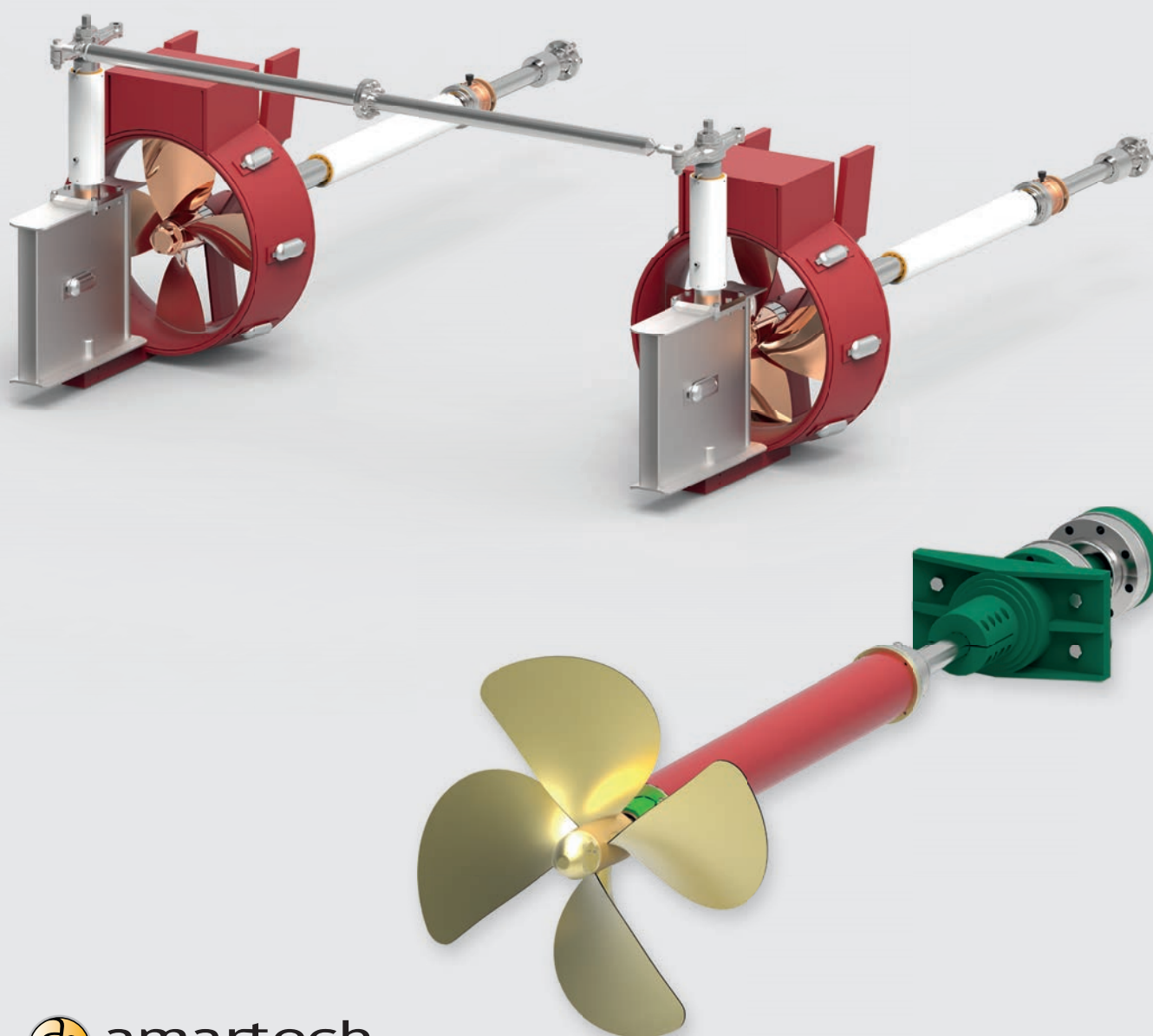


## *Fixed Pitch Propeller System*



**Fixed Pitch Propeller systems**

The fixed pitch propeller system (FPP) will be custom engineered and delivered as a complete package. The systems are water lubricated. Several components have been awarded at the Design Award METS (DAME).



**Custom Designed Propellers**

The high skewed propeller will be custom designed to meet optimum performance. The section and blade-area ratio will be optimized to reach the lowest noise and vibration levels. Propeller blades are machined by CNC machines. Finish tolerance to ISO Class I or S is possible.

**Shaft brackets (optional)**

The shaft bracket (V or P) will be custom designed to meet the hull shape. The brackets can be produced in steel, stainless steel, aluminium or aluminium bronze. The shape of the bracket-profile will be custom designed to guarantee lowest drag.

**Stern tubes**

The EasyStern® sterntube system is specially designed to reduce noise and vibration levels in the hull. The EasyStern® ClampSeal will make the (de-)installation as easy as possible. Glass-in type stern tubes are available for polyester yachts.

**Propeller shafts**

Designed according to the requirements of the classification societies. Both keyed and keyless versions are available. Stainless steel Duplex 1.4462 ground material will be used for most of the shafts.

**AxiSeal® shaft seals**

The AxiSeal® is a dripless propeller shaft seal. Maintenance free during the life-time. A stand-by seal can be mounted for emergency cases.

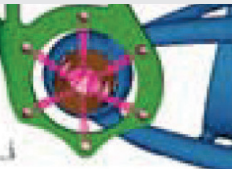


**Thrust bearings and Flexible couplings**

Propeller thrust will be absorbed by a heavy duty thrust bearing. Combined with a homokinetic (CV) shaft (Aquadrive) or a soft flexible coupling, and by mounting the engine on soft engine mounts, optimal isolation of noise and vibration can be achieved. A flexible coupling without a thrust bearing is a possible solution as well. In this case the isolation of noise and vibration is less. The final choice depends on the requirements of yacht-owner and available budget.

**Calculations**

- › Shaft-alignment, Gap and Sac calculation
- › Lateral vibration analyses
- › Axial vibration analyses
- › Torsional vibration analyses
- › Other Finite Element calculations



**Advantages of Amartech FPP:**

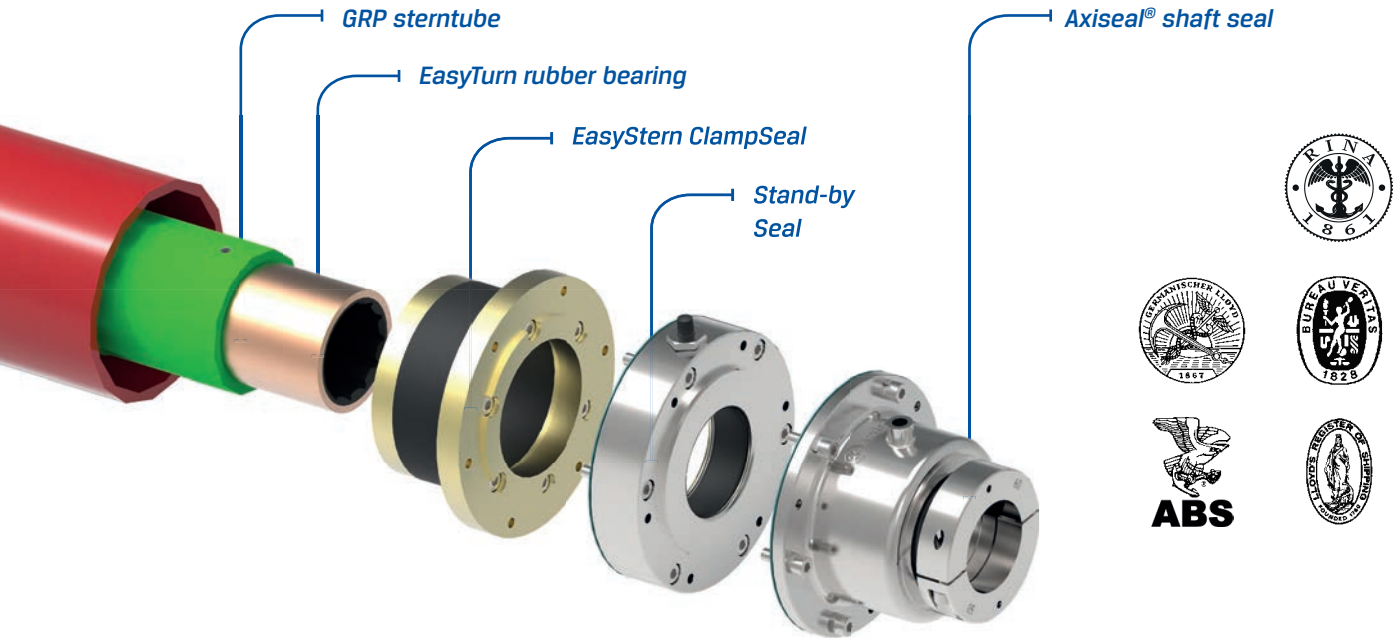
- › Fully custom engineered
- › Complete design and delivery
- › High performance
- › Low noise and vibration levels



Pacific prestige 200



Bystander



**Amartech Rudder systems**

Weld-in with Fish-tail rudder



**Amartech Rudder systems**

Chockfast mounted rudder system



**Amartech Rudder systems**

EasyStern with NACA-profile rudder







### **Blokland Non Ferro bv**

*Blokland Non Ferro is a Dutch family business, founded in 1962 and active on the global marine market. The company specializes in designing, producing and supplying complete propulsion- and rudder systems for yachts and small commercial vessels as well as box coolers and heat exchangers for inland- and commercial vessels and industrial applications.*

*With extended possibilities for design and production of our products we offer you an attractive combination of superior know-how, experience and production possibilities.*

### **We offer two kind of propulsion systems:**

- › Fixed pitch propeller system
- › Retractable propeller system

*With numerous national and international references Blokland Non Ferro has built a reputation of a highly*

*dependable quality player. We provide shipyard and naval architects around the world with our solutions. For (small) yachts as well as megayachts (both motor- and sailing yachts). Blokland Non Ferro also produces technical propulsion components and holds a comprehensive stock so that customers can be serviced promptly.*

### **Blokland Non Ferro offers you the following services:**

- › Standard and custom designed propulsion- and rudder systems
- › Design and supply of box coolers and heat exchangers
- › Sales and distribution of technical marine equipment

*Blokland Non Ferro is committed to offer quality solutions and products only. Comfort and noise reduction are basic elements in our process of engineering.*

*Blokland Non Ferro operates worldwide from its premises in Sliedrecht, The Netherlands.*



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