



STEERPROP



**PROPELLED  
BY NATURE,  
STEERED BY  
THE MIND OF MAN**



# SHAPING THE WORLD OF MARINE TO BE

Steerprop builds the finest azimuth propulsors in the world, sustainably designed to support the growing tide to save the seas. Combining efficiency with ecology, our designers have begun a green revolution in the maritime industry – not just to save fuel and improve operational performance, but also to shape the future world of marine.

Our dedication and experience are matched only by our expertise – and our passion for partnership.

Let us tell you more about who we are, why our technology is unique – and how our technology can bring you continuous value.

*We build  
the world's finest  
azimuth propulsors,  
combining efficiency  
with ecology.*

## CORNERSTONES OF OUR SUCCESS:

### **Performance**

Power, durability and economy

### **Environment**

Sustainability in our designs, methods and products

### **Reliability**

Sustained excellence for ultimate lifecycle and safety

### **Flexibility**

Exactly the products and services you require





# APPLICATIONS

## ARCTIC

Dependability is especially critical in harsh arctic environments. That's why we build redundancy into every ARC azimuth propulsor. And with their robust mechanical transmission, reliability is built in. They also excel in ice-management operations. Ice milling is frequently used. Controlling vectored thrust – slipstream – over 360° enables ships to open and widen channels, to blow ice ridges and free arctic offshore installations from ice pressure.



## OFFSHORE

Our propulsors adapt to specific needs, ensuring efficient and economical operation. We also offer various control systems. When bollard pull is your main focus, a ducted propulsor with a high-performance Steerprop HJ3 or HJ4 nozzle is your best choice. This increases pull and improves high-speed efficiency compared to a traditional nozzle. When free-running efficiency is crucial, look to our contra-rotating propulsors (CRP).



## TUGS AND WORKBOATS

Endurance, reliability and agility are essential for workboat propulsion. We meet these challenges with our specialized designs and world-leading expertise. Our ducted propulsors have proven their quality worldwide for over a decade. The latest generation raises efficiency and robustness even higher, offering lighter-weight construction with hydrodynamic enhancements for superior bollard pull and high free-running efficiency. Optionally, CRP is the right choice for transit and ice conditions.



## FERRIES

In the increasingly competitive and green-leaning ferry market, maximizing propulsive efficiency is crucial. That's why our CRP technology is designed for lifelong economy, with reduced energy consumption and emissions. Superb hydrodynamic design with minimal propulsor cavitation enables low noise and vibrations levels, both on board and underwater. CRP propulsors also offer excellent reliability and serviceability, with extended intervals between overhauls.



## CRUISE SHIPS

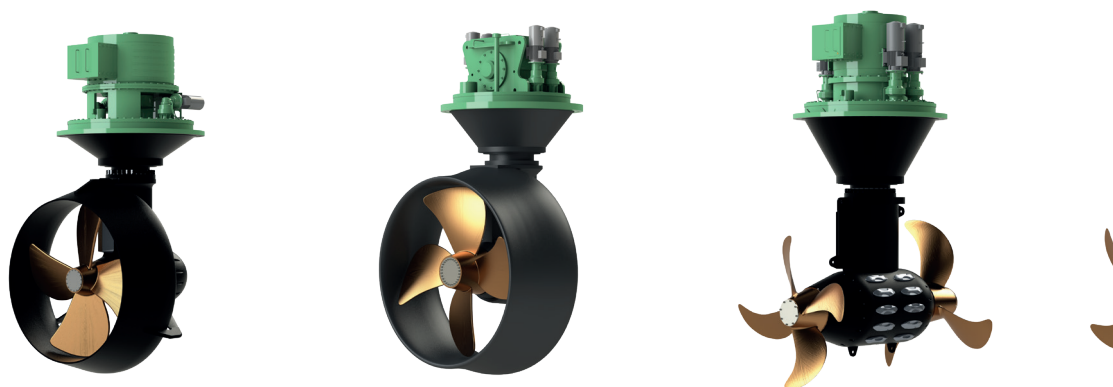
Our propulsion systems offer cruise ships unsurpassed efficiency and the ability to operate in strictly regulated environments. Noise and vibration levels are extremely low, adding to the comfort and enjoyment of passengers. In addition, each propulsor features excellent maneuverability with its advanced azimuth design. Each vessel can take advantage of the high fuel savings and low emissions that the propulsion system provides, maximizing productivity and reducing its footprint.



# PRODUCTS

All Steerprop propulsors match each application and built up to 12 MW for ice classes or 15 MW for open water. All major classification society certificates are available.

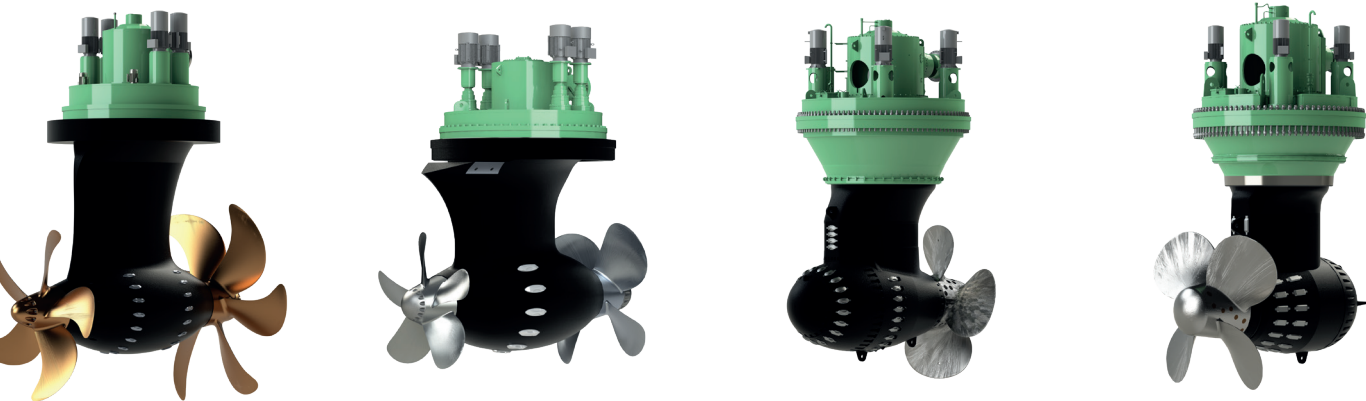
We offer several mounting options: through hull from above, in two parts or from below.



	SP 10-45	SP 50-80	SP 10-45 CRP	
<b>Power range [kW]</b>	900-3500	4000-7000	900-3500	
<b>Propellers available</b>	Open and ducted			Con
<b>Configuration</b>				
<b>Prime mover</b>	Electric motor or diesel engine	Electric motor	Electric motor or diesel engine (with restrictions)	
<b>Integrated permanent magnet motor</b>				
<b>Steering type</b>				
<b>Typical application</b>	Tugs, workboats and offshore vessels. High bollard pull with nozzle		Offshore, cargo, passenger and High efficiency/speed	
<b>Ice class</b>	Light and medium ice classes available			



Steerprop propulsors offer unsurpassed propulsive efficiency and reliability, even in the most demanding operating conditions. Our latest innovations include a new generation of ducted propulsors, with a shallow draft version for confined spaces, and the SP CRP and CRP ECO LM propulsors with a permanent magnet (PM) motor integrated with the propulsor.



SP CRP ECO	SP CRP ECO ARC	SP PULL	SP ARC
5000–15 000	Up to 12 000 (depending on ice class and application requirements)		
contra-rotating propellers		Open pulling	Open and ducted
Z-drive or L-drive			
Electric motor			
Available			
Electric as standard. Hydraulic as an option			
and research vessels. ed, low noise	Ice-going vessels and icebreakers		
Heavy ice class available			



# SELECTED REFERENCES

## Arctic

Baltika with one-of-a-kind ARC104 design to break ice sideways



**BALTIKA – OBLIQUE ICEBREAKER**

Classification	RMRS Icebreaker 6
Power per unit	2500 kW
Built by	Arctech Helsinki Shipyard Oy
Shipyard	Yantar JSC
Main propulsion	3 x SP 60 PULL

## Passenger

Celebrity Flora



**CELEBRITY FLORA – EXPEDITION MEGA YACHT**

Classification	LR 100A1 Passenger Ship
Power per unit	1250 kW
Built by	Shipyard De Hoop
Owner	Celebrity Cruises
Main propulsion	2 x SP 20 CRP

## Offshore

Seven Viking – PSV offshore vessel  
Ship of the year in 2013



**SEVEN VIKING – IMR VESSEL**

Classification	DNV 1A1 Offshore service vessel
Power per unit	3000 kW
Built by	Ulstein Verft AS
Owners	Subsea 7 and Eidesvik AS
Main propulsion	3 x SP 35 CRP

## Workboat

Workboat Red Fox (Romulo) escort tug



**RED FOX (ROMULO) ESCORT TUG**

Classification	GL 100A5 Active escort tug
Power per unit	2380 kW
Built by	Astilleros Balenciaga S.A.
Main propulsion	2 x SP 35 D



# 24/7 ON-CALL SERVICE

We back up our azimuth propulsors with world-class service, available to support you anywhere, at all times.

We deliver this through our Steerprop 24/7 On-Call Service, which works in cooperation with trusted international partners to ensure rapid response times, quick resolutions and global availability.

Reliability and ease of maintenance are inherent in the Steerprop azimuth propulsors. Proper maintenance and correct operational procedures are still important for safe, efficient operation. That's why Steerprop provides on-request training for your staff.



**STEERPROP**  
CARE

## **Steerprop Care condition monitoring service**

Steerprop Care, our condition monitoring system, consists of equipment containing the latest industry technology.

This enables us to accurately interpret the condition of the propulsion unit and its components. It also allows crewmembers to follow machinery trends and detect deviations in advance that could affect the propulsion system. This offers shipowners and crew the highest possible reliability, based on enhanced predictability, safety and productivity. By taking a proactive approach, costly breakdowns can be avoided.

To match your various requirements for condition monitoring, Steerprop offers three predefined levels of Steerprop Care: Standalone, Plus and Premium.



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