YOUR PROPULSION EXPERTS

SCHOTTEL

PROPULSION AND AUTOMATION FOR EFFICIENT FERRIES

FOR SAFE PASSAGE

In many regions, travel routes can be long with many destinations only accessible by water. Ferries play a key role in the transport infrastructure in these areas. Ferry operators offer daily connections to provide people with safe passage or to transport goods. Having reliable equipment is the basis for fulfilling these tasks on schedule.

This is where SCHOTTEL comes in, offering efficient, safe and environmentally friendly propulsion systems. SCHOTTEL Automation Systems and Marine Services can be used to exploit the further potential of individual vessels or even an entire fleet.

+ SAFE TRANSPORT OF PASSENGERS, CREW AND FREIGHT

+ CUTTING EMISSIONS FOR ENVIRONMENTALLY FRIENDLY OPERATIONS

+ RELIABLE MARINE PROPULSION SOLUTIONS

SCHOTTEL IN THE FERRY MARKET

1955	**2.500+**	**CO_2**
First ferry with azimuth thruster	Ferries worldwide with SCHOTTEL propulsion and manoeuvring systems	SRE meets high efficiency requirement

HIGH QUALITY AND RELIABLE PROPULSION

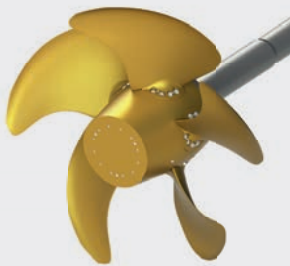## YOUR MAIN PROPULSION OPTIONS

SCHOTTEL EcoPeller
SRE

- Best values in drive efficiency and course stability
- Optimized for open seas and coastal operating conditions
- CP with full-feathering mode: alignment of propeller blades parallel to the flow to minimize drag resistance
- Versatile applications, especially suitable for medium to high speeds
- Exclusive features such as HTG, LeaCon
- Compatible with SCHOTTEL hybrid solutions (SYDRIVE-E and SYDRIVE-M)
- Outstanding comfort as LE-drive: extremely low vibration and noise level
- Various installation options

SCHOTTEL TwinPropeller
STP

- Especially suitable for applications with limited propeller diameter
- Increased level of efficiency
- Reduced noise and vibration levels
- Numerous installation variants
- Minimal maintenance effort, long-term availability of spare parts as OEM
- Exclusive features: SCHOTTEL LeaCon sealing system or DuroVario (optional)

SCHOTTEL ControllablePropeller
SCP

- Maximum thrust at changing speeds and loads
- Reduced noise and vibration levels (particularly with 5-blade version)
- Full-feathering mode (optional)
- Minimal maintenance thanks to its robust design
- Hydrodynamically optimized hub available for fast vessels with high propeller load
- Easy access to hub for less servicing effort
- Complete propulsion package available with comprehensive equipment

SCHOTTEL PumpJet
SPJ

- Azimuth jet thruster
- Installation flush with the vessel's hull, fully protected without projecting parts
- Ideal propulsion system for extreme shallow draught operation
- Maximum thrust with extremely compact design
- Reduced noise level
- Can be used as take-home system
- Features such as LeaCon or HTG (optional)
- SCHOTTEL CoaGrid for even more efficiency (optional)
- Elastic installation version ensuring reduction in noise and vibration levels while enhancing comfort (optional)

🌐 **Click on www.schottel.com for more details**

SOLUTIONS

AUXILIARY PROPULSION

**SCHOTTEL TransverseThruster
STT**
- Maximum thrust
- Compact design
- Less maintenance required due to its robust, high-quality design
- Features such as LeaCon or HTG (optional)
- Well installation for easy access to the propulsion unit (optional)
- Elastic installation version ensuring reduction in noise and vibration levels while enhancing comfort (optional)

Click on www.schottel.com for more details

DOUBLE-ENDED FERRIES

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Battery-Powered RoPax Ferry Husavik 2 x SRE 340 CP (900 kW each)

Shallow Water Ferry Bac 24 4 x SPJ 82 (196 kW each)

LNG-Powered RoPax Ferry Færøy 2 x SRE 560 CP (2700 kW each)

AFTER SALES SERVICE – DURING THE VESSELS LIFETIME

Delivering state-of-the-art propulsion and automation solutions is not enough for us. Thanks to decades of experience in the field of propulsion technology, we are able to offer high-quality services tailored to your individual needs throughout the vessel's service life.
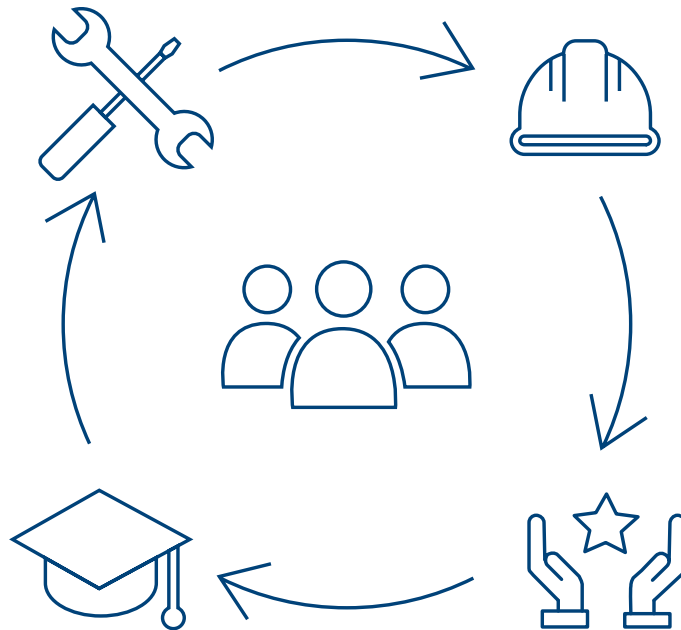
+ SPARE PARTS

- ▶ Fast delivery time thanks to global warehouse logistics
- ▶ Decades of documentation for clear identification of spare parts
- ▶ Production of almost all spare parts
- ▶ OEM warranty
- ▶ Original spare parts with all technical revisions known up to the time of manufacture

+ MAINTENANCE

- ▶ Globally standardized and proven high-quality service levels
- ▶ Preventive and predictive maintenance concepts
- ▶ Remote service support with augmented reality tools
- ▶ Vibration measurement with SCHOTTEL VibCheck
- ▶ More than 140 highly qualified service technicians worldwide

+ TRAINING

- ▶ Customer training courses in local language
- ▶ Courses on site or in one of 4 SCHOTTEL training centers (GER, USA, AUS, SGP)
- ▶ Permanent international knowledge transfer for service technicians

+ UPGRADES

- ▶ Increase of the shipowner's profit

UPGRADE LEVELS:
- ▶ Control systems
- ▶ Thrusters
- ▶ Systems for intelligent operative monitoring

🌐 **Click here for more information**

BEHIND THE SCENES

Since the invention of the rudder propeller in the early 1950s, SCHOTTEL has acquired a wealth of expertise in the development, design and production of state-of-the-art marine propulsion and control systems.

Today, a team of more than 100 engineers develops propulsion systems and digital solutions, which are manufactured to the highest quality standards in our modern production facilities in Germany.

70+ years
Expertise in the development and production of propulsion systems

>10
Product series in our portfolio

50 to 30,000kW
Power range

500+
Propeller designs per year

39,000m²
Production area

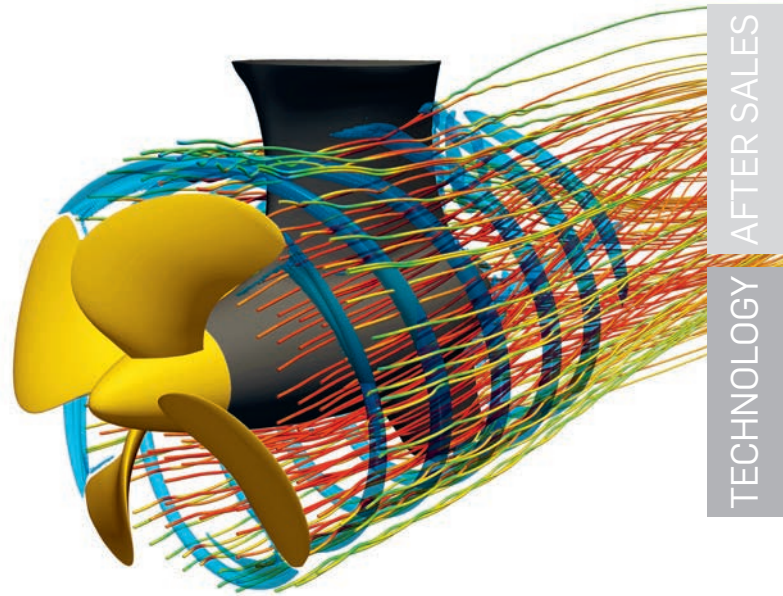# PROPULSION TECHNOLOGY – COMPETENCE IN CUSTOMIZED ENGINEERING

MECHANICAL DESIGN

- Mechanical power transmission
- Structural mechanics
- Hydraulics & pneumatics
- Sealing technology

HYDRODYNAMICS

- Propeller design
- Model testing
- Computational fluid dynamics

ELECTRICAL ENGINEERING

- Automation
- Power electronics
- Assistance systems

+ **GERMAN ENGINEERING**

+ **CUSTOMER-ORIENTED DEVELOPMENT WITH EXPERIENCED IN-HOUSE R&D**

+ **SUSTAINABLE MANUFACTURING FACILITIES FOR STATE-OF-THE-ART PROPULSION SOLUTIONS**

YOUR QUALITY BENEFITS

- Ongoing certification process
- Quality controls during production
- Standardized FAT procedure
- Close dialogue with our suppliers

WE KNOW WHAT MOVES SHIPS

Tugs

Offshore Vessels
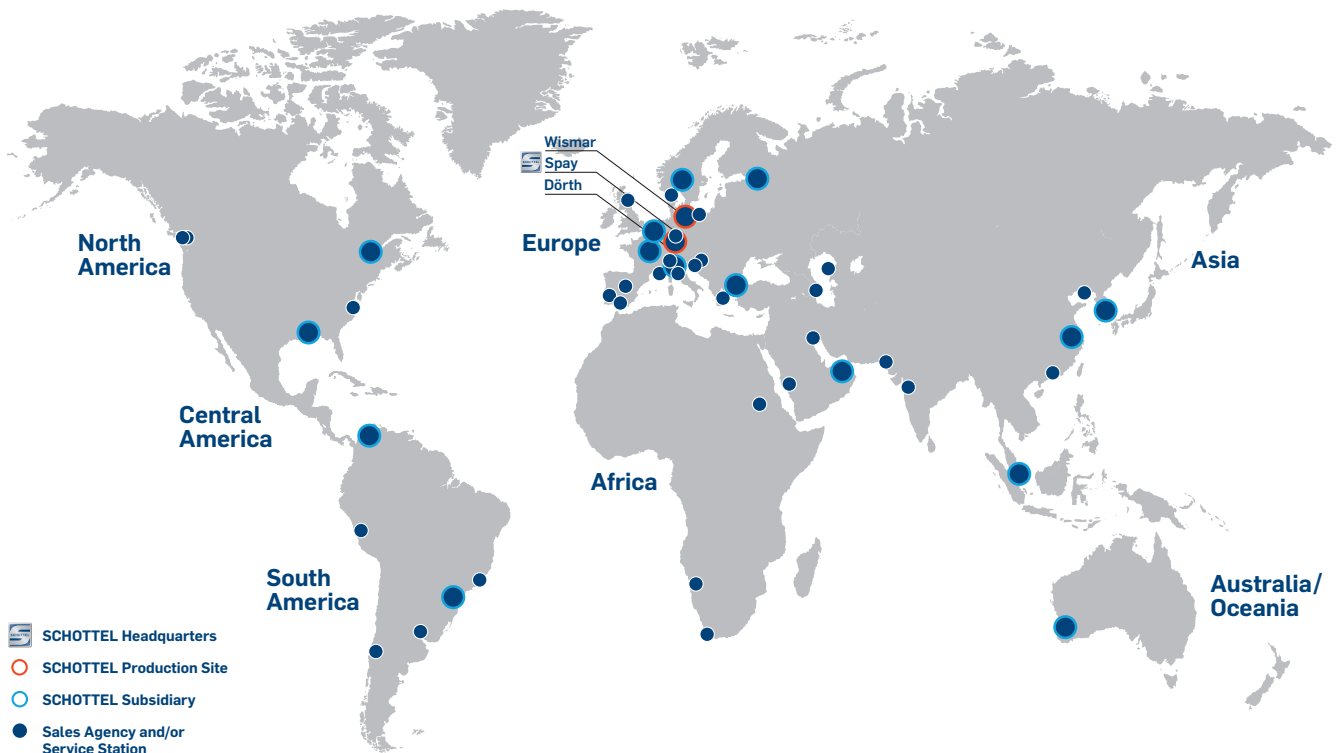
Fishing Vessels

Yachts

Dredgers

Push Boats

Naval Vessels

... and many more vessel types

✉ Please contact **sales@schottel.de** for information about your next new build or conversion project.

SCHOTTEL Worldwide

Wismar
Spay
Dörth

North America

Europe

Asia

Central America

Africa

South America

Australia/ Oceania

- ▫ **SCHOTTEL Headquarters**
- ○ **SCHOTTEL Production Site**
- ○ **SCHOTTEL Subsidiary**
- ● **Sales Agency and/or Service Station**

Your local partner