



# Side-Power SuperYacht Products 2010

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SIDE-POWER





Side-Power  
by Sleipner Motor

**Sleipner**  
since 1908

Side-Power is the product group brand name for Sleipner Motor, a Norwegian company that has been manufacturing marine products for over 100 years. While the first 75 years was limited to supplying propulsion and steering products to the Scandinavian markets, Sleipner have over the last 25 years become not only a strong, but the leading supplier of thruster systems globally to pleasure craft and commercial vessels up to about 30m.

The reasons for the Side-Power success is a mixture of all factors that makes customers choose one brand or product over another, but there are some areas that we focus on and have entrenched as core philosophies in the company:

- *No compromise on product reliability or safety.*
- *Product features and functionality must have practical benefits and provide value for the users in their daily boating.*
- *Invest in development and tooling for efficient production so that we can supply products with a quality we are proud of at reasonable prices.*

With most of us being boaters using our own products, working by these values also have strong personal motives.

The list of brands using the Side-Power thruster systems as their standard or preferred choice includes almost all of the leading and famous brands of production yachts. The list of brands using the Side-Power thruster systems as their standard or preferred choice, includes almost all of the leading brands of production yachts. We have worked closely with most of these manufacturers for many years and whilst the sizes of the yachts being built increase, the natural progress for us has been to follow up with larger sizes of thrusters.

Our expansion into manufacturing steering systems and stabilizer systems for larger yachts has also been a natural progression brought on by the satisfaction with our products and support among our existing customers. While these are new products for us on the international market, we have manufactured hydraulic steering systems for 25 years for the Scandinavian market and electronic steering systems for larger yachts and commercial applications for several years having a lot of experience with these technologies. With fin stabilizers having much of the same technological challenges as high-end steering systems and being as involved as they are with the hydraulic systems we supply for the larger thrusters, we have been able to draw on extensive experience when developing these products.

By integrating the technologies in these product groups, we are able to design and supply more complete systems with benefits for both the yards by efficient production as well as the owners and operators in both use and service of the yachts. Focused around control, comfort and safety, Side-Power is one of the strongest and most complete brands in this segment today - bringing you

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## SIDE-POWER Thruster Systems

The leading position of Side-Power thrusters is a clear result of focus on the products performance, functionality and reliability.

For many years Side-Power has been the brand that others are trying to copy, but through extensive investments in product development, we have remained ahead of the pack.

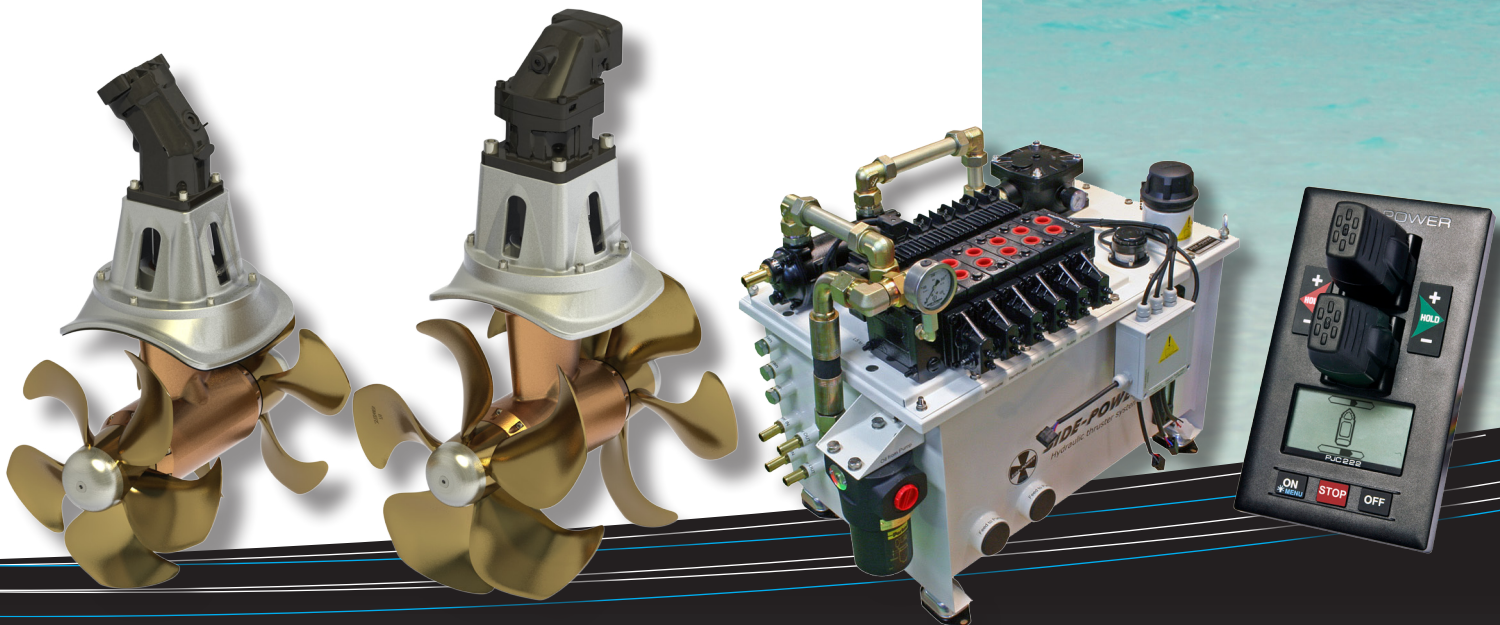
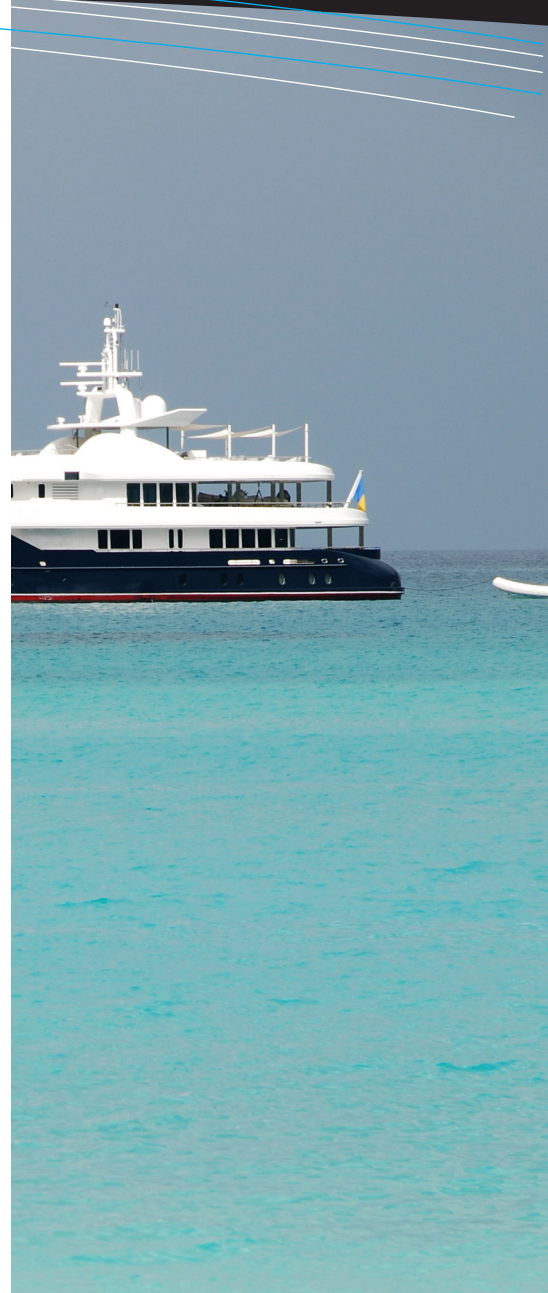
Over the last 9 years we have evolved into the Superyacht and commercial sectors with the SP550 thruster and gained the necessary experience to know how to satisfy these markets. One point that perhaps makes us a little different from many of the traditional suppliers to the superyacht and commercial sectors is that while we develop and manufacture really top class products, we are more efficient than most, especially for the actual quality level. This comes from our experience in making thousands of smaller thrusters a year and the need to be cost efficient to be successful in these markets. We focus a lot on investing in the development of our products, not least to make them efficient to manufacture in volumes.

Many of the leading brands of large yachts use our complete hydraulic systems for their models up to 30m today and these products are getting better and better. To further grow in these market sectors, we are now introducing two larger thruster models:

### SH1000 & SH1400

The SH1000 delivers 1000kg of thrust in a 20 inch tunnel, while the SH1400 delivers 1400 kg of thrust in a 24 inch tunnel. The two new thrusters are fitted with a bronze Q-prop 5-blade propeller, which is highly energy efficient and very silent.

The SH1000/SH1400 is Type Approved by Det Norske Veritas, and will be delivered in two versions, powered either with hydraulic or a AC electric motor. The thruster system is controlled by the S-link control system, benefitting from all advantages of a bus-based digital control system.





## SIDE-POWER Stabilizer Systems

Stabilizer systems have been around for a long time, but typically only used on larger passenger ships and super yachts. However, the dramatically increased comfort and usability of any boat have made owners of also smaller leisure vessels wish for this.

Drawing on the long-time experiences with advanced hydraulic systems, Side-Power have taken the same approach to developing and building stabilizer systems as with the other product groups – focusing on safety and reliability, practical functions and features whilst still planning for efficient production to keep the price at reasonable levels.

From the planning stages throughout the extensive testing on our dedicated testvessel, the major points have been to solve the customers needs in the best possible ways.

Much effort has been taken to ensure that all elements of the system does its job as effective as possible – taking advantage of the latest design and construction methods.

The fins were designed with advanced hydrodynamical software to have top performance with minimal drag, the mechanical design was done with assistance from modern structural analysis systems to be as compact and efficient as possible, and the controller hardware and software benefits from the latest innovations in the industry – all to ensure that the Side-Power Stabilizer System will be able to live up to the high standards known from our other product lines.



SIDE-POWER  
Stabilizer Systems



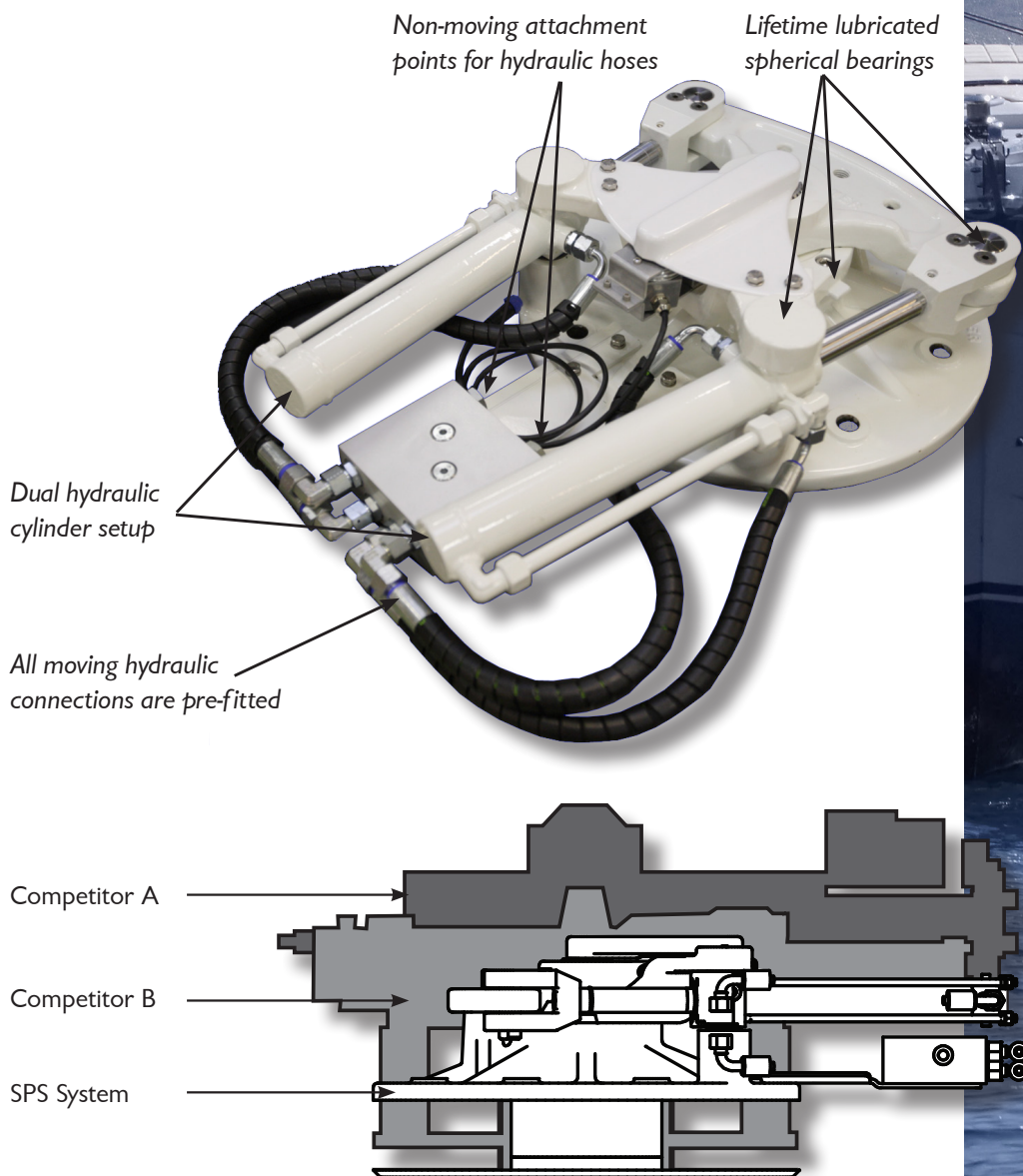
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## Key design elements

- Compact size allows installation in more boats without interfering with internal structures
- Twin cylinders for balanced load
- Auto calibration and setup
- Optimized hydrodynamic fins, 20% less resistance than others.





## SIDE-POWER Steering Systems

In addition to traditional hydraulic steering systems and electro-hydraulic power steering systems, Side-Power has also developed a Superyacht-specific steering system. While designing this, we have been able to draw from almost 100 years of experience with steering systems, and from our extensive knowledge on hydraulic systems.

The Side-Power Superyacht Steering is a RINA-classed system which fills all demands to a commercial grade steering system.

The Superyacht steering control system is a “fly-by-wire” system based around the same S-link bus as the Thruster and Stabilizer systems - the difference is that in the Steering System everything is made with dual configurations, to meet the required redundancy level. This dual configuration extends to the mechanical and hydraulic side of the system as well.

The Superyacht Steering can be operated from a traditional helm or by joystick and the system is ready for autopilot interfacing.



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## Control System Integration with S-link

The thruster systems, stabilizer systems and steering systems from Side-Power shares a common control system - the S-link™ system

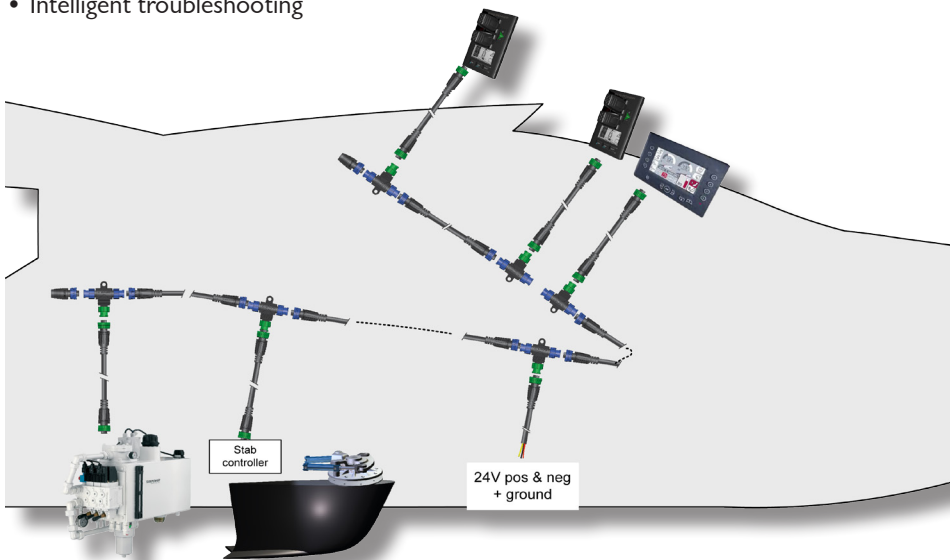
S-link is a "CAN" based control system with full intelligent communication between all units in the system, much like a computer network.

One major benefit with the S-link system is that it is shared between the thruster, stabilizer and steering systems. This is a distinct advantage regarding the control cable installation as well as regarding reliability and security.

A common two-way digital control systems also opens for integration of the systems and system interoperating, and will give enhanced control and a better overview over all system functions.

Main advantages include:

- Round, compact and waterproof plugs with unique keying and color coding to avoid faulty hookup
- Unlimited number of commands or information transfer on a single cable
- User feedback at panel
- Intelligent troubleshooting







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Worldwide sales and service



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