



## Electric Voith Schneider Propeller (eVSP) Sustainable mobility for maritime applications

**With the electric Voith Schneider Propeller (eVSP), we are taking an important step towards the electrification of the drivetrain in marine applications and thus to a shipping industry that is even more eco-friendly. In our capacity as technology partner to our customers, we are actively driving the global mobility transition.**

The eVSP combines all the advantages of the Voith Schneider Propeller (VSP) with the electric motor of the Voith Inline Thruster. The result is a reliable, energy-efficient, environmentally friendly and compact drive unit that is ideal for use in yachts, ferries, tugs, tenders and passenger vessels, and in offshore applications. Like the conventional VSP, the eVSP achieves maximum thrust in all directions, continuously variable and with maximum precision.

The powerful, directly integrated electric motor (permanent magnet motor) delivers high torque and a fast response without any gears whatsoever. This means that it ensures

a more direct and almost loss-free conversion of the electrical drive power into thrust, while keeping noise emissions to a minimum. Due to the low maintenance requirement for the robust electric propeller, the subsequent costs for servicing are drastically reduced.

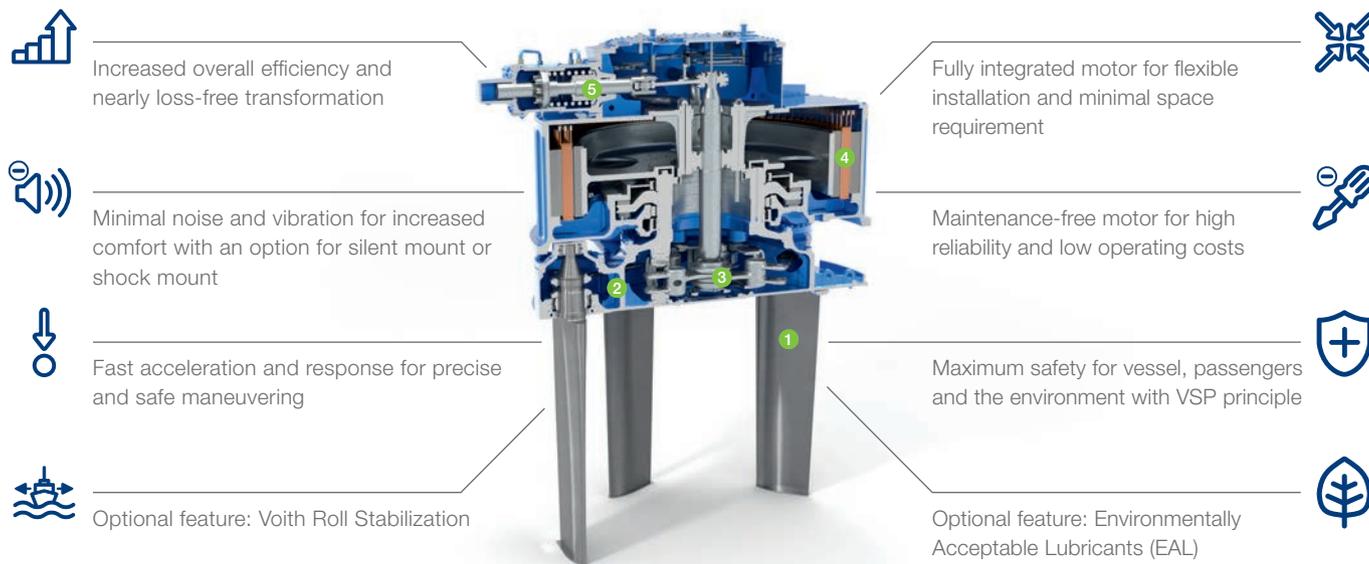
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### Customer benefits and advantages

- + Proven technologies for reliable performance
  - + Efficient electric drive system for maximum effectiveness
  - + Compact design to suit individual requirements
  - + Improved sustainability
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## The electric Voith Schneider Propeller at a glance



## Main components of eVSP

1 Blades 2 Wheel body 3 Kinematics 4 Electric motor 5 Hydraulic cylinder

## Switch with ease to more sustainable technologies

We exploit our long-standing system expertise in the drivetrain to offer shipbuilders and ship owners an easy transition to alternative and more sustainable technologies, without having to compromise on performance, efficiency and safety. Like the mechanical VSP, the eVSP enables extremely fast response to steering commands and thus allows fast and precise maneuvering and positioning even under the most adverse conditions like strong swells.

In addition, its modified oil system means that the eVSP needs a much lower volume of oil and is suitable for the use of bio-oil, which improves the ecological footprint and reduces operating costs. And thanks to its low weight and compact design, the eVSP can also be integrated in a very space-saving way, allowing for greater scope in the design of the engine room.

## Technical specifications

| Propeller type/size | Blade orbit diameter [mm] | Blade length [mm] | Electrical input power [kW] |
|---------------------|---------------------------|-------------------|-----------------------------|
| eVSP 9              | 900                       | 900               | 200                         |
| eVSP 16             | 1600                      | 1200              | 500                         |
| eVSP 21             | 2100                      | 1750              | 1050                        |
| eVSP 26             | 2650                      | 2300              | 1850                        |
| eVSP 32             | 3200                      | 2650              | 2500                        |

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