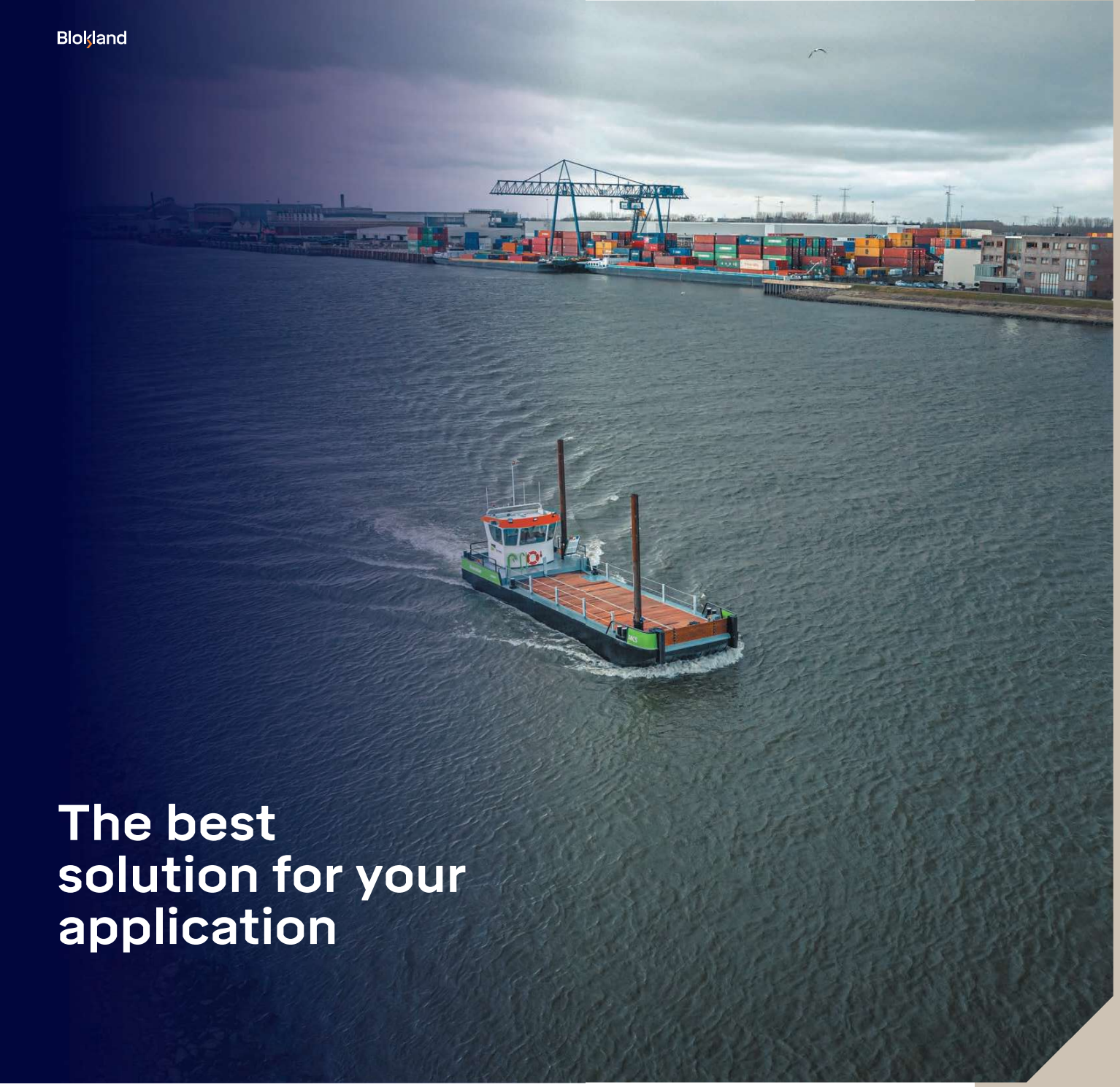
Blokland



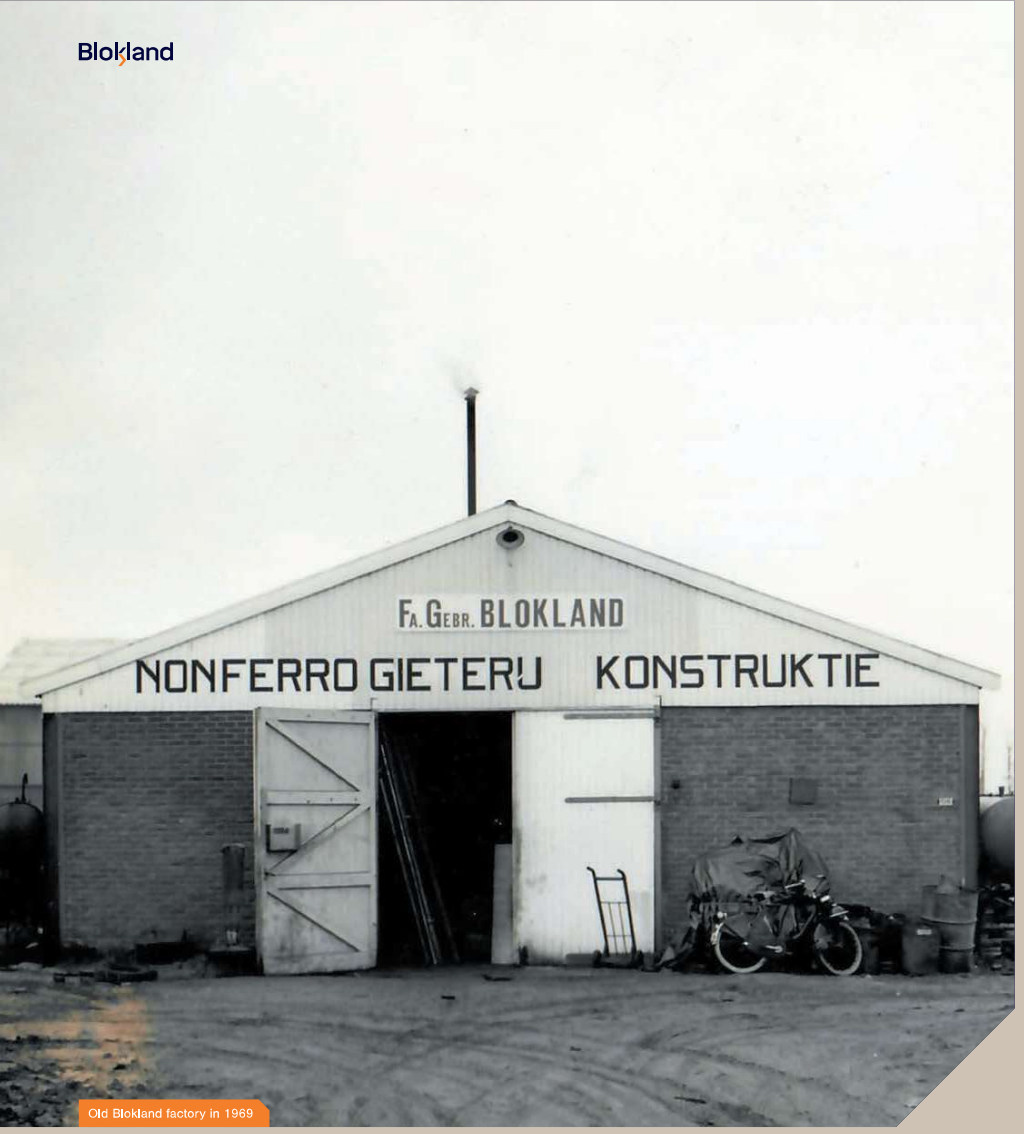
High-standard maritime cooling & propulsion



The best solution for your application

Keep moving forward

We have earned an excellent reputation when it comes to supporting our clients with outstanding cooling and propulsion solutions. We are not easily satisfied and go to great lengths to provide our clients with a solution that is as optimized and reliable as possible. Using all our expertise, craftsmanship, high-quality machinery and the timeless effort of our dedicated employees. So, we defined our mission:
Blokland - Keep moving forward.



Old Blokland factory in 1969

Blokland Non Ferro

Blokland Non Ferro is a second generation family-owned company. We understand the value of keeping our word and are well established in the world of marine solutions. As a family business, we continuously invest in technical innovations. We use an approach that goes back to our early beginnings: no-nonsense, well-thought-out, pragmatic – with the objective to put ideas into practice as fast as possible.

Over 60 years experience

In 1962 Jan Blokland started his company. A small-scale family business that developed and manufactured marinisation parts for diesel engines. In years that followed, many products have been developed and produced. These includes shell & tube heat exchangers, boxcoolers, propeller shaft systems and rudder systems. Meanwhile, we have become a global business.



Second and third generation of Blokland


Blokland as shipyard in 1962


Jan and Corine with the build of one of the new production halls in 1993



Dutch craftsmanship

We pride ourselves in integrating Dutch craftsmanship with sophisticated know-how and the latest technologies. To our craftsmen, perfection is the highest priority. Blokland operates with a team of motivated and enthusiastic individuals who do not accept anything less than perfection.

Innovation

Innovation is part of our DNA. We are well-known worldwide for our outstanding products and game-changing innovations. Still, we don't take anything for granted. We continuously invest in R&D and innovation, and forge ahead to deliver the best equipment and services for marine and industry applications.



Cooling

Cooling solutions for marine and industry

We provide you with outstanding products for cooling main engines, auxiliary engines and generator sets.

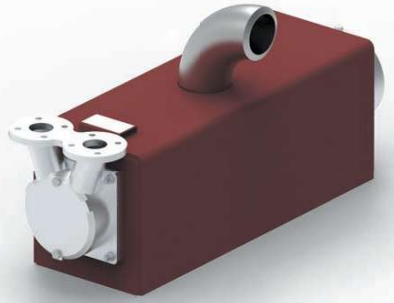
Boxcoolers

Using Blokland boxcoolers in the design of efficient cooling system, has been done during many years for different types and sizes of ime vessels and installations. Installed in the primary cooling circuit, boxcoolers obviate the need for raw water pumps, filters and piping systems and prevent the corrosion issues related to them. Over the years different types of workboats, cargo vessels, fishing boats, ferries and dredgers have been using these coolers for main engines, generators and auxiliary systems. Nowadays boxcoolers are not only used in modern fuel-saving and green fuel propulsion solutions, but are also part of the fuel saving measures.



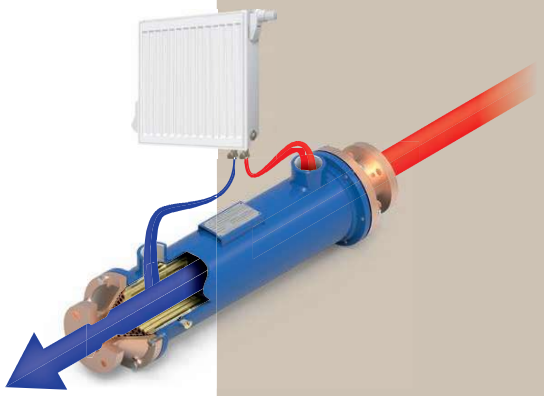
Bottom-type coolers

The bottom-type cooler is an ideal cooling system for pleasure and commercial shipping. The steel box of the bottom-type cooler is placed inside against the bottom of the ship. As a result, the bottom of the ship remains completely smooth. So there are no protruding parts to damage or weed trays to clog. You do not need an extra outboard water pump in this case. Installation is simple and the tube stack can be disassembled. Bottom-type coolers are very suitable for places with a low installation height.



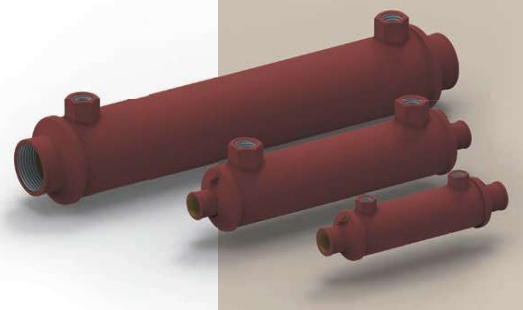
Heat recovery

With these heat exchangers of Blokland Non Ferro you make good use of the waste heat of your engine. The waste heat of approximately 80°C can be used to fully or partially heat your sleep- and living quarters by using a heat exchanger. The installation is simple and the installation costs are low. When the pipework for the central heating system is properly installed and by mounting the heat exchanger vertically, the system works through natural circulation and a pump is not necessary. In short: a product we warmly recommend!



Heat exchangers / oil coolers type 55, 75 & 90

The soldered coolers type 55, 75 & 90 are available in single and double circuit versions. The coolers with single circuit can be used as an oil cooler or heat exchanger. The coolers with double circuit are suitable for a combination of engine-oil cooler and gearbox cooler. The end caps are soldered.



Heat exchangers / oil coolers type 100, 140, 165, 200, 275 and 400

Blokland is leading in the production and supply of Shell & Tube heat exchangers/ oil coolers. These coolers are suitable for water, water-glycol mixture and various oils. The tube stacks are removable for service and maintenance. Blokland has a wide range of competitively-priced heat exchangers. We have many heat exchangers in stock, which means short lead times.





Expansion tanks

Every cooling system is equipped with an expansion tank. Blokland supplies standard expansion tanks with a capacity of 5, 10, 15, 24, 40, 60 and 80 liters from stock. These expansion tanks are equipped with a 1" or 2" BSP thread connection. The expansion tanks are supplied fully assembled with a pressure cap of 0.5 bar. A sight glass and level switch are used to inspect the tank. We are also able to deliver custom-made expansion tanks.

Plate heat exchangers

The plate heat exchangers consists of a pack of heat transfer plates, with port holes, compressed by the frames and tightening bolts. The plates are made of pressed titanium or stainless steel sheet metal with a corrugated pattern. The corrugated plate channel are designed to achieve maximum heat transfer. Each plate is provided with an elastomeric gasket which seals between channel and directs the fluids into alternate channel.





Cathodic protection

In order to protect metal parts under water, cathodic protection by means of anodes is necessary. Blokland offers a broad range of several types of zinc, aluminium and magnesium anodes.

Repair & Cleaning

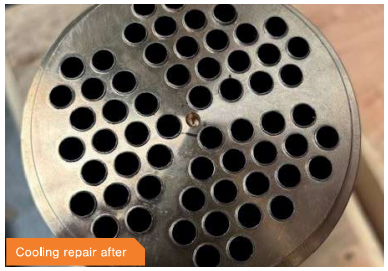
Heat exchangers, boxcoolers and engine blocks

Blokland Non Ferro is specialized in the repair and cleaning of box coolers, oil coolers, heat exchangers, charge air coolers and bottom-type coolers. Blokland Non Ferro has a large and specialized factory with cleaning facilities. A short lead time for the cleaning and repair is possible.

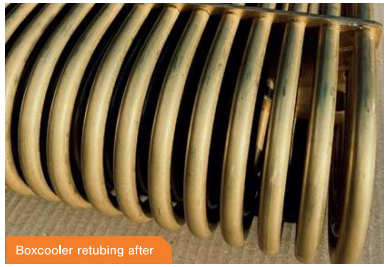

Boxcooler cleaning and repair before


Boxcooler cleaning and repair after


Cooling repair before


Cooling repair after


Boxcooler retubing before


Boxcooler retubing after



Repair and cleaning scope

The repair and cleaning of boxcoolers, oil coolers, heat exchangers, charge air coolers and bottom type coolers consists of the following activities:

- Chemical cleaning
- Ultrasonic cleaning charge air coolers / engine blocks
- Re-tubing
- Replacement of tube-sheets
- Reproduction element according to example or drawing
- Reproduction according to example or drawing
- Repair and coating of steel heads
- New sealing kits
- Pressure test



Keep Moving Forward

Propulsion

Propulsion solutions for commercial vessels and pleasure yachts

We provide you with high-tech propulsion systems for the best sailing experience. Custom designed and manufactured, recognizing your specific vessel operation profile and hull design.





Commercial

For commercial vessels, the reliability of the propulsion and rudder systems is extremely important. Downtime results in delays and high costs. Our propulsion systems are well equipped to fit commercial vessels and keep them moving forward anytime, anywhere.

Our range of standardized, off-the-shelf products enables us to respond quickly to your immediate maintenance needs. Nevertheless, we can provide you with the fast delivery of our custom-made propulsion systems. Leveraging the large stock level in our warehouse, an accurate production planning and high-tech production facility, we are your partner in case of fast maintenance and service.



Pleasure

We truly enjoy engineering and the production of propulsion and rudder systems. We keep you moving forward with our high-tech propulsion solutions. Thanks to our in-house engineering and production capacity, we deliver propulsion systems which are optimized for your application. Every yacht is unique. Therefore, we approach each project with the same, extensive expertise but a tailored point of view. Within propulsion and rudder systems, our portfolio is focused on yachts with a length of 5 up to 70 meters.

Careless sailing and traveling the world is of tremendous importance for the yachts we are equipping. We are determined to contribute to this, so that our clients can fully enjoy sailing the world without the need to worry about the potential environmental harm of our products. For this reason, we continuously develop and improve our environmental capabilities while investing in new and innovative technologies.



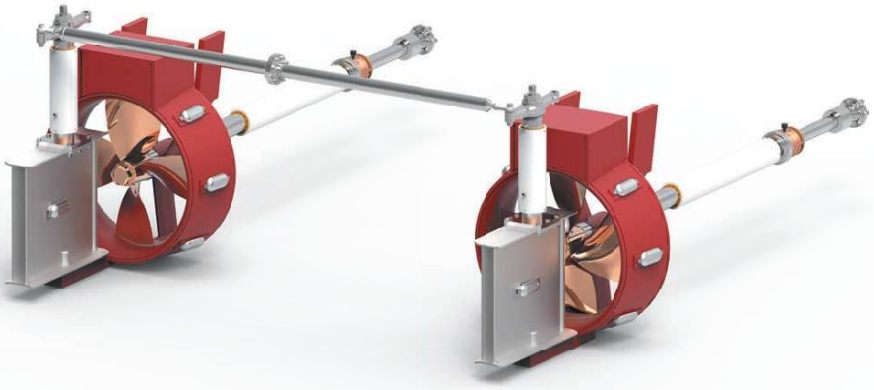




Keep Moving Forward

Fixed Pitch Propeller Systems

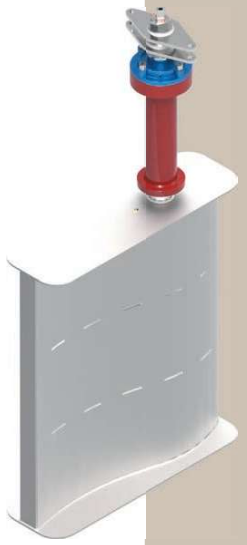
The Fixed Pitch Propeller system (FPP) will be custom engineered and delivered as complete package. Thanks to our in-house engineering and production capacity, we deliver propulsion systems which are optimized for your application.



EasyStern® CWS Propeller Shaft System

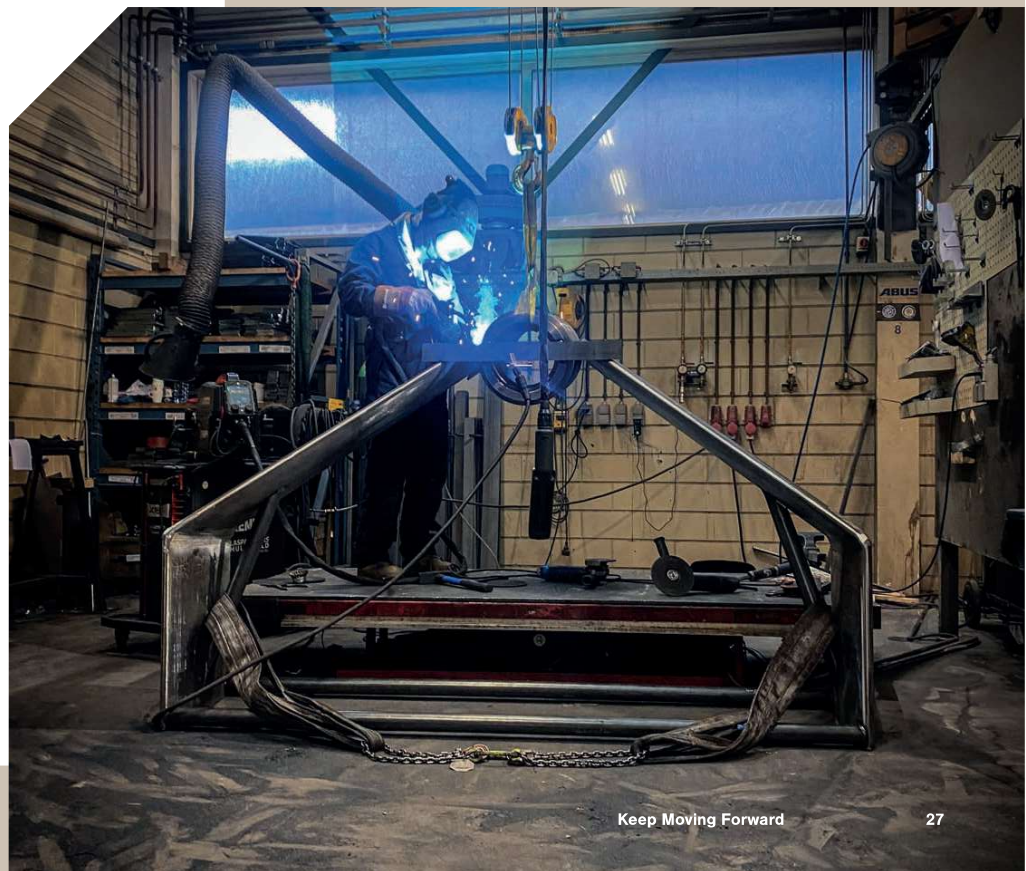
The EasyStern CWS stern tube system is specially designed for fresh water/ glycol based coolant. Closed water systems have less total system wear and bearing have a longer life span compared to 'open' water lubricated systems.





Rudder Systems

Blokland Rudder systems are custom designed to suit your vessel and requirements. We will be happy to be of service for your vessel.



Propellers

We calculate, advise and supply several propellers for your specific project. We have an extensive experience in calculating your optimal propeller. High quality, optimal performance and as less noise and vibrations as possible, are part of our standard.



Shaft Seals

Shaft seals are an important part of our propulsion system. Therefore, we are only using the best shaft seals to prevent leakage in your vessel. We are using several types of shaft seals, which depends on the lubrication of your stern tube, such as: water lubricated, grease lubricated, oil lubricated or glycol lubricated.



Bearings

Bearings are used to support propeller and rudder shafts and are an important part of a propulsion system. Therefore, we only use and produce the best bearings available. We have several types of bearings, all depending on the propeller shaft system which is best suitable for your application.



Shaft Couplings

We are using several shaft couplings for a best result on board your vessel. We are using flexible couplings, Aquadrives and Propflex units.

A flexible coupling provides a flexible connection between the shaft and gearbox. This will reduce noise and vibration on board and is damping torsional vibrations. The VULKAN Megiflex-BT is available from 194 Nm up to 8125 Nm.

The PROPFLEX T is well used in yachts and commercial vessels and is an excellent solution to reduce noise and vibration. The PROPFLEX T is the combination of a flexible and propeller thrust absorption coupling.

The Aquadrive anti-vibration system will help you enjoy the peace and quiet of boating. By isolation the engine from the rest of your boat, noise and vibration are greatly reduced. Most installation result in 50% or more reduction in cabin or cockpit noise and vibration. Also wear and tear on the transmission and cutlass bearings will be minimized.

VULKAN Megiflex-BT



VULKAN Propflex T



Aquadrive





Blokland

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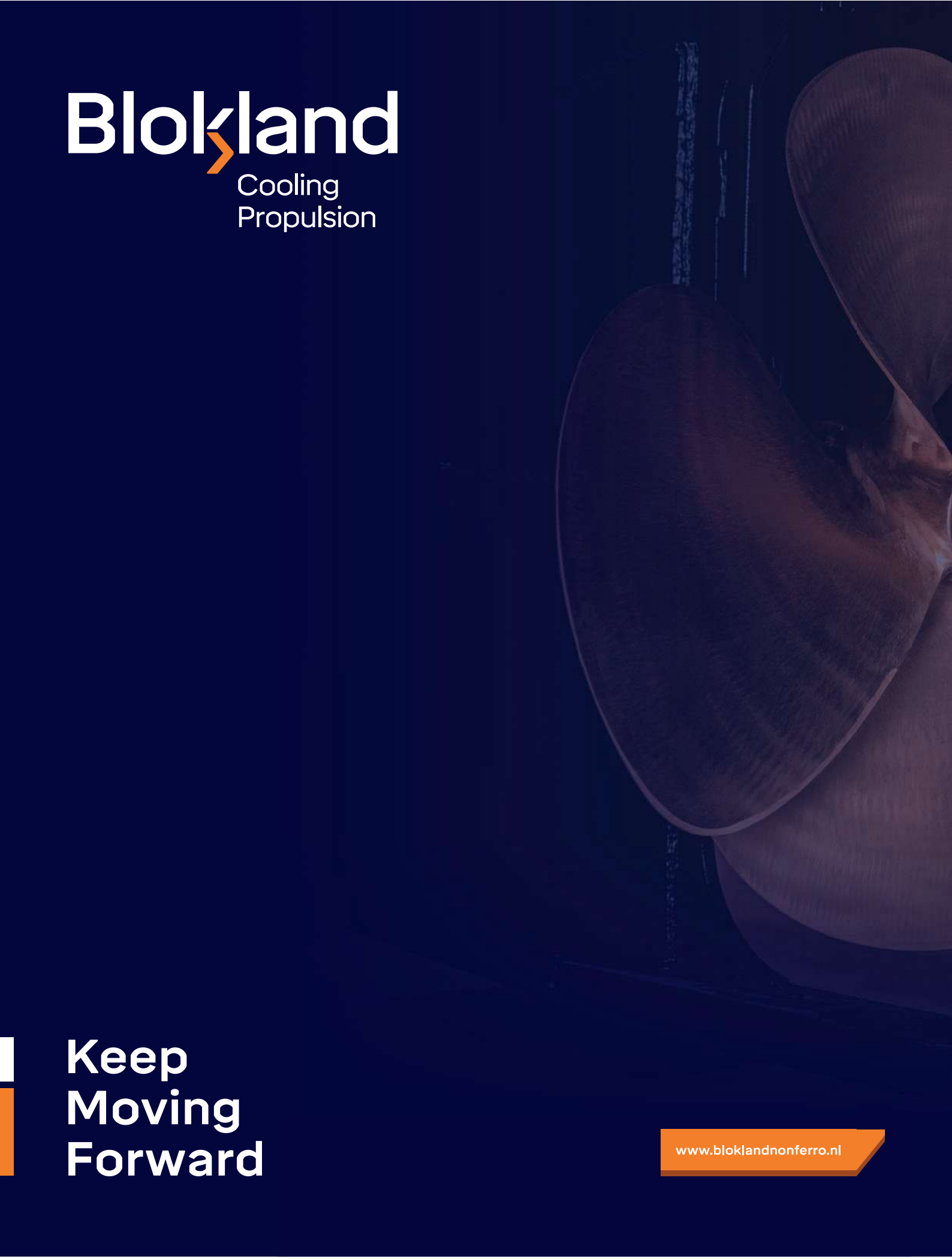
Blokland

Cooling
Propulsion



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