



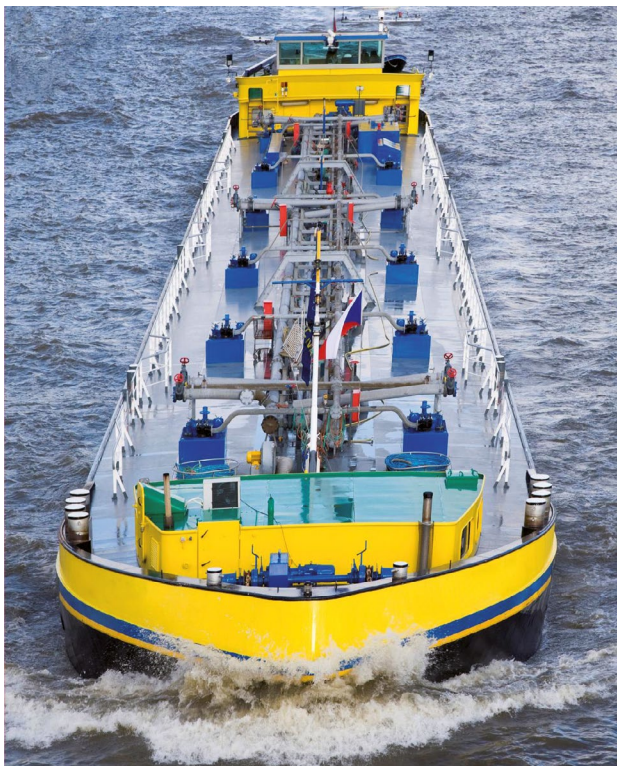
POSEIDON

PROPULSION B.V.



 Visit us

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HELLO

Poseidon Propulsion B.V. is your trusted address with more than 30 years of experience in the field of marine propulsion and steering systems. We are specialized in super yacht applications and specials for inland and offshore. Poseidon produces and supplies highly technical products into the marine industries. For the commercial crafts we have standardized a product line with a high professional level.

Most parts and products will be designed and built in house. They will be delivered with the approval of the known classification societies and meet the highest standards.

The vessels equipped with Poseidon propulsion and steering systems are mainly found in the range 50 to 450 ft super yachts and work boats.

For more detailed information or an inquiry, please don't hesitate to contact us.



Albert van Wijk
General manager
0180 629009



Custom designed and made stern gear
You name it, we design it.

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Thrusters
Azimuth, Deckmounted, Retractable and tunnel ones.

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Poseidon Silent Thrust Propeller
We are very proud on this unique PSTP!

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Propellers
Custom made and manufactured in any kind of material.

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In and outboard shaft seals.

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Thrustblock and flexible couplings.

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Nozzles
Fixed and steerable with great advantages.

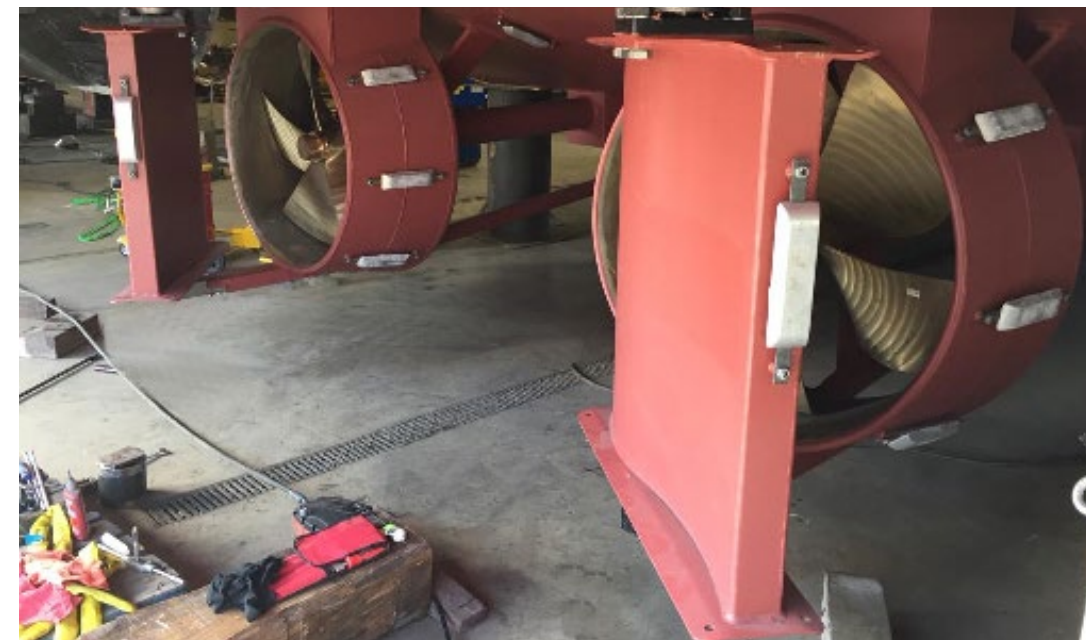
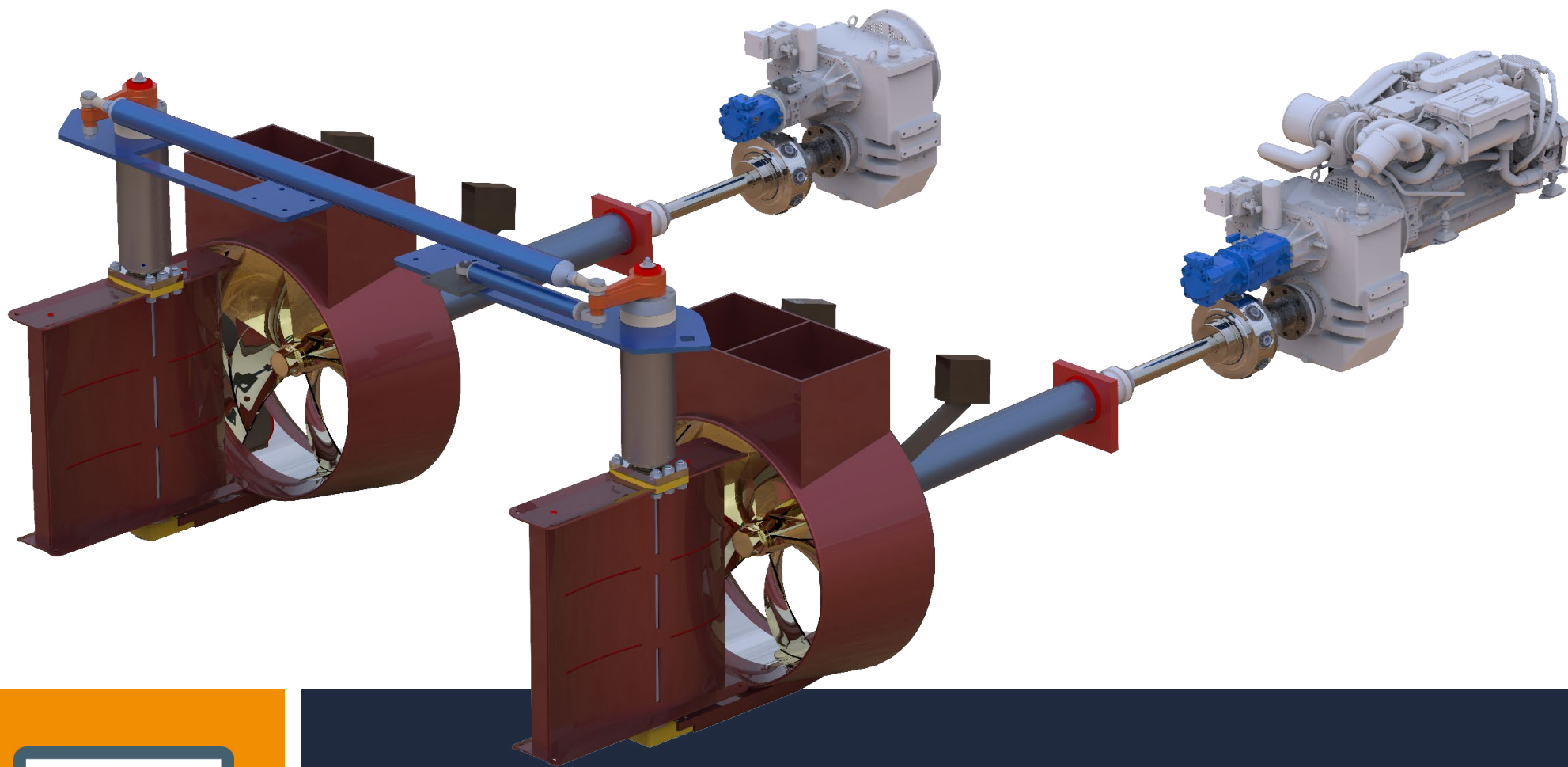
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Poseidon rudders
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Poseidon oil lubricated.

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CUSTOM DESIGNED & MADE STERN GEAR

We design and manufactures custom designed standard stern gear and rudder installations. What can you expect from Poseidon: and what is possible:

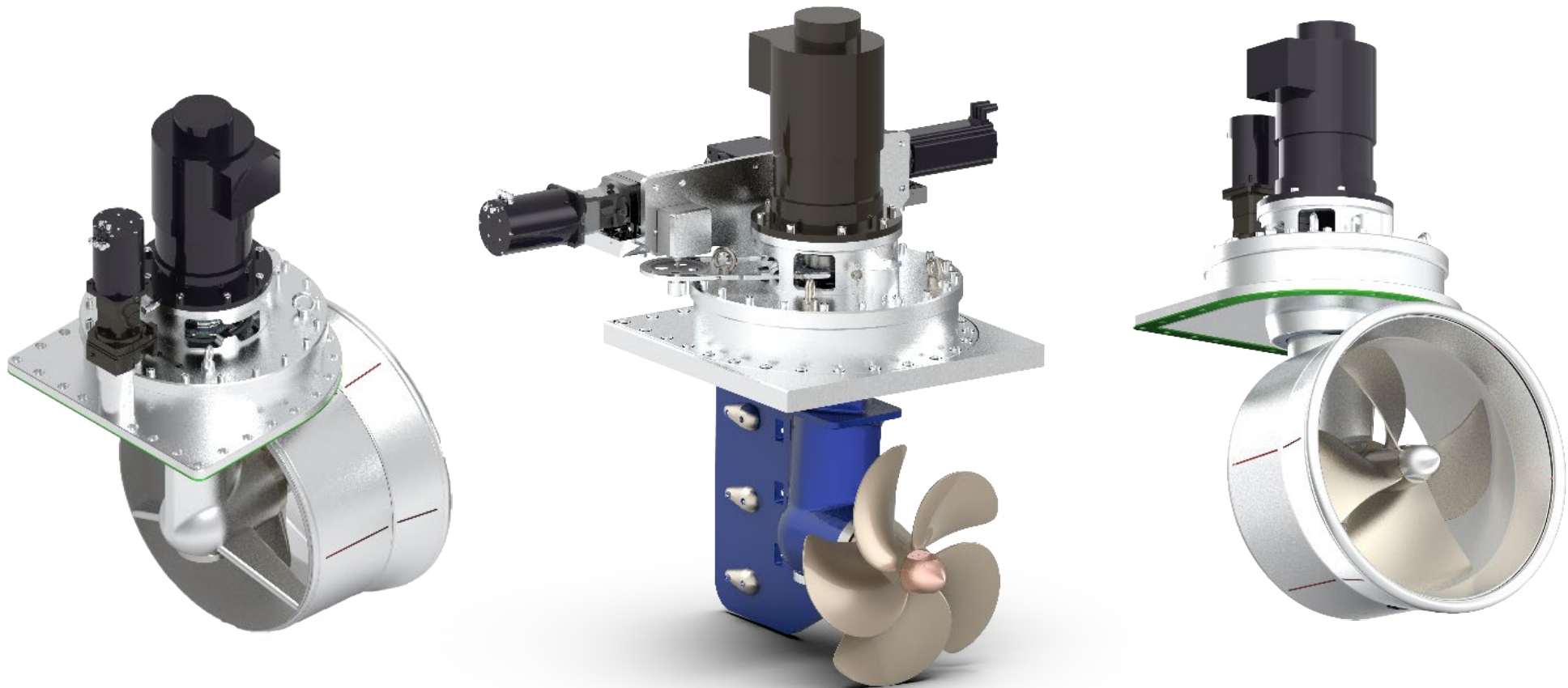
- each component designed in 3D (Hypermill)
- shaft and rudder systems manufactured in any type and material
- by any classification society provided
- torsion vibration calculations, axial whirling
- total installation of the equipment
- inspection of the installed installation and alignment.

The entire design and manufacturing is done in close collaboration with the client, the shipyard and the designer.

VESSEL	: MS "RVE 86"
PRODUCT	: CUSTOM MADE STERN GEAR
SHIPYARD	: MERWELANDS SHIPYARD ROTTERDAM
OWNER	: KNVE ROTTERDAM
CLASSIFICATION	: BUREAU VERITAS



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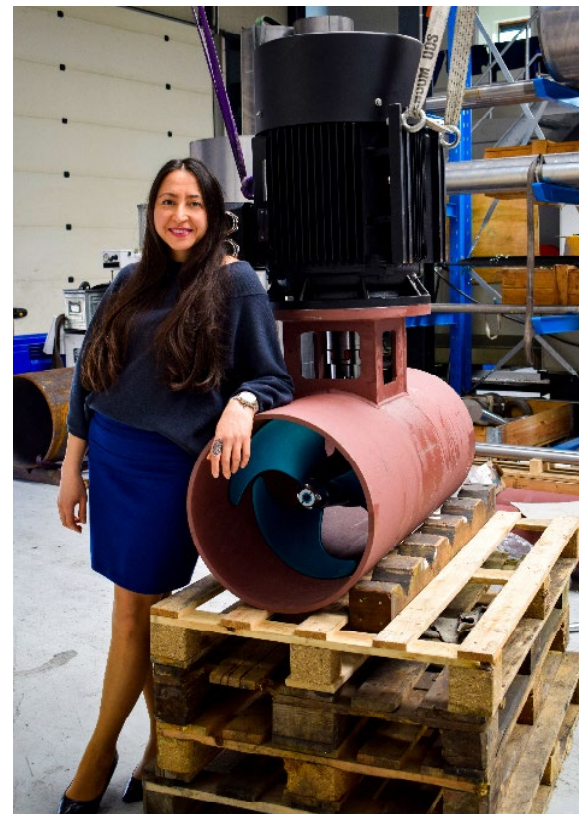
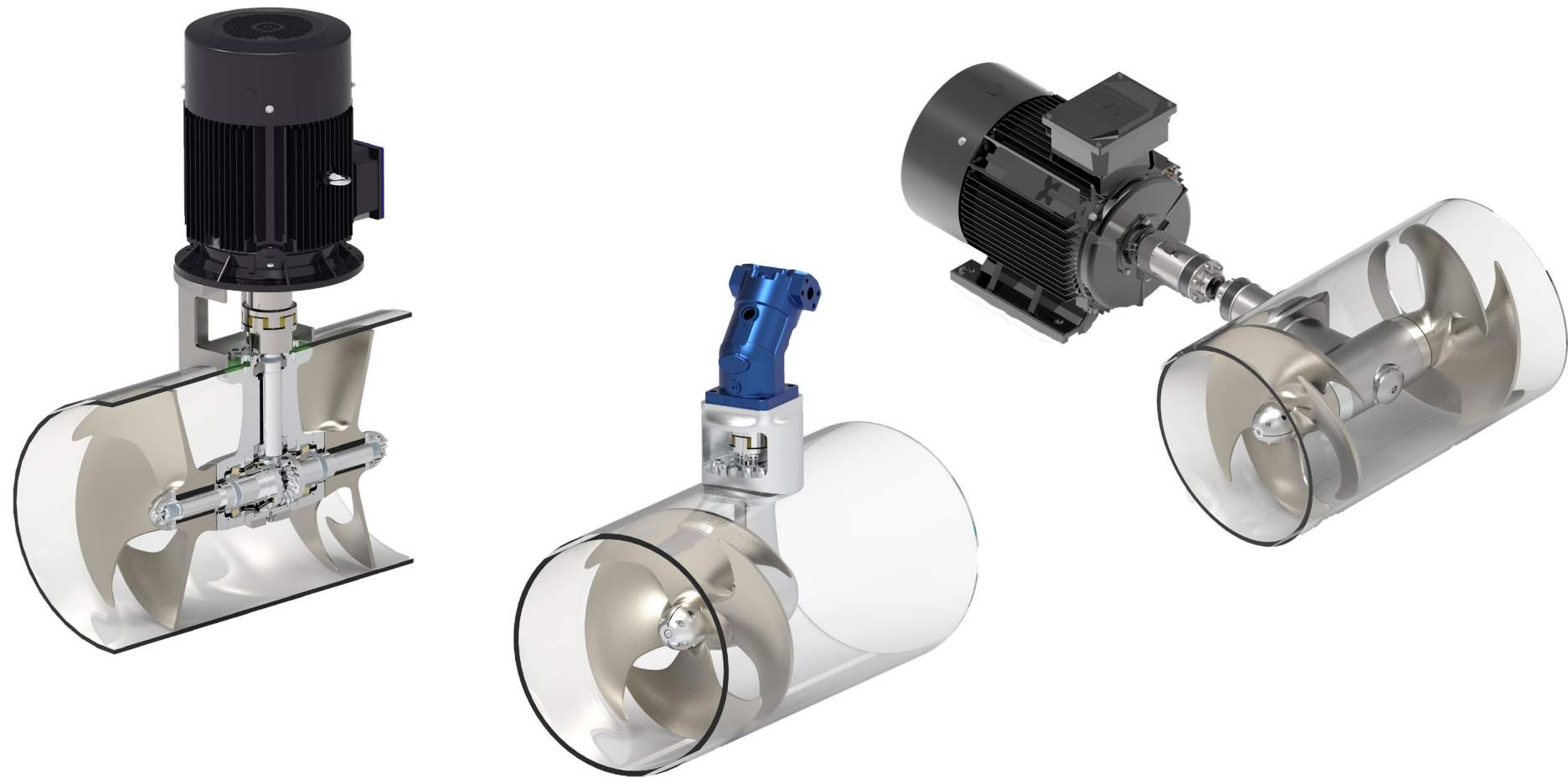
AZIMUTH THRUSTERS

The name Azimuth comes from the horizontal celestial coordinate system. The azimuth coordinate is the horizontal angle around the horizon. An azimuth thruster is a steerable thruster that also turns in a 360 degrees angle around a horizontal bearing construction.

Poseidon brand Azimuth thrusters are often used for main propulsion. They are available from 60kW to 2900kW. Every individual thruster system can be optimized for vessel speed or for maximum bollard thrust. Azimuth thrusters are available in Z-drive configuration with direct diesel engine drive or in L-drive configuration for electric motor or hydraulic motor drive. The control system comes with an interface for the auto pilot system. An interface for dynamic positioning systems is optional.

Azimuth thrusters can replace conventional propulsion and rudder steering systems to perform both propulsion and steering functions. When advanced maneuverability is required in applications such as dynamic positioning, ship escort and ship docking services an Azimuth thruster is recommended.

VESSEL	: AQUAMARIJN
PRODUCT	: AZIMUTH THRUSTER TYPE PA110, 110 KW
SHIPYARD	: T'JOPPE B.V. IN WARMOND
OWNER	: BLUE BOAT COMPANY AMSTERDAM



TUNNEL THRUSTERS

For save and easy mooring, support during fishing and operation under dynamic positioning, tunnel thrusters are a good technical and economical solution.

The Poseidon tunnel thrusters can be installed as bow thruster or stern thruster in the transverse direction of the hull. We can supply electric motor driven, hydraulic motor driven and diesel engine driven tunnel thrusters from 20kW to 2900kW. The tunnel structures can be manufactured in steel, aluminium or FRP depending on vessel hull material.

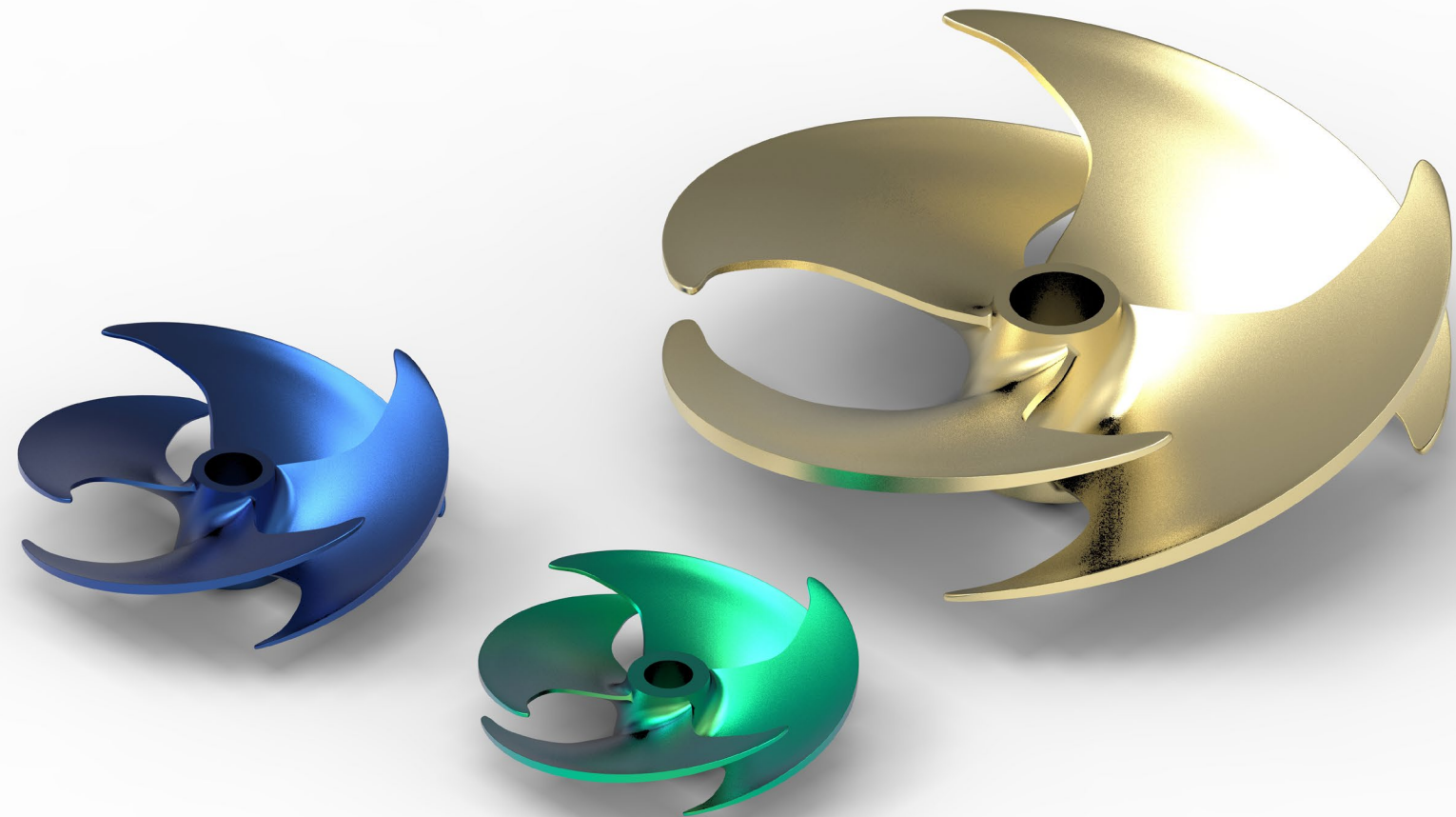
A full plug & play electric driven package consists out of a tunnel thruster with electro motor, frequency drive with programmed factory settings and a main control panel with proportional joystick for stepless control. Interface for full integration with dynamic positioning systems is optional.

VESSEL	: ADUANAS
PRODUCT	: CONTRA ROTATING TWIN PROPELLER THRUSTERS WITH A PSTP
SHIPYARD	: ANY YARD THAT BUILD VESSELS THAT CAN USE THESE THRUSTERS UP TO 110 KW.
CLASSIFICATION	: TUBE MATERIAL AND CONSTRUCTION CAN BE SUPPLIED WITH ANY SOCIETY

OUR THRUSTERS ARE USED FOR A WIDE RANGE OF VESSEL AND MOST POPULAR IN FAST SPECIFICALLY ALUMINIUM AND POLYESTER VESSELS FOR REASON THEY ARE LIGHT, LOW MAGNETIC, EFFICIENT AND VERY QUIET. SO PILOTS, COAST GUARDS VESSELS, MINESWEEPERS, YACHTS ETC.



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POSEIDON SILENT THRUSTER PROPELLER

Poseidon has an unique propeller in her portfolio! A cavitation free bowtruster propeller. This propeller will create no yelling annoying noises! And so your tunnel thruster will be silent.

The Poseidon Silent Thruster Propeller (PSTP) is manufactured either in aluminium, bronze or stainless steel. Any diameter is possible. The PSTP can also made suitable for any existing thruster. The PSTP sure will give no worse trust performance then ordinary propellers. Even better! As they do not cavitate. We have advanced software to make required proper calculations for sizing and performance. Especially for yachts and DP vessels these PSTP are heavens!

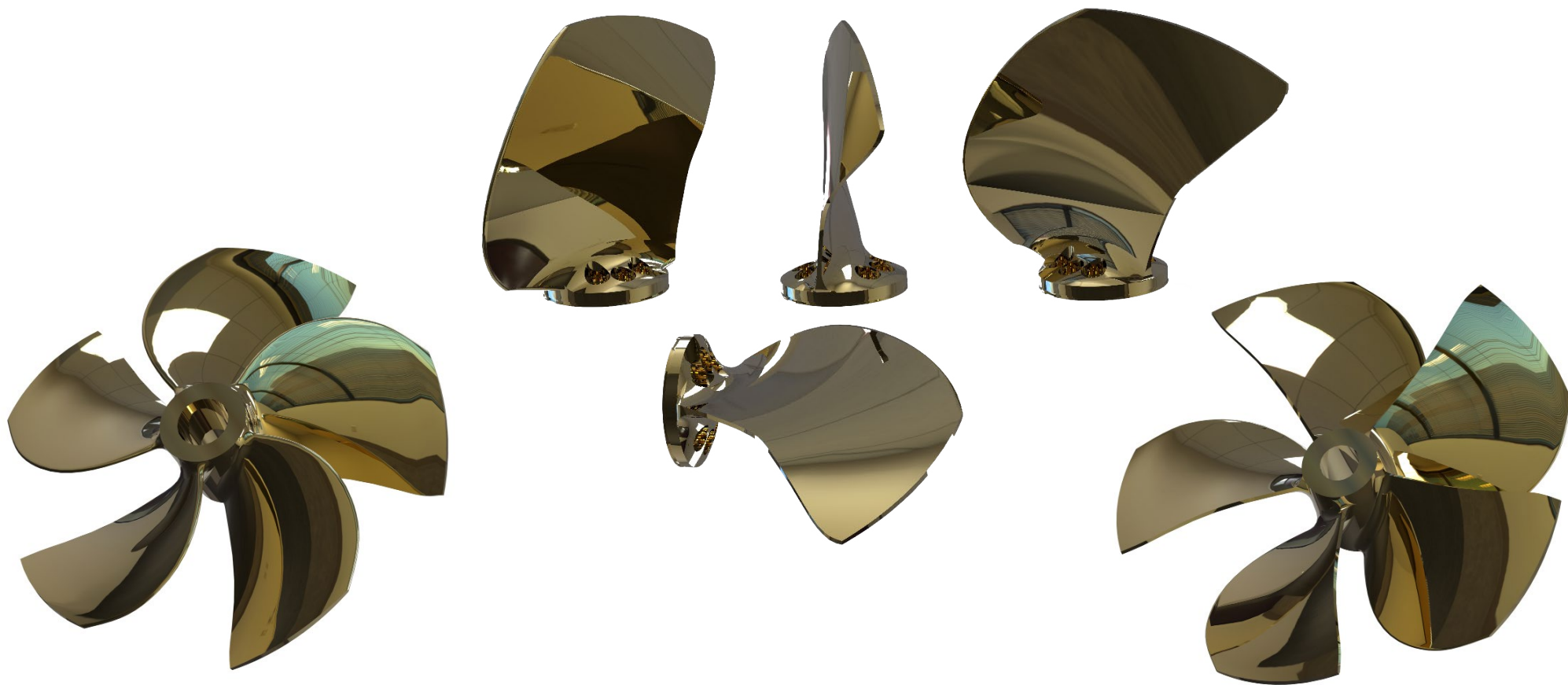
Poseidon did some tank test with different styled propellers. The tests were conducted with three propellers and one PSTP. The used propellers are all representative in the market and all suited for the same power.

Proven 6 up to 8 dB noise reduction and 75% less propeller pressure pulses!



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VESSEL	: MS SHOREWAY
PRODUCT	: PSTP
SHIPYARD	: IHC
OWNER	: BOSKALIS
CLASSIFICATION	: BUREAU VERITAS



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PROPELLERS & CPP BLADES

Our custom designed and made propellers are all calculated and 3-D designed in house. The production of our custom propellers take place in approved foundries. Propellers can be produced for ice class applications and extreme working conditions.

To design the suitable application, we carefully will consider:

- Number of blades
- Blade shape
- Blade area
- Skew
- Rake
- Cambers and hubb

VESSEL

PRODUCT

SHIPYARD

OWNER

: RPA1

: CPP BLADES

: MERWELANDS SHIPYARD ROTTERDAM

: PORT OF ROTTERDAM



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PEGASUS SEALS

The Pegasus seal meets the modern high quality standards and are developed for applications where NO leaking is allowed. Shaft sizes from 50 up to 300 mm (2" up to 12").

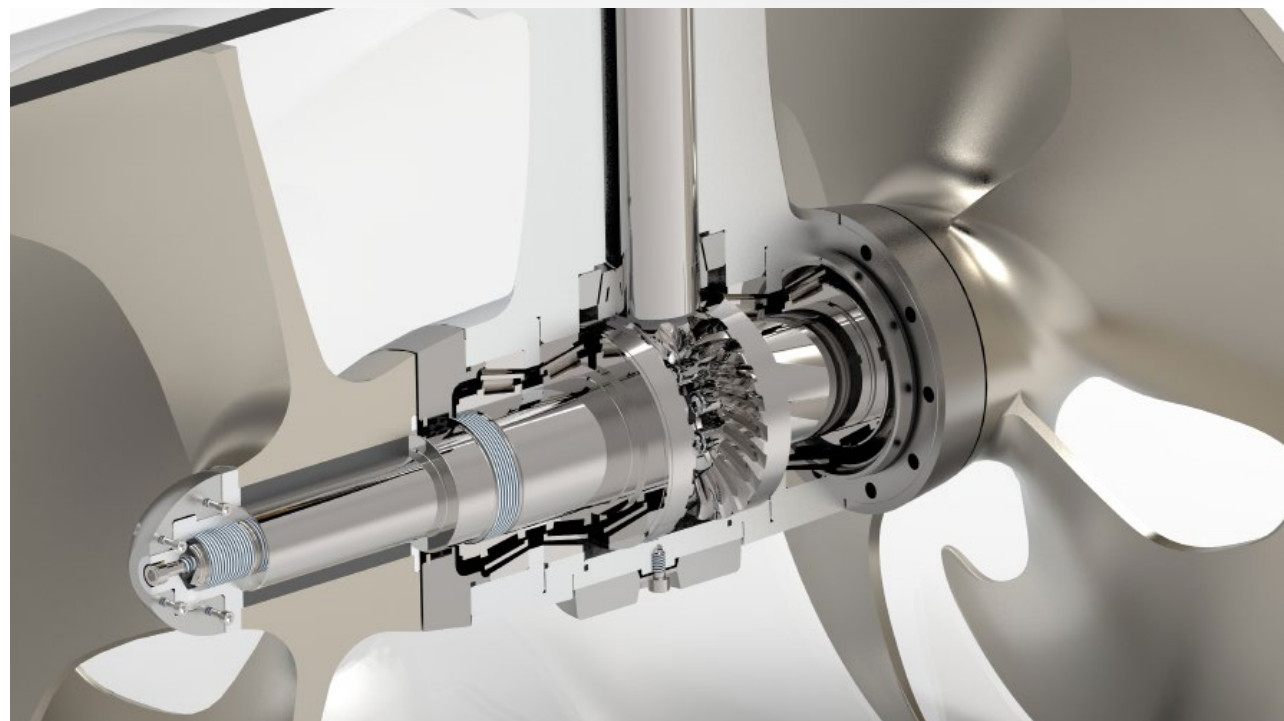
Poseidon designs and manufacturers a serie of special shaft seals. They are available for water, oil and grease lubri-cated applications. Water and grease also as a closed loop system.

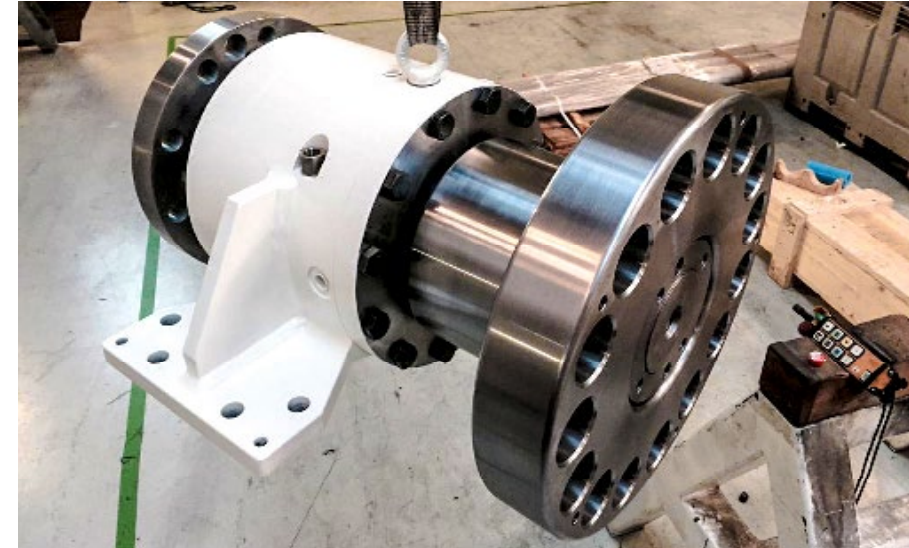
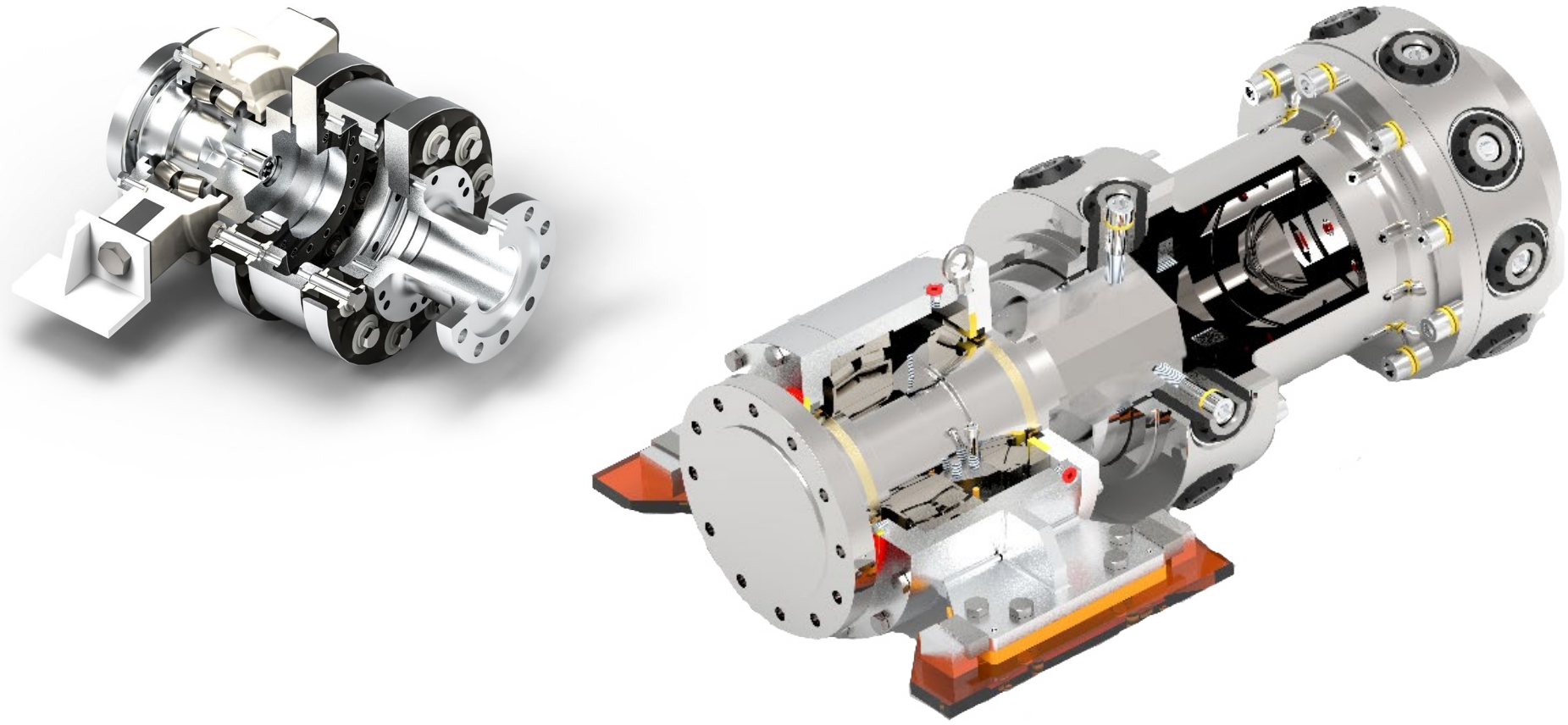
They can be integrated in any system for any type of vessel.
We can supply them with special coated wearing lines, stand by seals, automatic greasers, integraded zinc anode plugs etc.

The seals are type approved by Bureau Veritas.

VESSEL	: FCSV DOÑA ANGELA MARIA T.
PRODUCT	: PEGASUS SEAL
SHIPYARD	: DAMEN SHIPYARDS
CLASSIFICATION	: BUREAU VERITAS

SHIPYARD DAMEN IS USING OUR SEALS IN THEIR RANGES OF
FASTER VESSELS





ORION THRUST BLOCK

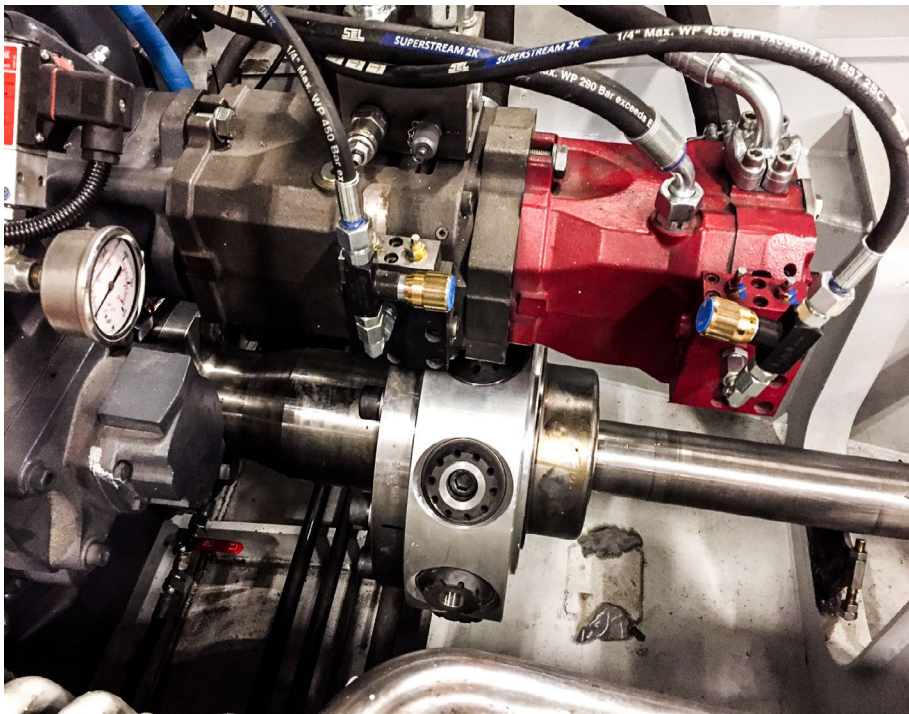
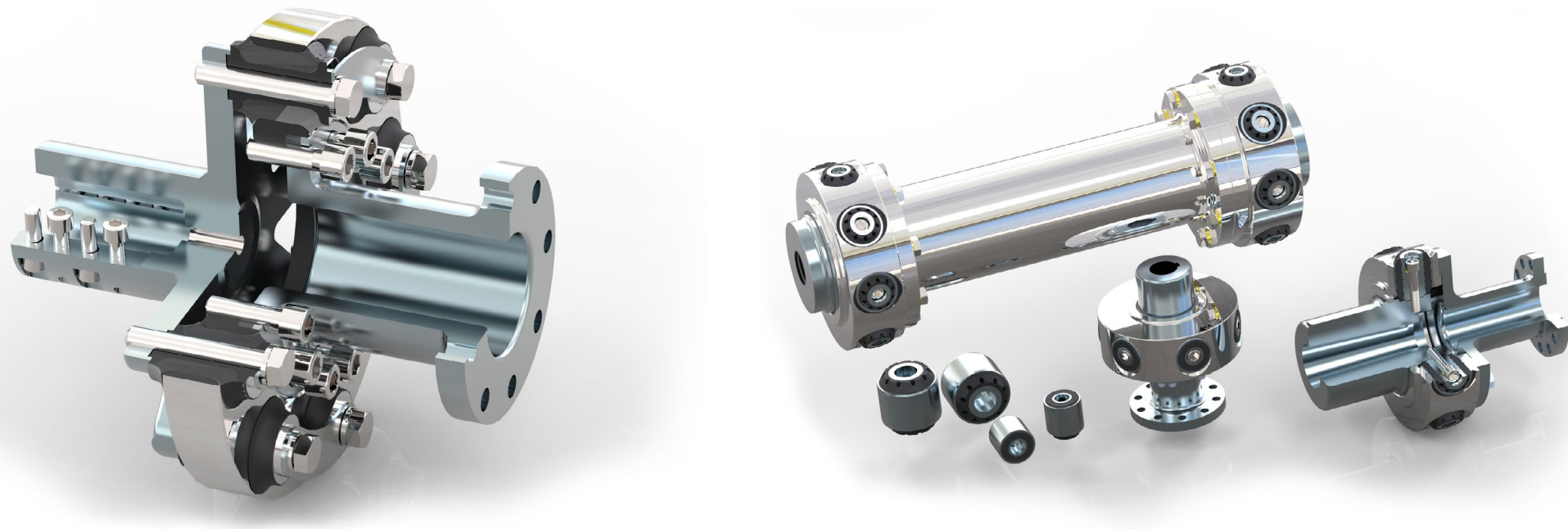
Poseidon has a serie of thrust blocks: Heracles and Orion series. These thrust blocks makes that the propeller thrust does not has to be absorb by the gearbox/engine mounts. This creates a quieter and smoother propulsion system.

These units are available from 10 up to 3000 kW application. They are always used in combination with flexible couplings or plunging joints.

VESSEL	: 80 MTRS SUPERYACHT
PRODUCT	: STERNGEAR AND RUDDERS (INCL THRUSTBLOCK ORION 180)
SHIPYARD	: BILGIN SHIPYARDS ISTANBUL TURKEY
CLASSIFICATION	: AMERICAN BUREAU OF SHIPPING



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ORION FLEXIBLE COUPLING

Poseidon has a serie of flexible couplings: Poseidon and Orion series.
 These couplings make that the propeller shaft is mounted flexible on gearbox/engine units while passing on thrust.
 It creates a smoother ride.

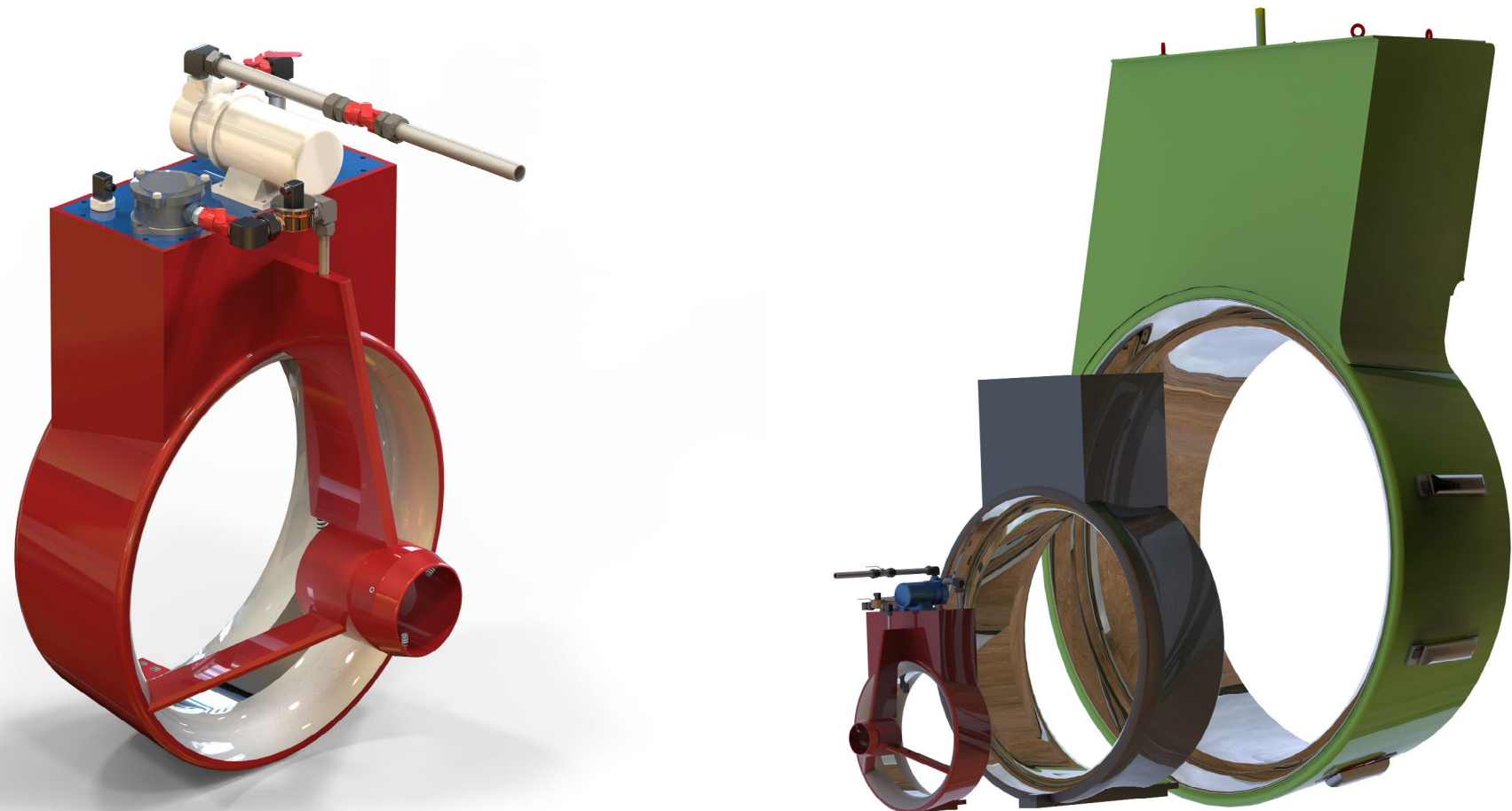
Alternatively when a thrustblock is used these couplings does not has to be absorb by the thrust. This creates an even quieter and smoother propulsion system.

These units are available from 10 up to 3000 kW applications



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VESSEL	: PATRIOT
PRODUCT	: ORION FLEXIBLE COUPLINGS
SHIPYARD	: SHIPYARD BRAVEHEART MARINE
CLASSIFICATION	: BUREAU VERITAS



FIXED & STEERABLE NOZZLES

Poseidon has a serie of steel and polyurethane nozzles for yachts and commercial vessels. Depending on the vessel, installed power, vessel displacement and application, Poseidon will recommend the correct type of nozzle.

The most important results and reasons to use a nozzle are:

- Up to 50% fuel savings and CO2 reduction
- Up to 15 dB noise reductions
- Up to 15% speed increase.

Poseidon offers you 3 types of nozzles: a fixed, steerable and a rudder version. Our nozzles can be used for a wide variety of vessels

VESSEL	: QUATTRO
PRODUCT	: FIXED NOZZLES
SHIPYARD/OWNER	: PARABEL SA
CLASSIFICATION	: LLOYDS



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POSEIDON RUDDERS

For any vessel Poseidon can design and supply rudders. We manufacture these rudders in any material suiting the vessel and requirements. With going hydraulic systems can be arranged to. These can be connected to any autopilot and integrated in any Dynamic Positioning System.

Fishtail rudders:

These fishtail rudders are developed to be used in combination with the fixed nozzle. They can also be used with great success as a rudder in combination with an open propeller. The rudder shaft is standard build with a fixed rudder shaft but it can also be made with a flange.

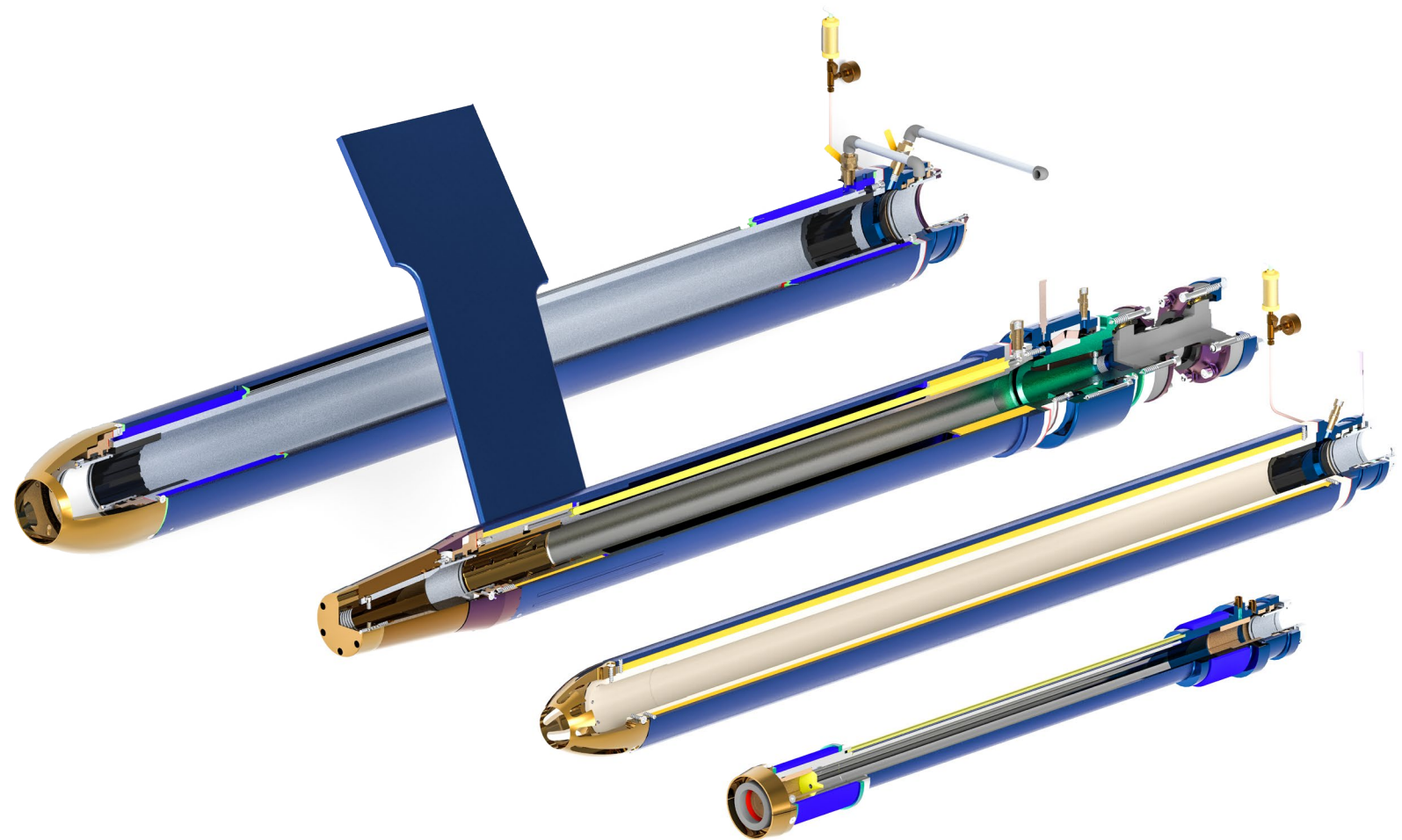
Rudder tubes :

To facilitate all the Poseidon steerable nozzles and the fishtail rudders, we have standardized the range of rudder tubes. These are available in steel, aluminium and GRP. The steel tube can be manufactured as a weldable installation. Standard they are designed to be cast in an outer tube with an epoxy resin. The tiller arm connection with the shaft is designed as a clamping device. This means that the position can always be adjusted and the standard rudderstock or fishtail rudder does not require any final machining.

VESSEL	: KARINA
PRODUCT	: CUSTOM MADE POSEIDON RUDDERS AND STERN GEAR
SHIPYARD	: DE HOOP LOBITH
CLASSIFICATION	: DNV-GL



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STERN TUBES

Each specific vessel requires its own stern tube arrangement. These vary per application, type of vessel and builders requirement.

Poseidon has a range of possibilities to meet any requirement such as:

- Open water lubricated stern tube systems
- Closed water lubricated tube systems
- Closed grease lubricated, Closed so the environment is NOT harmed
- Oil lubricated stern gear
- Oil lubricated stern gear with an integrated thrust bearing

The units are completed with the required accessories such as lubrication systems, temp sensors, filters, pumps, alarm, cathodic protection, flair caps etc.

VESSEL	: MS XENIA
PRODUCT	: OIL LUBRICATED STERNGEAR
CLASSIFICATION	: RINA



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DriveteQ machinefabriek is a sister company of Poseidon.

Most of the required parts for the Poseidon products are manufactured here.

DriveteQ is using most modern CNC machines and ditto software like Hypermill to machine the most advanced parts.

By using these techniques, products like thruster gearbox parts and propellers are manufactured.

Also for other industries DriveteQ manufacture most exclusive and complex machined parts.

They are specialized in aluminium parts.

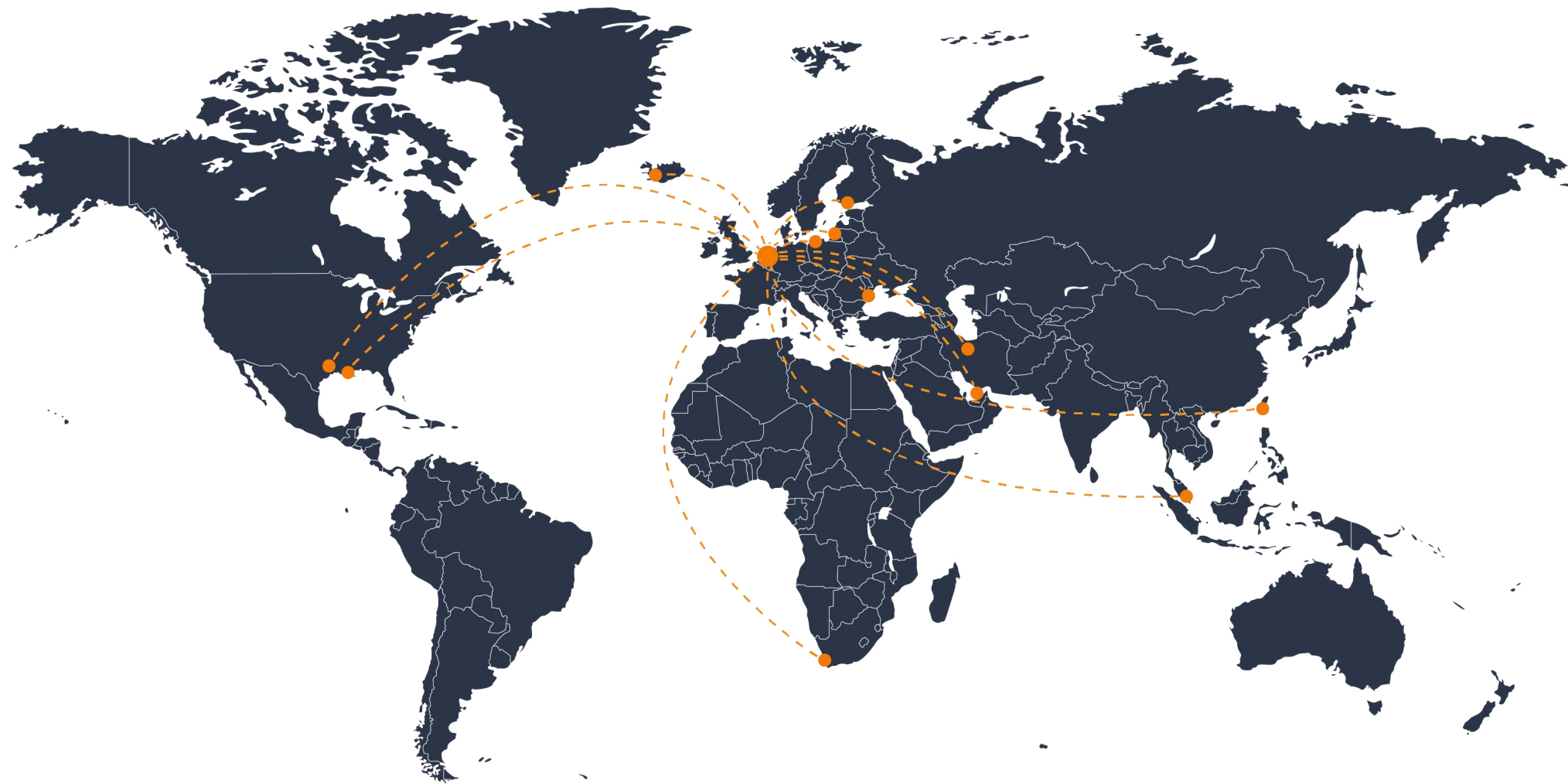


Another sister company of Poseidon and DriveteQ Machinefabriek is DriveteQ Cardanshaft Service.

This is one of the leading companies in the drive shaft industry. Due to the cooperation with the drive shaft manufacturers and service companies throughout Europe we can cover almost any need. Supported by our own 3D design office we can offer a solution for each problem. To perform any work on cardanshafts and gears we have a professional equipped workshop with special balancing machines. At DCS we also manufacture an facilitate arrange electric driven vehicles and windmill. Their specialty is to transform existing (antique) cars into E-Driven.

DriveteQ Cardanshafts Services is situated in Duiven, the Netherlands





GO►ON



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MEDIA FABRIEK

SKF

Technoind

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