MARITIME SEALS

EPS YOU GOING

JR PEACE OF MIND



HOW LAGERSMIT **DELIVERS PEACE OF** MIND WITH THE BEST **SEALING SOLUTIONS** FOR SHIPS, PUMPS **AND TIDAL TURBINES**

COMPANY INTRODUCTION

LAGERSMIT HAS BEEN IN THE MARITIME INDUSTRY SINCE 1856. WITH THIS FACT IN COMBINATION WITH MORE THAN 40.000 SEALS DELIVERED. YOU CAN SAY WE HAVE GAINED THE RIGHT SEALING KNOWLEDGE. RESOURCES AND CAPACITY TO DEVELOP SEALS FOR YOU AND WILL CONTINUE TO DO SO IN THE FUTURE.

It is important that all sealing components are of the highest quality and are perfectly compatible with each other. In the production facility at our headquarters in the Netherlands we make sure Supreme[®] seals meet these high standards – adding quality and reliability to your propulsion system.

Fast delivery times are an absolute must. We have therefore adapted our processes accordingly, offer committed 24/7 support and can have an expert on site within 48 hours when you need us. In addition, our Supreme seals are suitable for both new-build and retrofit applications. In a nutshell, we deliver you Peace of Mind.

24/7

SERVICE &







FOUNDED IN 1856

BASED IN THE WORI DWIDE NETHERLANDS SPARE PARTS

DELIVERED OVER 40 000 SEALS

DEDICATED RESEARCH & DEVELOPMENT

ONE STEP AHEAD

LAGERSMIT CAN BUILD ON A RICH HISTORY OF DESIGNING, PRODUCING AND INSTALLING STERN TUBES. BEARINGS AND SEALS. OUR GOAL AS AN INDEPENDENT SEAL AND BEARING SUPPLIER IS TO WORK CLOSELY WITH OUR CUSTOMERS, PROVIDING THEM WITH A SOLUTION THAT EXCEEDS THEIR EXPECTATIONS.

Our Research and Development department is continuously working on product improvements, line extensions and new products for our customers to have sustainable, reliable, green and cost efficient sealing solutions. With our Supreme Ventus[®], we have managed to improve seal performance, extend docking intervals and fulfil the Vessel General Permit (VGP) requirements.

Our Custom Design Engineering department spends its time on seal retrofit applications and custom-designed sealing solutions for all sorts of applications relating to marine propulsion, dredging, (clean) power generation and offshore equipment. Even if it seems there is no solution at hand, our engineers often do find one.

Peace of Mind.

Towards the future, Lagersmit is focusing more and more on Condition Monitoring of the seal and further extending the seal's lifetime by enhancing the seal design and developing auxiliary systems. Always one step ahead, delivering customers

Your needs and questions inspire us. Contact us any time!

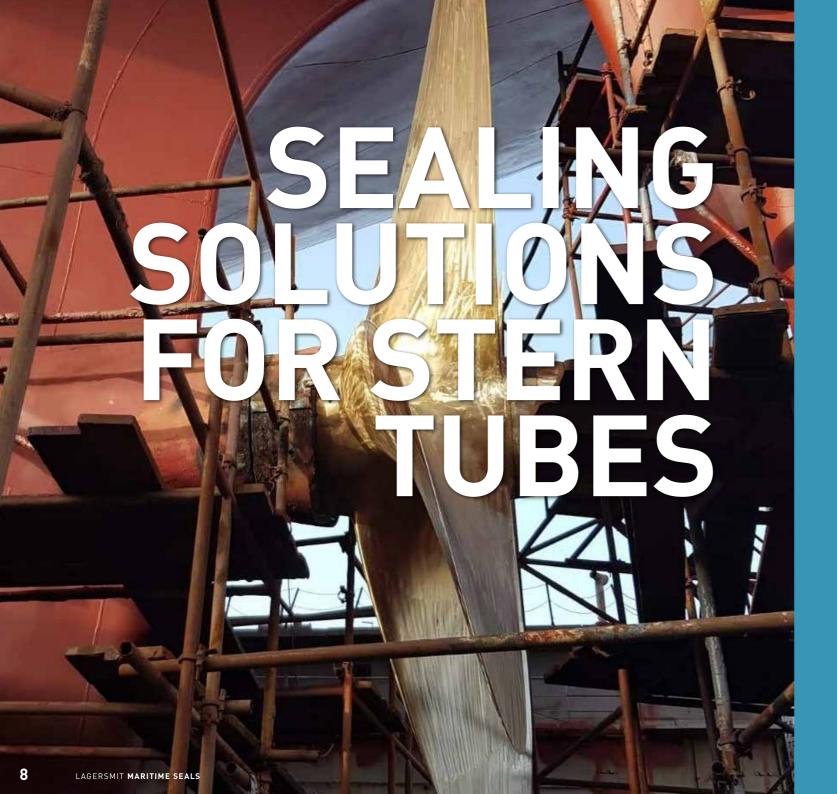
PEPIJN SWARTE Product Specialist info@lagersmit.com

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REAL STORY: RETROFIT

MINERVA MARINE INC.

Minerva Marine is one of the largest shipping companies in Greece. They used to apply conventional stern tube seals incorporating Environmentally Acceptable Lubricants (EALs) for meeting the VGP requirements, but they weren't satisfied with these sealing solutions any more due to the poor long-term performance and efficiency. Another motivation for a new sealing solution is that they needed to comply with the demands from harbours. Zero-emissions stern tube seals were not simply desired, but a requirement. Addressing the issues decisively from both engineering and financial perspectives Minerva Marine initiated a project for retrofitting conventional seals to the Supreme SeaGuard Ventus[®] air-type seal.

Minerva Marine started researching several air-type seals, including the Supreme Ventus[®]. The organisation compared the advantages of this sealing solution with features of other air-type seals. After extensive research, Minerva Marine made the decision to retrofit their current seals to the Supreme Ventus, starting with the Medium Range 2-size tanker MT Minerva Mediterranea. The company is known for its thorough examinations before they implement something new within the company and its attitude towards the Supreme Ventus is very positive.

BASED ON A THOROUGH ASSESSMENT THE SUPREME (SEAGUARD) VENTUS OUTPERFORMS OTHER **AIR-TYPE SEAL SOLUTIONS DUE TO ITS UNIQUE DESIGN** CHARACTERISTICS, I.E. SIMPLICITY, RELIABILITY AND COST EFFECTIVENESS.

ANDREAS G. ASIMAKOPOULOS Head of Technical Asset Integrity – Minerva Marine Inc.

Given the limited time between order confirmation and retrofit commissioning - roughly a month - we managed to excel and deliver a factory tested and class approved system on time.

Together with the technical engineer of our agent UMAR-WSR we managed to respond strongly, collaborated smoothly and ensured a successful commissioning of the system. Minerva Marine deeply appreciates the commitment, team spirit and eagerness to resolve issues in a thorough and timely manner during the installation.

> IAN WILLEM BONGE Account Manager

SUPREME® SEALS

We believe a seal should deliver top performance, keep you going and offer you Peace of Mind. This idea led to the development of the Supreme seal. Introduced in the 1980s and further developed ever since, Supreme seals offer 'plus' to many propulsion systems and vessels worldwide.

The Supreme stern tube seals and Supreme thruster seals are produced with high quality housing parts, lip seals and liners. Our Modular, Made-to-Measure philosophy enables us to deliver customer-specific designs combined with short quotation, lead and delivery times. In addition, the Supreme seals are suitable for both new-build and retrofit applications.

The list of advanced options like an HML coating for extra durable liners and environmentally acceptable lubricant (EAL) compatible lip seals allows you to enhance your seal design to your preferences.

APPLICATIONS

- STERN TUBES FPP, CPP
- THRUSTERS AZIMUTH, AZIPULL, TUNNEL, PODS

-

- BULKHEADS
- FIN STABILISERS
- RUDDER STOCK
- GEARBOX

VARIOUS SEAGOING VESSELS, NAVAL SHIPS, INLAND VESSELS, YACHTS, CRUISE SHIPS, FERRIES, DREDGE VESSELS

SUPREME® STANDARD (AFT + FWD)



BASIC, MODULAR MADE-TO-MEASURE



Looking for a reliable stern tube sealing solution? The Supreme Standard is the basic design of the Supreme range. Consisting of bronze housing parts (or cast iron to fit inland vessels), and also available in a split version, the aft seal prevents water ingress and oil leakage to the outside environment. The forward seal consists of cast iron housing parts and contains two oil-repellent lip seals preventing oil leakage to your engine room. Both seals are executed with a stainless steel liner.

Complemented with a broad range of options, the Supreme seal can be fully customised to your specific sealing need to guarantee your Peace of Mind.

BENEFITS

- Highly corrosion resistant
- Modular, Made-to-Measure
- Effective separation of water and lubricants
- Optimised Total Cost of Ownership
- Available with a broad range of options
- Suitable for both new-build and retrofit applications
- Bonding in situ possible

SUPREME SEAGUARD® (AFT)



EXTRA SAFETY



Do you prefer extra safety? The Supreme SeaGuard gives you extra security against oil leakage into the marine environment. How? – with an additional redundant lip seal.

The chamber between the two oil-repellent lip seals is pressurised by the stern tube header tank. This way the pressure on both sides of the fourth lip seal remains equal. By closing off the oil supply to this chamber, the fourth lip seal can be used as a new oil-repellent lip seal. In case of leakage, docking and maintenance can be postponed by putting this redundant (fourth) lip seal to work.

ADDITIONAL BENEFITS

The Supreme Standard advantages plus:

• Extra safety due to its redundant lip seal

SUPREME VENTUS® (AFT)



100% INTELLIGENT, ZERO EMISSIONS

VGP COMPLIANT CONDITION MONITORING

In search of a durable, self-regulating sealing solution that guarantees zero emissions of oil? The Supreme Ventus has an advanced self-regulating air control unit that enhances the seal's lifetime by minimising wear. Additionally, leakage is drained into a monitoring tank in order to prevent an oil-to-water interface and guaranteeing zero emissions of oil. The air control unit will monitor and display the condition of the aft seal. It will let you know when maintenance is due and warns you in case the aft seal shows intolerable leakage.

ADDITIONAL BENEFITS

The Supreme Standard advantages plus:

- 24/7 Condition Monitoring
- Five year warranty (ask for details)
- Applicable to all types of draughts
- Minimised wear on lip seals and liner
- Approved by DNV GL, in compliance with EPA's VGP requirements

OPTIONAL SUPREME SEAGUARD VENTUS[®] Combines the benefits of the Supreme Ventus and Suprem SeaGuard into one seal. The picture shows the typical set-up



INLAND VESSELS, YACHTS, CRUISE SHIPS, FERRIES

SUPREME ATHMOS® (AFT)



ZERO EMISSIONS AND CONDITION MONITORING FOR SHIPS WITH SHALLOW DRAUGHTS

VGP COMPLIANCE CONDITION MONITORING LIMITED DRAUGHT

A sealing solution that ensures zero emissions of oil for ships with a shallow draught. The Supreme Athmos features Condition Monitoring to deliver you optimal Peace of Mind.

The Supreme Athmos system drains any leakage from the aft seal into the vessel. Additionally, the Supreme Athmos system monitors the condition of the aft seal and displays all relevant data. It lets you know when maintenance is due.

ADDITIONAL BENEFITS

The Supreme Standard advantages plus:

- 24/7 Condition Monitoring
- Compact, self-regulatory system
- Approved by DNV GL, in compliance with EPA's VGP requirements

OPTIONAL SUPREME SEAGUARD ATHMOS[®] Combines the benefits of the Supreme Athmos and Supre

Combines the benefits of the Supreme Athmos and Supreme SeaGuard into one seal. The picture shows the typical set-up.



SUPREME[®] INLAND VESSEL (AFT + FWD)



SEAL FOR SMALL SHAFT DIAMETERS



Are you sailing with an inland vessel? Our Supreme seal specially designed for all types of Inland vessels has a clever and high quality design. With its cast iron housing parts, chrome steel liner, oil-repellent and water-repellent lip seals, it is optimised to ensure a long service life.

Complemented with a broad range of options, the Supreme seal can be customised to your specific sealing needs, creating Peace of Mind.

ADDITIONAL BENEFITS

The Supreme Standard advantages plus:

- Targeted design for inland vessels
- Available with a broad range of options

REAL STORY: SUPER YACHTS RUBBER DESIGN

KEY WORDS FOR SUPER YACHTS ARE HIGH QUALITY, EYE FOR DETAIL AND AN EXCELLENT SERVICE LEVEL. THE ENVIRONMENT THEY OPERATE IN ALSO DEMANDS FOR SUSTAINABILITY. THE SUPREME ATHMOS IS HIGHLY RELIABLE, PROTECTING OWNERS FROM UNEXPECTED MAINTENANCE AND ENSURES ZERO EMISSIONS. FOR DECADES NOW RUBBER DESIGN AND LAGERSMIT HAVE BEEN WORKING TOGETHER TO PROVIDE YACHT BUILDERS AND YACHT OWNERS WITH THE BEST SEALING SOLUTIONS AND SERVICE.

ROBERT DE GOEIJ Design Engineer – Rubber Design

SEALING OLUTIONS

Lagersmit delivers excellent solutions for new and existing thrusters. These may be simple and basic solutions, up to pressure-compensating, zero emissions and 100% condition-monitored solutions. Existing thrusters can be enhanced with a broad set of retrofit possibilities. In need for a new or retrofit thruster seal? Our experts are ready to find the best possible sealing solutions for you!

RIC DE PAAUW ccount Manager

SUPREME® STANDARD



MODULAR, MADE-TO-MEASURE



Looking for a basic, reliable tunnel thruster sealing solution? The Supreme Standard is the basic design of the Supreme range. Consisting of bronze housing parts, the aft seal prevents water leakage ingress and oil leakage to the outside environment.

Complemented with a broad range of options, the Supreme seal can be custom designed to your specific sealing needs to guarantee you Peace of Mind.

The Supreme Standard seal is applicable to a fully oil-filled lower gearbox.

ADDITIONAL BENEFITS

- Highly corrosion resistant
- Modular, Made-to-Measure
- Optimised Total Cost of Ownership
- Available with a broad range of options
- Suitable for both new-build and retrofit applications

SUPREME VENTUS®



100% INTELLIGENT, ZERO EMISSIONS



In search of a durable, self-regulating sealing solution that guarantees zero emissions of oil? The Supreme Ventus has an advanced self-regulating air control unit that enhances the seal's lifetime by minimising wear. Additionally, leakage is drained into a monitoring tank in order to prevent an oil-to-water interface and guaranteeing zero emissions of oil. The air control unit will monitor and display the condition of the seal. It will let you know when maintenance is due and warns you in case the aft seal shows intolerable leakage.

Suitable for pressurised oil-filled thrusters

ADDITIONAL BENEFITS

- 24/7 Condition Monitoring
- Five year warranty (ask for details)
- Applicable to all types of draughts
- Minimised wear on lip seals and liner
- Approved by DNV GL, in compliance with EPA's VGP requirements

SUPREME® TS3



CUSTOM-MADE DESIGN



Looking for an innovative sealing solution to protect your thrusters? The Supreme TS3 seal has a targeted design for thrusters with a small build-in length and is custom made for every application.

The Supreme TS3 seal may be applied to spray-lubricated and fully oil-filled lower gearboxes.

ADDITIONAL BENEFITS

- Condition Monitoring
- Targeted design for azimuth and azipull thrusters

SUPREME® TS4



EXTRA SAFETY PREVENTING WATER INGRESS



Want extra safety preventing water ingress? The Supreme TS4 seals the thruster's lower gear box for all common propeller shaft diameters. The chamber between the two oil-repellent lip seals is filled with oil and the resulting pressure effectively keeps water outside and oil inside the thruster gearbox. The Supreme TS4 is equipped with an additional water-repellent lip seal and is suitable for heavy duty operation.

The Supreme TS4 seal is applicable in a spray-lubricated and fully oil-filled lower gearbox.

ADDITIONAL BENEFITS

- Condition Monitoring
- Safety measure preventing water ingress

OPTIONAL SUPREME TS4 VENTUS®

Combines the benefits of the Supreme Ventus and and Supreme TS4 seal into one seal. The picture shows the typical set-up of this seal.



SEALING 50 LUTIONS

REAL STORY: GEARBOX SEALS

KELLER GMBH & CO KG

Keller GmbH & Co. KG (Keller) delivered gearboxes on Asia's largest and most advanced dredging vessel, the Tian Kun Hao. For the sealing system on these gearboxes Keller has closely cooperated with Lagersmit.

The delivery was made in October 2016 to be fitted on this extraordinary dredge vessel for Tianjin Dredging Corporation (TDC). Keller built the most essential part of the drive train: the cutterhead gearbox. In total the project involved gearing systems for two inboard pumps and an underwater pump, and a cutterhead gearbox with a nominal engine power of 5000 kW.

The self-propelled vessel, launched in November 2017 in Qidong, East China's Jiangsu Province, is a staggering 140 metres long, has a width of 27.8 metres and is able to operate in depths of between 6 and 35 metres. Just imagine the pressures and the rough and abrasive environment this cutter has to operate in.

THE TREND FOR LARGER AND LARGER **GEARBOXES FOLLOWS THE TREND FOR** LARGER AND MORE POWERFUL DREDGERS.

partner that

- supplies quality
- is flexible
- design stage
- of emergency.

We feel comfortable with the technical and quality package Lagersmit delivers."

'Larger cutters have longer ladders and thus are able to cut deeper than smaller ones', said Marcel Wiegman, Managing Director at Keller. He continues: 'There are not too many classified sealing manufacturers worldwide. In Lagersmit, Keller finds a

• knows the operational conditions

• provides the necessary support during

• provides the necessary support in case

DUSTIN VAN HORIK **Commercial Director**

SUPREME® BULKHEAD SEAL



EAGOING VESSELS. INLAND VESSELS

lubricant used.

ADDITIONAL BENEFITS

SUPREME® RUDDER STOCK SEAL

PREVENTS WATER INGRESS INTO THE RUDDER STOCK BEARINGS

Fully customised upper and lower rudder stock bearing seals

Our rudder stock seals are custom designed to seal the

upper and lower rudder stock bearings. Lagersmit can offer

various type of lip seal materials depending on the type of

CRUISE SHIPS, YACHTS

SUPREME® FIN STABILISER SEAL



PREVENTS WATER INGRESS INTO THE DRIVE TRAIN

In the cruise and yacht industry many fin stabilisers are already equipped with our custom-made, state-of-the-art Supreme seal. The seal prevents water ingress into the drive train of the fin stabiliser and can withstand the abrasive environment of coastal waters and harbours.

ADDITIONAL BENEFITS

Highly corrosion resistant

SAFE RETURN TO PORT

Safety on board should always be a priority. The Supreme Bulkhead seal is generally used to prevent flooding of the bulkhead seal's adjacent compartments in the unlikely event of an accident. The bulkhead seal consists of divided aluminum housing parts, comprising Supreme® lip seals that are fitted on the shaft by ball chains. The lip seals can be bonded in situ, making it easy to install and perform maintenance.

Lagersmit also provides gas-tight bulkhead seals on request.

ADDITIONAL BENEFITS

- Seals off non-flooded compartments if flooding occurs
- Ensures a safe return to port
- Allows large radial (5 mm) and axial (30 mm) play
- Can be used for low- and high-speed shafts

EAL STORY: MEYGEN PROJECT SEALING SOLUTION FOR TIDAL TURBINES



ATLANTIS RESOURCES

We have been specialised in tidal generation shaft seals since 2003. Due to our expertise in the tidal energy field, tidal turbine supplier Atlantis Resources got in touch in order to develop a suitable sealing solution for their tidal turbines for the MeyGen project. Engineers from both companies formed one team, to go through the various design stages: from primary design until the finalization of the sealing solutions within the tidal turbine unit. After various design revisions and testing stages, we delivered and installed the Supreme TG-850 seals for Atlantis' AR1500 Tidal generator unit in the beginning of 2016.

66 WE ARE IMPRESSED BY THE QUALITY OF LAGERSMIT'S PRODUCTS. THE DEDICATION OF ITS TEAM AND THE **PROFESSIONALISM THAT HAS BEEN DISPLAYED IN** WORKING WITH OUR TECHNICAL TEAM WAS EXCELLENT

SUPREME® TIDAL GENERATION

ADVANTAGES

Want more information about our sealing solutions for tidal turbines? Contact us info@lagersmit.com

SUPREME® GEARBOX SEAL



SEALING THE GEARBOX FOR INTERMEDIATE SHAFT DIAMETERS 116 MM UP TO 1150 MM

Different custom seal designs are engineered for gearboxes and bearing blocks operating under varying conditions. Supreme seals can be applied to propulsion gearboxes as well as submerged cutter shaft gearboxes for cutter dredgers, operating under harsh conditions.

The gearbox seals are engineered as a fully split design and can have a floating set-up to ensure extreme shaft movements are followed smoothly.

ADDITIONAL BENEFITS

- Reliable
- Durable

Looking for an especially designed seal for your tidal turbine? The Supreme Tidal Generation is your solution.

 Optimised maintenance interval • Environmentally friendly

WE KNOW YOUR PEACE OF MIND



CUSTOMISED OPTIONS

Fairly simple additions may add big benefits to your seal design. Take for instance wire winders and net cutters, to prevent fishing lines from entering your seal, or the HML liner coating that protects the liner against heavy wear. These popular options are commonly used to ensure an optimised seal life time!

BART VAN LEE Account Manager



orward seal with an oil collector ring the engine room.

BENEFITS

- A clean engine room
- of accidents

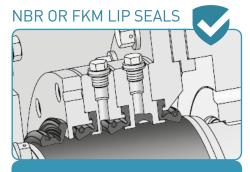
HARD METAL LINER COATING



poking for a way to lengthen the lifetime of your whole seal? Install a liner with a ard metal coating.

BENEFITS

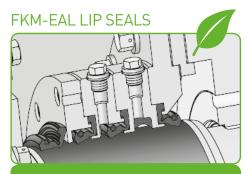
- Improved liner lifetime
- Good effective heat transfer, reduced ageing of the Supreme® lip seals
- Less docking time, and cost savings by not having to machine the liner



What is your speed and draught? Depending on the vessel's operating onditions we recommend you to use upreme FKM lip seals or Supreme NB p seals.

BENEFITS

- Supreme FKM lip seals are more resistant to higher temperatures than Supreme NBR lip seals.
- Supreme NBR lip seals are more resistant to abrasive particles than Supreme FKM lip seals.

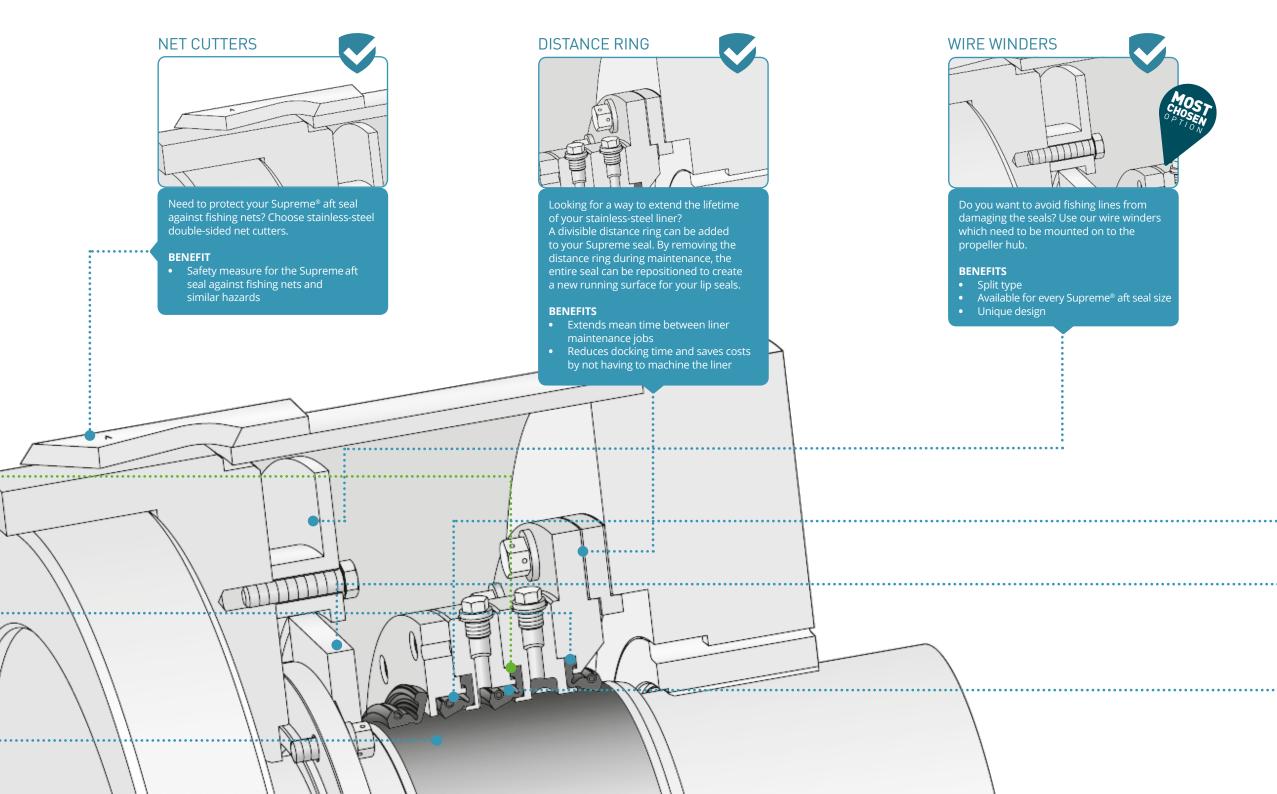


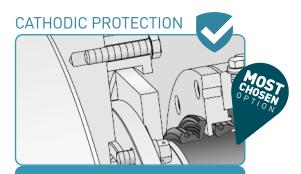
Are you using an EAL instead of mineral oil? An especially developed Supreme® FKM-EAL lip seal is available, which is m hemically resistant against hydrolysed ster-based EALs.

BENEFIT

 More chemically resistant to aggress acidic lubricants; swelling of the lip sea

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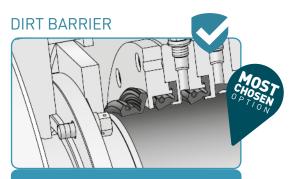




hoose extra anodes to deliver improved corrosion protection on your liner. Sailing in US waters? We also offer with the VGP!

BENEFITS

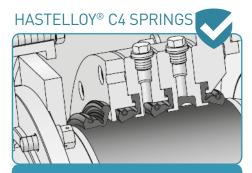
- Safety measure for the Supreme aft seal against galvanic corrosion
- VGP compliant with aluminum anodes



Vould you like to avoid damage to the aft seal caused by sand and debris? Choose a dirt barrier which also prevents small fishing lines from entering the seal.

BENEFIT

• Safety measure for the Supreme aft seal



ooking for lip seal springs that are more resistant to corrosion? Equip the Supreme ip seals with Hastelloy[®] garter springs.

BENEFITS

- Highly corrosion-resistant spring
- increased reliability of the sealing

OPTIMISING KEEPS SEAL'S YOU LIFETIME GOING



STERN TUBES BEARINGS

Using a complete set of stern tube, bearings and seals by Lagersmit, ensures that all elements are perfectly attuned to each other. It also means that our team is your single point of contact for the complete stern tube and sealing system.

Did you know we have been delivering Peace of Mind with high quality castings of bearings since 1856?

Account Manager

CENT VAN DER HEIDEN

STERN TUBE

In search of a complete stern tube system, including bearings and piping? We deliver fully machined and assembled stern tubes suitable for oil and grease lubrication. To allow easy installation and alignment, resin casting is used to connect the stern tube with the ship's structure. The design can be customised according your needs with a broad range of options.

BENEFITS

- Complete package including bearings, seals and piping
- Ready machined in a controlled environment
- Easy installation by means of resin casting
- Interfacing with Lagersmit-type seals

STERN TUBE **AFT** BEARING

STERN TUBE FORWARD BEARING

We offer white-metal lined stern tube bearings, suitable for oil- and greaselubricated applications. The design is based on proven technology and can be customised with various materials and options (e.g. temperature sensors).

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BENEFITS

- Design based on proven technology
- Delivered pre-machined for flexibility
 on site
- Suitable for either new-build or retrofit applications
- Can be customised to fit the intended application



INTERMEDIATE SHAFT BEARING

Lagersmit delivers intermediate bearings to support longer shafts in a driveline. The intermediate bearings are selflubricating so no additional piping or oil pumps are required. For ease of installation the design is executed in split parts.

BENEFITS

Self-lubricatingEasy installation due to split design

VESSEI

Want more information about our class approved sealing solutions which are in line with the (s)VGP? We can assist you.

On 19 December 2013, the revised Vessel General Permit (VGP) issued by the US Environmental Protection Agency (EPA) came into force. This means that the VGP mandates the use of Environmentally Acceptable Lubricant (EAL) in all oil-to-water interfaces (e.g. stern tube seals, thruster seals) on all merchant vessels of 79 feet or longer that are sailing in US coastal and inland waters – unless technically infeasible or a system which achieves 0% pollution.

SMALL VESSEL GENERAL PERMIT

For ships that are less than 79 feet (24 meters) the Environmental Protection Agency (EPA) issued the Small Vessel General Permit (sVGP). From 19 January 2018, smaller and fishing vessels have to meet the requirements for all incidental discharges. The term 'incidental discharges' includes a range of wastewater discharges from vessels during normal operations. Examples are ballast water, bilge water and grey water (e.g. water from sinks and showers).

As an alternative to using an EAL, it's also possible to use an alternative zero emissions seal design. Think of the Supreme Ventus[®] and Supreme Athmos[®], which are both verified by DNV GL to be in line with the (s)VGP.

EAL OR MINERAL OILS?

In case you have to be in compliance with the VGP criteria, Lagersmit is there to assist you. We serve the market with options when using EAL or mineral oils.

We can equip your seal with special FKM-EAL seals that are compatible with a broad range of EALs. An updated list of compatible lubricants can be found at www.lagersmit.com/eal.

Account Manager

REAL SERVICE

SERVICE

Our service engineers are your seal experts and can be on location within 48 hours worldwide. Every engineer is specifically trained to ensure optimal quality. Their focus ranges from installation to supervision, and from troubleshooting to regular maintenance.

After every service job, we carefully store all relevant information to ensure your Peace of Mind during the next maintenance job. This enables you to keep going, 24/7, worldwide.

- Commissioning
- Extended warranty
- Troubleshooting
- Installation
- Retrofit
- Maintenance
- Overhaul

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DUSTIN VAN HOP **Commercial Director**

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