



# Steerprop

**AZIMUTH PROPULSION**



## Steerprop Ltd

Steerprop Ltd. is centre of azimuth propulsion technology. Situated in Rauma, Finland it provides Steerprop Azimuth Propulsors for the global maritime market.

## Steerprop Team Steerprop Azimuth Propulsion

The Steerprop Team is a global organization that develops, designs, markets, sells and services Steerprop Azimuth Propulsors. The objective of the team is to provide vessel operators with know-how, equipment and service - all customized according to their individual needs.

Having already essentially contributed to the growing success of the azimuth propulsion technology, Steerprop Team is well equipped to accomplish its objective.

### Design

Steerprop stands for a new generation of azimuth propulsors. Potential customers, naval architects and the global team members provided a significant amount of data as input for the development process. The information gathered form the basis of the design criteria.

### Basic Philosophy

To achieve an outstanding lifetime economy, the design and construction of the Steerprop Azimuth Propulsors are based on the following principal criteria: reliability, performance, flexibility and environment.



### Reliability

3-D modelling technique, elaborate FEM-analysis and careful component selection are some of the means to design for reliability.

The ease of preventive maintenance and test sampling, diagnostics, condition monitoring, and the latest bus and PLC technology used in the control system are all factors of improved dependability.

The vessel operation is enhanced by the means of the latest development in human engineering and ergonomics used in the design of the controls and wheelhouse layout - the main purpose being a user-friendly environment for the vessel master.

### Performance

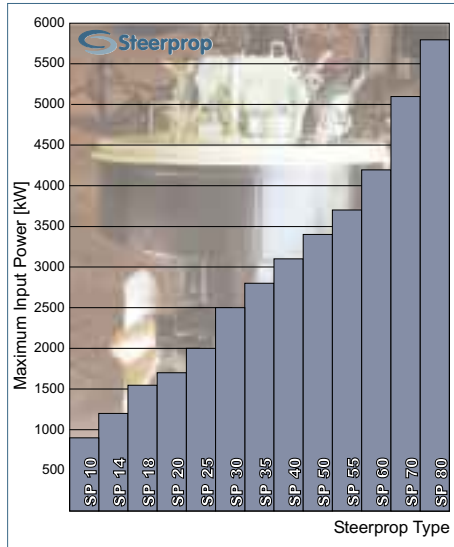
Steerprop Azimuth Propulsors are available with both ducted and contra-rotating propellers for a wide range of operation requirements.

The nozzle of the ducted propeller is the new high performance Steerprop HJ3 nozzle. It provides an increase in bollard pull of 8 ...10% and in high-speed efficiency of approximately 15%, compared to the traditional 19A nozzle.

Contra-Rotating Propeller (CRP) with dual end configuration together with a sophisticated hydrodynamic design of the underwater parts, gives improved thrust at normal operation speeds.

### Environment

Steerprop Azimuth Propulsors have the latest seal technology. Any leak in the propulsor is controlled and will not contaminate the environment.



### Flexibility

Steerprop offers a great deal of flexibility not only by the propulsors themselves, but also the support offered by the small and adaptable organization.

### Power Range

The Steerprop Azimuth Propulsors are mechanical, comprising a pair of bevel gears. The prime mover - either diesel or electric - is installed in the vessel itself. The Steerprop power range is optimised to correspond to the market demand and to suit a variety of vessels, applications and operational profiles.

### Production

Steerprop Ltd. combines forces only with merited and skilled engineering companies with facilities, machine tools, quality assurance and constancy of operation that comply with the stringent requirements of marine and offshore industries. Steerprop Ltd. participates in the supervision and material procurement.

The production is based on readily available parts and components, as far as possible, to ensure easily accessible spare parts and service all over the world.



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P.O. Box 217 Phone +358 2 8387 7900  
 FIN-26101 RAUMA Fax +358 2 8387 7910  
 Finland e-mail [steerprop@steerprop.com](mailto:steerprop@steerprop.com)

[www.steerprop.com](http://www.steerprop.com)