

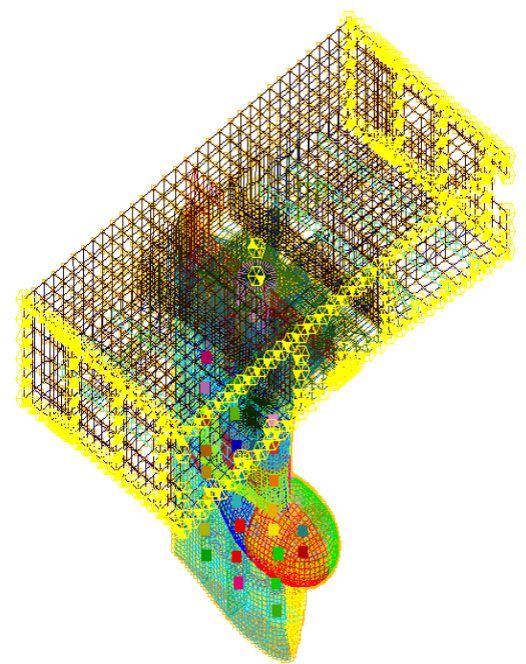
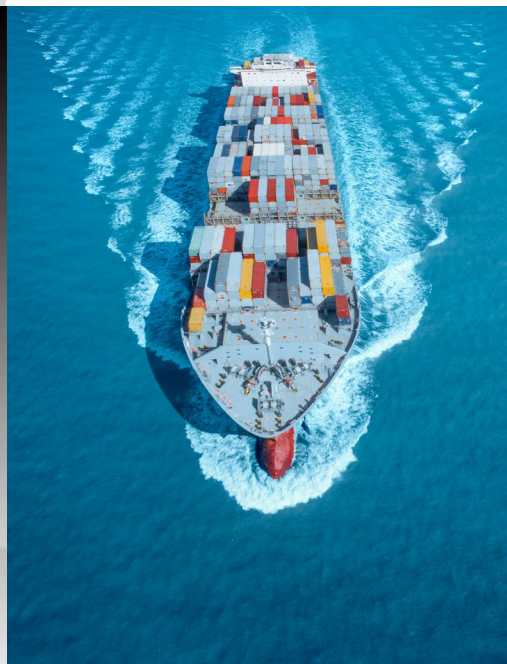
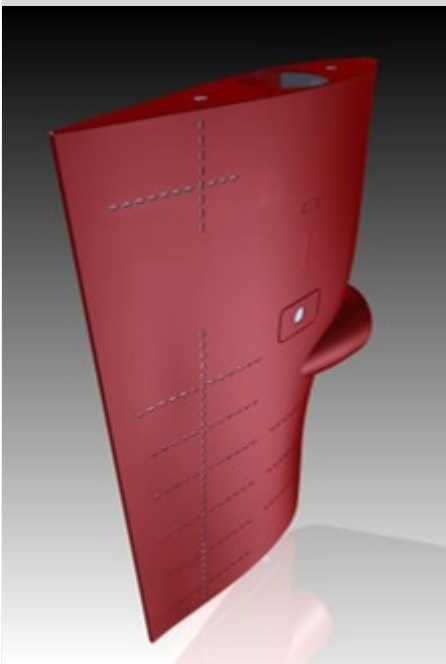


Greenland Marine Equipment

GME

GREEN-LAND-MARINE-EQUIPMENT

**RUDDER SYSTEMS
AND
SHIP'S EQUIPMENT**





关于我们

江苏个德海洋工程设备有限公司（GME）是国际造船市场上主要的船舶设备生产供应商之一，产品技术拥有半个多世纪的经验。

整个设计范畴基于江苏个德海洋工程设备有限公司创始人兼总裁杨哈曼先生（Dipl.-Ing. Jan Hamann）数十年的德国工程专业经验。

中德双方联合管理，我们拥有经验丰富的工程师和技术团队，高质量的团队合作，为国内外市场竞争保驾护航。

大量的证书和业绩以及加工领域的技术专利证实了这一技术。

产品可以根据客户需求进行量身定制，如舵产品，需要和船型相匹配，此种方式能给客户带来很多优势。最后我们的产品范畴已逐渐标准化，如：舱口盖、舷门和相关液压设备，方便船厂操作和安装。

船舶交船投入运营期间，无论客户何时需要我们，我们的服务团队会随时为您提供最优质的服务！欢迎随时联系我们。

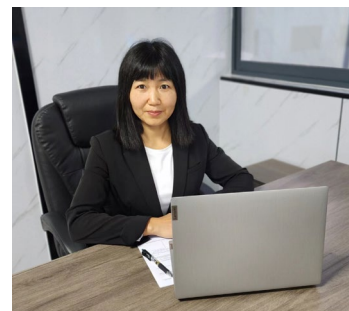
江苏个德海洋工程设备有限公司



**General Manager
Operational
运营总经理
Mr. Frank Finger**



**President
董事长
Mr. Jan Hamann**



**General Manager
Commercial
商务总经理
Ms. Xu Xiaoping**

Our Company

The company Greenland Marine Equipment (GME) is one of the major producing ship's equipment supplier in the international shipbuilding market with experience of more than half a century.

The entire design range is based on decades of experience from German engineering expertise by the founder and president of GME - Dipl.-Ing. Jan Hamann.

The German/Chinese management with its experienced engineering and technology team can thus guarantee a co-operative and best interaction of qualitative cooperation in the international as well as in the Chinese market.

Extensive certificates and references as well as technology patents in the field of processing confirm this know-how.

Tailor made products as rudders which always need to be fitted to the type of vessel, bring all the advantage to the customer. Finally our product range is setting standards with our hatch covers, shell doors and hydraulic equipment and makes it interesting for shipyards to use with easy handling and built-in.

When the vessel is in service after completion our service team will assist you as a ship owner whenever you need us. Feel free to contact us at any time.

Jiangsu Greenland Marine Equipment CO., Ltd



GME Quality Perfection

质量体系



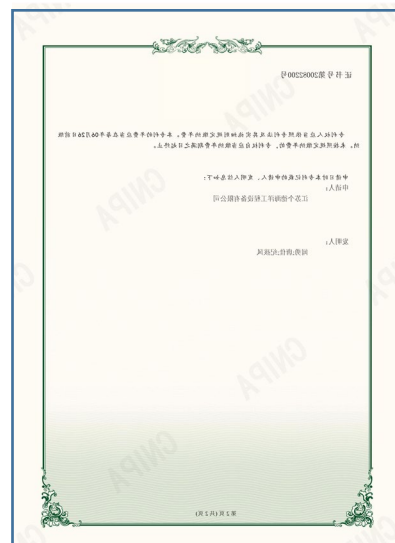
ISO 9001-Certificate
ISO 9001 质量证书



DNV Workshop and Welding-Certificate
DNV 生产车间和焊接认可证书



LR-Approval Certificate
LR 认可证书



Government Invention Certificate for Machining
政府颁发实用新型专利证书



„强有力“



„Powerful“

玉石舵

半悬挂舵

GME 的JADE半悬挂玉石舵可在世界各大洋上航行。它已经无数次证明了自己。凭借其高质量标准，GME 可根据自己的设计进行生产或与造船厂合作进行生产。所使用的材料完全基于客户的要求，性价比高，是所有船厂可靠的选择。

关键点

- 成熟的设计
- 适用于所有船型，尤其适用于总载重量 30k 以上的散货船和油轮
- 最佳性价比

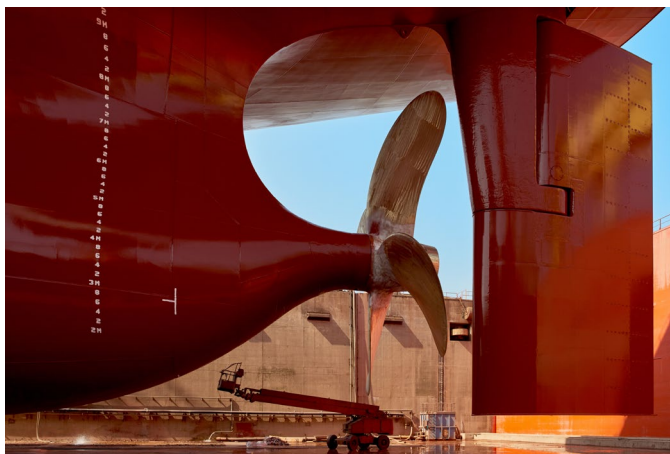
JADE Rudder

Semi Spade Rudder

The JADE Semi Spade Rudder from GME sails on all the world's oceans. It has proven itself a thousand times over. With its high quality standard, GME can manufacture this type of rudder to its own design or in co-operation with the shipyard. The materials used are based entirely on the customer's requirements and are therefore a reliable price option for all shipyards.

Key Facts:

- Proven design
- Usable for all ship types, especially for bulk carriers and tankers from 30k TDW
- Best price-performance ratio





„同类最佳“

„Best in Class“

绿宝石舵 全悬挂舵

GME 的 EMERALD 绿宝石舵是全悬挂舵，采用了一流技术。纤薄的舵叶和舵球的设计，可帮助船舶节省能源。舵叶锥形联轴器的平衡和适应性设计，使舵具有良好的转向性能和较高的性价比。

关键点：

- 适用于所有中高速现代船舶，如 PCTC、集装箱船、多功能船 和油轮
- 良好的操纵性

EMERALD Rudder

Full Spade Rudder

The EMERALD rudder from GME is a full spade rudder with best-in-class technology. Energy savings are possible thanks to its slim design and one bulb. The balancing and the adapted design of the cone coupling enable good steering behavior as well as a good price-performance ratio.

Key Facts:

- Suitable for all modern ship types with medium and high speeds such as PCTC, containers, MPVs and tankers
- Good maneuverability





„最珍贵的宝石“

„the most valuable gemstones“

蓝钻舵

DIAMOND-SAPPHIRE- Rudder

全悬挂扭曲前缘襟翼舵

Full Spade Rudder with twisted leading edge and flap

GME的DIAMOND-SAPPHIRE蓝钻舵是一款非凡的组合舵，它结合了DIAMOND钻石舵和SAPPHIRE蓝宝石舵，SAPPHIRE襟翼舵可以实现最佳的操纵性，DIAMOND扭曲舵可以最大限度地节约能源。

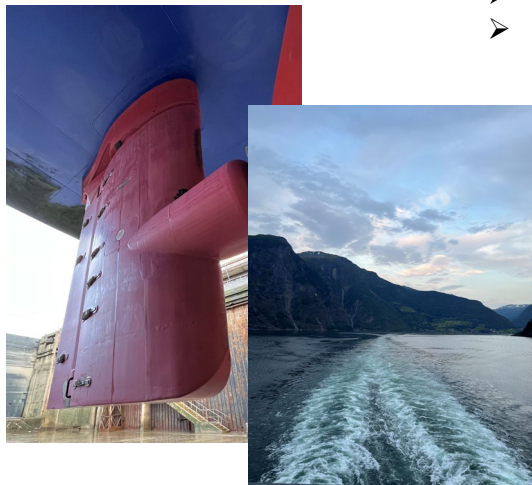
The combination of the GME rudder types DIAMOND and SAPPHIRE enables an extraordinary combination: with optimum maneuverability thanks to the SAPPHIRE flap rudder and the twisted leading edge of the DIAMOND rudder with maximum energy savings.

关键点

Key Facts:

- 适用于所有中高速现代船舶，如渡轮、滚装船、集装箱、多功能船、总载重量不超过 50k 的油轮
- 最佳操纵性
- 高节能

- Suitable for all modern ship types with medium and high speeds such as ferries, ROROs, containers, MPVs, tankers up to 50k TDW
- Best maneuverability
- High Energy savings





“卓越的性能”

蓝宝石舵

全悬挂襟翼舵

GME 的SAPPiRE蓝宝石舵是一种带襟翼的全悬挂舵。襟翼可以在河口交易、系泊和推离动作中实现最佳操纵。采用了高质量的合成材料技术和优化襟翼设计，舵的使用寿命长。

关键点

- 适用于所有现代船舶类型，如集装箱、MPV、总载重量不超过 50k 的油轮良好的机动性
- 优化设计带来的宽敞空间



“Excellent performance”

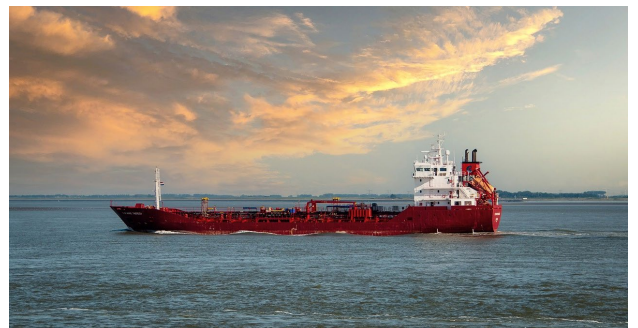
SAPPiRE Rudder

Full Spade Rudder with Flap

The SAPPiRE rudder of the GME is a full spade rudder with a flap. The flap enables optimum maneuvering in the estuary trading and during mooring and push off maneuvers. Thanks to the high-quality synthetic technology used and the optimized flap design, this rudder has a long service life.

Key Facts:

- Suitable for all modern ship types such as containers, MPVs, tankers up to 50k TDW. Good maneuverability
- Durability thanks to the optimized design





„明亮的光芒“

„Bright Shine“

钻石舵

DIAMOND Rudder

全悬挂扭曲前缘舵

Full Spade Rudder with twisted leading edge

GME 的 DIAMOND 钻石舵采用高端扭曲工程技术，是一种的全浮舵。通过偏置扭转和舵球的设计，可明显提高船舶效率，节能效率高达 6%，这一点已在多次模型试验中得到证实。与其他扭转系统相比，偏置扭转系统具有更高的性价比。

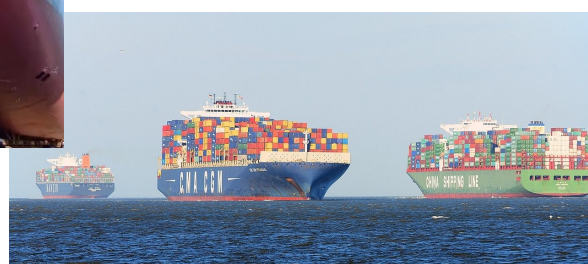
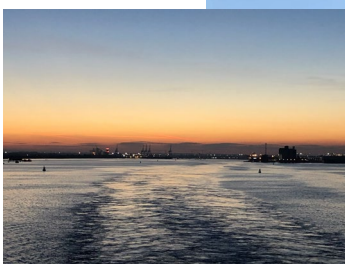
The DIAMOND rudder of the GME is a full spade rudder with high-end twist engineering technology. With an offset twist and mounted bulb, savings in the efficiency of the ship of up to 6% can be demonstrably achieved. This has been proven several times in model tests. With offset twisting, it has a better price-performance ratio than other twisting systems.

关键点

- 适用于集装箱、多功能船 和油轮等所有现代船舶类型，优化设计，经久耐用。
- 尤其是集装箱船和超大型油轮
- 高节能
- 良好的操纵性
- 无空泡现象
- 最佳性价比

Key Facts:

- Suitable for all modern ship types such as containers, MPVs and tankers. Durability thanks to the optimized design
- For container ships and ULCVs in particular
- High Energy Savings
- Good maneuverability
- No cavitation
- Best price-performance ratio

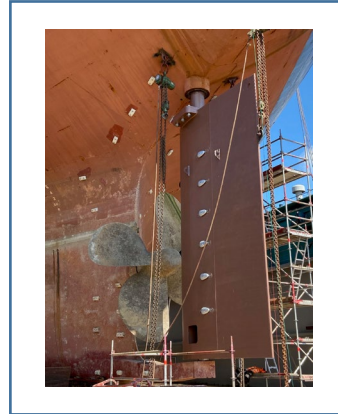


GME Rudder Solutions

GME 舵 解决方案

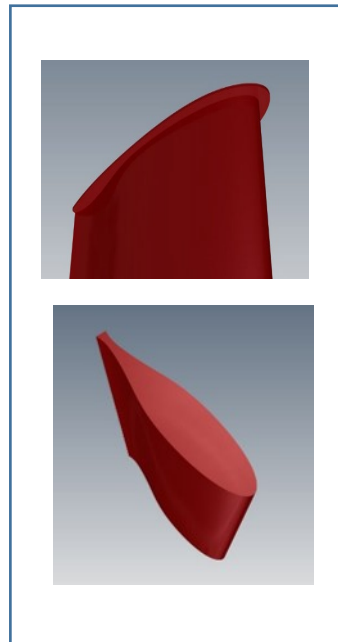


„主权型“**RUBY红宝石舵**,
带或不带舵踵支撑的法兰舵, 也可选择带襟翼。适用于渔船或航行于沿海港口间的轮船



“Sovereign Type” **RUBY Rudder**
Flange Rudder with or without heel support or optional with flap. Suitable for fishing vessels or coasters

„轻松前行“**CRYSTAL水晶舵**
带鱼尾设计的全悬挂舵, 在没有机械装置的情况下, 即可实现最佳操纵性能, 可带或不带舵球, 也可选择带后缘以节省能源。适用于航行于沿海港口间的轮船、散货船或油轮



“Easy Going” **CRYSTAL Rudder**
Full spade rudder with fishtail design for best maneuvering without mechanic, with or without bulb, optional with trailing edge for energy saving. suitable for coaster, bulk carrier or tanker

„初级“**OPAL欧泊舵**
带整体焊接轴的悬挂舵, 带或不带舵球, 适用于小型船只、工作船或高速船和游艇。



“Elementary” **OPAL Rudder**
Spade rudder with integrated weld in shaft, with or without bulb, suitable for smaller vessel, workboats or high speed boats and yachts

"High Quality Main Components"

"高质量的主要部件"

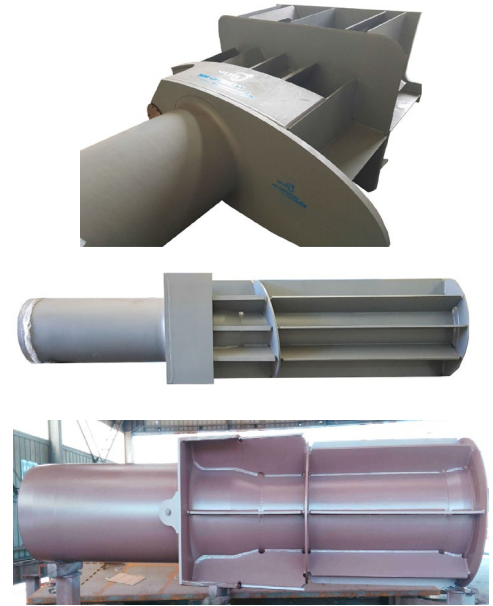
Rudder Blades 舵叶



Rudder Stocks 舵杆



Trunk Sections 舵套筒

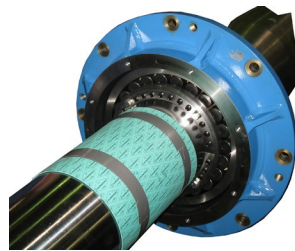


"High Quality Accessories"

"高品质配件"

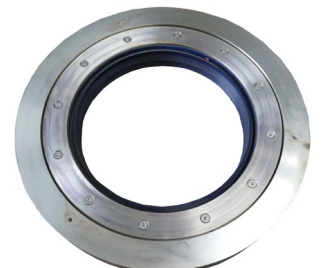


Carrier Bearing - Sliding Unit
承载轴承 - 滑动装置



Carrier Bearing - Spherical roller bearing fitted to housing and rudder stock

轴承座 - 球面滚子轴承, 安装在轴承座和舵柄上



Upper Stuffing Box- with synthetic rudder stock sealing
上填料函--带合成舵杆密封件



Carrier Bearing - Bearing Unit
轴承座 - 轴承单元



Lower Hydraulic Nut
下液压螺母



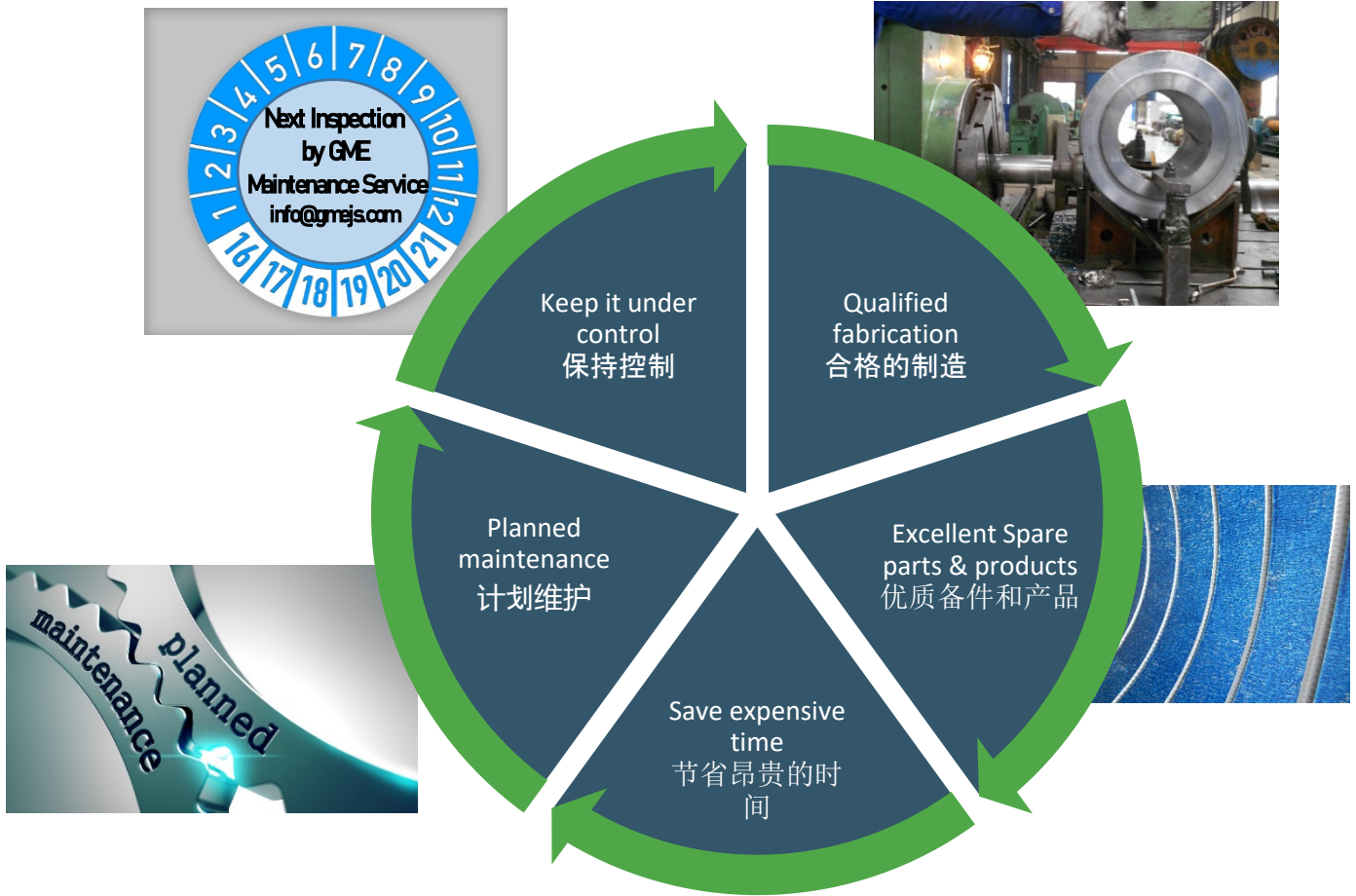
Synthetic Bearing Bushes
合成轴承衬套



Installation and measuring tools
测量工具

Service & Repair

服务与维修



GME assists you to keep the course:

Our service offers all facets of different solutions - from the fabrication of tailor-made spare parts up to the planned maintenance - which you need to ensure a smooth flow of your vessel in service.

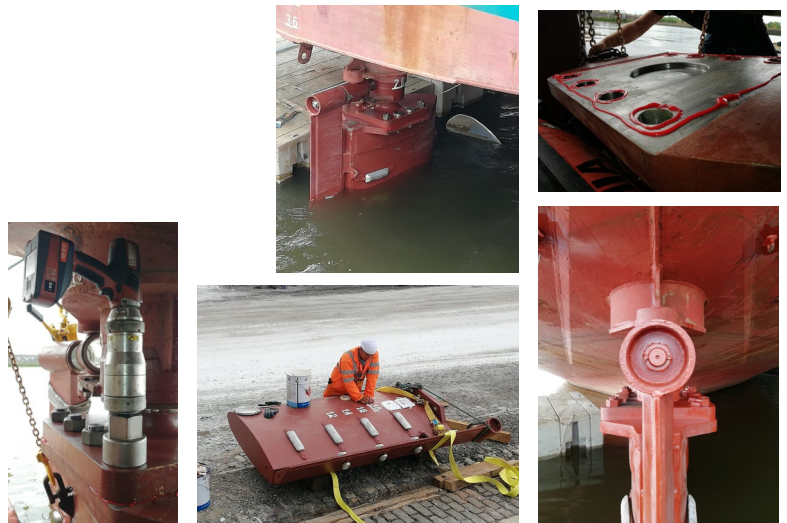
The GME network of experts will help you for the execution of maintenance inspections and provide you the spare parts -24/7.

GME 协助您保持航向：我们的服务提供全方位的解决方案--从量身定制的备件制造到有计划维护--这些都是您确保船舶顺利航行所需要的。

GME 的专家将帮助您进行维护检查，并全天候为您提供备件。

Installation of a replacement rudder blade and stock to a floating vessel without dry docking

在浮船上安装替换舵叶和舵托，无需干坞停靠



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