



HELSETH

Creating Efficiency

Kumera Helseth

Marine Division of Kumera Corporation



Helseth Propulsion Systems
Kumera Marine Transmissions



KUMERA

Kumera Helseth – Integrated Propulsion System

Kumera Helseth has an excellent know-how on the integrated propulsion systems for any seafaring vessels. Our expertise includes each individual aspect of the system. In-house manufacturing of propulsion gearboxes, propellers and control systems enables a reliable and efficient operating system for marine industry.

Kumera Helseth – Integrated Propulsion System

- Efficient propulsion systems
- For small and medium sized vessels: cargo, passenger, ferries, tankers, work boats, high-speed and fishing vessels, offshore supply vessels
- Adjustable pitch and controllable pitch propellers, dia upto 4400 mm
- Engine power upto 4500 kW
- Shaft and stern tubes including supply

Standard features of the propulsion gearbox

- Two-speed capability, i.e. switching between two ratios
- Two-step capability, i.e. high ratios (> 6:1)
- High number of integrated PTOs/PTIs on each gearbox
- Customized high torque/power PTOs/PTIs
- Integrated hybrid capability
- Tailored and standard gearboxes including original spare parts

Optional features of the propulsion gearbox

- Two-speed capability, i.e. switching between two ratios
- Two-step capability, i.e. high ratios (> 6:1) two-speed, i.e. to transmission ratios
- OD-box for propeller pitch operations
- Condition monitoring system
- Shaft brake

Benefits

- High efficiency – Minimizing power loss and saving energy
- Modular structure – The ability of adding additional equipment and variety of mounting arrangements
- Several gearbox sizes and wide range of ratios – optimal gearbox size available
- Flexible product structure – easy to customize for the actual requirements

After Sales Services

- Start-up and installation services
- Maintenance services
- Regular inspection visits
- Maintenance consulting services
- Original spare parts
- 24/7 on-call service



Kumera Marine Transmissions

Kumera AS, Sandefjord, Norway has been a major manufacturer of marine transmissions throughout decades. Long traditions and extensive experience in designing and producing demanding marine gearboxes in propulsion systems as well as auxiliary drives.

Kumera Marine Transmission gearboxes include:

- Step-up and Reduction Gear Units
- Multishaft PTO Gear Units
- Right Angle Gear Units
- Propulsion Gear Units
- Hydraulic Clutch Units
- Integrated Power Transmission Systems

All gear units are manufactured according to the standards of leading international classification societies.

In addition to our sales activities we provide gear maintenance and repair services worldwide.



Comprehensive range of marine transmissions



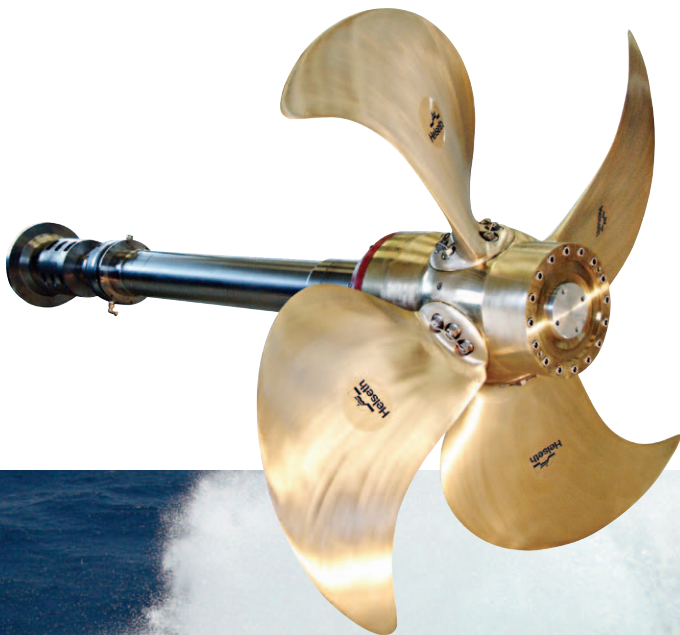
Propulsion Systems – Helseth AS

Helseth AS is a highly specialized propeller manufacturer, operating in modern facilities in Molde, Norway. Since the first Helseth system was installed in a fishing boat many decades ago, the company has gained a profound knowledge of how to produce efficient propulsion systems. Today we serve a wide variety of small and medium-sized professional vessels such as cargo and passenger vessels, ferries, tankers, work boats, high-speed vessels, fishing and offshore vessels.

Learning from tough conditions

The Atlantic Ocean has challenged and inspired us for almost a century. The maritime corporate culture on the weathered coast of north-western Norway has always been based on moderation and the ability to continuous improvements of our propellers.

We have attained unique competence in the machining and development of propeller systems, and today we are a solid niche producer at home and abroad. We manufacture our products primarily through a staff of updated and experienced professionals. Innovation, quality awareness and flexibility have contributed to making our company one of the market leaders in our field.



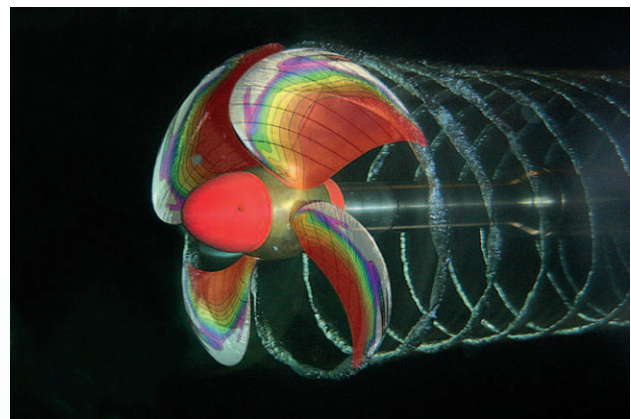
Focusing on Latest Blade Technology

Focusing on latest technology has led to increased competitive ability and strength to our objective of being best on design, quality and delivery.

With century of experience in the maritime industry we are established as one of the leading manufacturers of controllable pitch propellers. This experience combined with the use of high end sophisticated programs enable our engineers and designers to meet the highest requirements and to find the optimum tailor-made propellers for the customer.

We are continuously participating in R&D-projects to ensure that our staff is always among the leading engineers having the best designing and manufacturing tools available.

3D and 2D CAD tools are used for design and modeling of our propeller systems, combined with high end FEM and hydrodynamic software. The three-dimensional visualization and animation capabilities in the CAD programs facilitate the design process and eliminate any failures in supplied systems.



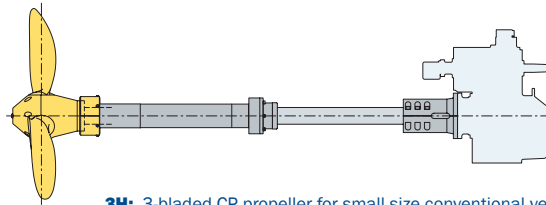
Helseth Propeller Systems

Helseth product portfolio is made up of 3- and 4-bladed propellers designed with the help of modern tailor-made computer programs, and manufactured in high quality materials.

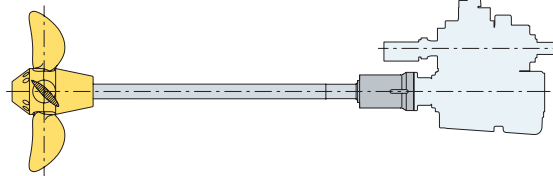
All propeller blades are tailor-made for each vessel and designed by the use of modern design software and experienced designers to fit the vessel perfectly.

The propeller hub and pitch-control mechanisms are designed by use of extensive FEM-analysis tools to ensure low weights and sufficient strengths to survive the most hazardous environments.

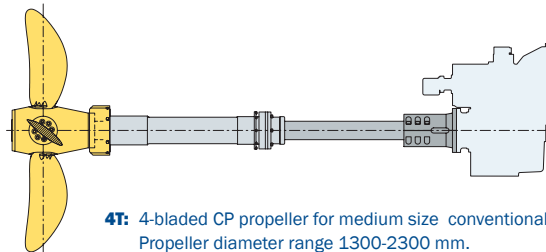
At Helseth we have a daily based contact with all the important class societies to ensure the best result for our customers.



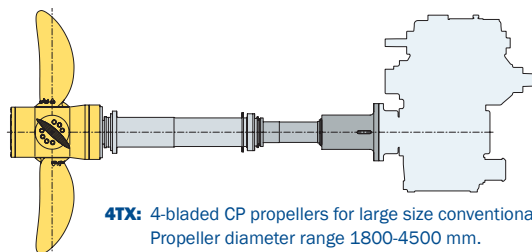
3H: 3-bladed CP propeller for small size conventional vessel.
Propeller diameter range 500-2300 mm.



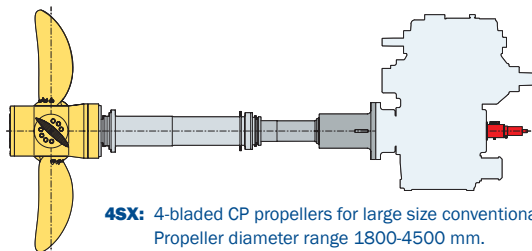
4H: 4-bladed CP propeller for small size conventional vessels and high speed vessels.
Propeller diameter range 700-1700 mm.



4T: 4-bladed CP propeller for medium size conventional vessels and high speed vessels.
Propeller diameter range 1300-2300 mm.



4TX: 4-bladed CP propellers for large size conventional vessels (and gearbox with built-in servo for pitch control).
Propeller diameter range 1800-4500 mm.



4SX: 4-bladed CP propellers for large size conventional vessels (incl. OD-box mounted to gearbox for pitch control).
Propeller diameter range 1800-4500 mm.



HIGH SPEED PROPULSION SYSTEMS

For High Speed Vessels – normally operating above 25 knots speed – hydrodynamics becomes much more important for the optimization of the propulsion solution. In addition to the propeller design also design of brackets, rudders and propeller tunnel has to be optimized. Due to interaction with the hull design, we work closely with vessel designer on most high speed application to ensure the most efficient solution.

Repair and Maintenance

Kumera Gearbox Repair, Retrofit, Upgrade and Service

Kumera Power Transmission Group has effective and global Kumera Service Center Network, which include manufacturing facilities to carry out gear technological tasks. Therefore Kumera Service Center handles practically all brands of marine gearboxes. This includes repair, trouble shooting, if not obvious, and analysis of causes, until finding the root cause. Normally all brands can be highly upgraded since structure changes in bearing arrangement and lubrication systems are often possible to be included. In addition to that there is possibility to provide the gearbox with cooling system to allow higher loading and torque.

Kumera Service Concept for Marine Gearbox Repair

The Kumera Service Concept covers not only all conventional measures but also regular visit on-board and remote control through Kumera Guard Gear Maintenance System so that inspection and related reporting is well taken care of.

Kumera Service has the most effective spare parts ordering system which is under Kumera Power-Plaza (www.power-plaza.com). The service enables the customer to pick up right spare part from Bill of Materials by giving only the identification number of the specific gearbox.

The spare parts of standard gearboxes are normally kept on stock for immediate delivery.

The shipment of spare parts or components will take place from stock or as quickly as it is possible in each single case.

Kumera After Sales takes care of its power transmissions with high responsibility and professional way in all its manufacturing plants and Kumera Service Center Network.



Kumera Service provides world-wide repair, service and maintenance for marine gearboxes for all brands and manufacturers.

- Our service minded team provides you with parts, engineering skills and technical advice
- Being part of your preventative maintenance ensuring optimal operation of the gears by regular inspections and planned service
- Serving a wide range of industries world-wide
- Having a well-stocked spare-parts department of original parts. Utilising air-freight from our nearby feeder airport to ensure fast deliveries to any location in the world

Our services include

- Emergency repairs world-wide
- Service contracts
- Condition analysis/monitoring and preventive maintenance by help of endoscopy, vibration analysis and thermography.
- Laser alignment
- Overhauls
- Modernizations and replacements
- Assembly of gear services
- Design and development
- Training
- Consulting services

BENEFITS OF THE KUMERA SERVICE CONCEPT FOR MARINE GEARBOX REPAIR

- Kumera Corporation has over many decades of experience in manufacturing, servicing and repairing of marine gearboxes
- Global service network for marine gearbox repair to deliver high-quality services promptly
- Availability to repair and service all types of marine gearboxes regardless of manufacturer
- Manufacturing of special and customized spare part
- High-quality manufacturing processes for geared parts
- Qualified team of experts and consulting helpline at your service 24/7

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Global Sales and Service

For decades, Kumera has been known as a global leader in industrial and marine gear solutions, with hundreds of thousands of Kumera gear units installed at customer locations around the world. Our global network of service providers brings local support for your gear unit through consultation, installation, training, replacements, spare parts, condition monitoring and overhauls. Contact a Kumera sales or service representative to learn more.

NEW GEARBOXES SALES AGENTS

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