

## Press Release

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### **Fisheries Research Vessel of Shanghai Ocean University Relies on Voith Schneider Propellers and Roll Stabilization**

The new fisheries research vessel of the Shanghai Ocean University will be a first for Voith in several respects: It is the first fisheries research vessel world-wide to use the proven Voith Schneider Propeller (VSP) propulsion concept. And it is the first offshore order Voith has received from a Chinese customer.

With its two 28R5 ECS/234-2 Voith Schneider Propellers, the research vessel with a length of 81.6 meters and a beam of 14.2 meters reaches a maximum speed of approximately 15 knots. This top speed is ambitious, given the size and engine power of the vessel but was achieved by the Shanghai Research Institute team responsible for the design in close cooperation with Voith.

To begin with, intense model testing was carried out. Voith delivered model propellers from Heidenheim to the Chinese research institute where they were integrated in a scale model. Voith actively supported the comprehensive test stages, thus contributing to vessel hull optimization. Calculations and adaptations of the vessel lines resulted in the required top speed of 15 knots being technically feasible.

The customer was particularly convinced by the precise maneuverability of the research vessel provided by the VSP propulsion concept and the technically sophisticated roll stabilization (VRS). Those responsible at the university made it clear from the very start of the project that the oceanographers who will be on board the vessel are not necessarily experienced seafarers. To ensure a certain degree of comfort, the owner therefore insisted on the intelligent Voith Roll Stabilization which compensates most of the vessel roll via the VSP.

The research vessel equipped with two electric motors with an output of 1,850 kW each will be launched by the Chinese Tianjin Xingang shipyard in summer 2016. Voith will deliver the two VSPs, two shaft couplings, the Roll Stabilization and the entire electronic control system including four control stands in spring 2016.

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The new fisheries research vessel of the Shanghai Ocean University will be equipped with Voith Schneider Propellers



The Voith Schneider Propeller ensures precise maneuvering

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Voith Turbo, a Group Division of Voith GmbH, is a specialist for intelligent drive solutions and systems. Customers from diverse industries such as oil and gas, energy, mining and metal processing, mechanical engineering, ship technology, rail and commercial vehicles rely on advanced technologies from Voith Turbo.

Voith sets the standards in the markets energy, oil & gas, paper, raw materials, and transportation & automotive. Founded in 1867, Voith employs more than 39,000 people, generates €5.3 billion in sales, operates in over 50 countries around the world and is today one of the largest family-owned companies in Europe.

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