydraulikkservice (VNH)



MacGregor is a leader in sustainable maritime cargo and load handling with a strong portfolio of products, services and solutions, all designed to perform with the sea.

Shipbuilders, shipowners and operators are able to optimise the lifetime profitability, safety, reliability and environmental sustainability of their operations by working in close cooperation with MacGregor.

MacGregor is part of Cargotec (Nasdaq Helsinki: CGCBV).

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