

YOUR PROPULSION EXPERTS



PROPULSION AND AUTOMATION
FOR RELIABLE FISHING VESSELS



WITHSTANDING HARSH CONDITIONS

Reliable equipment is vital for fishing companies to operate successfully. Facing rough seas, strong winds and high waves, the vessels have to be able to cope with the extreme weather conditions at sea at all times. No matter whether they are trawlers, live fish carriers or longliners: Adapting the equipment optimally to the fishing vessel's operational profile is essential for efficient operation.

This is where SCHOTTEL comes in, offering high-quality propulsion systems that deliver one thing above all: reliability. SCHOTTEL Automation Systems and Marine Services can be used to exploit the further potential of individual vessels or even an entire fleet.



**PRECISELY COURSE KEEPING
WHILE HAULING IN THE CATCH**



**BEST MANOEUVRING DURING
OPERATION IN THE OPEN SEA**



**MINIMISE NOISE AND VIBRATION –
ON BOARD AND UNDERWATER**



**PROPELLING A VERSATILE
WORKING PROFILE**



**RELIABLE MARINE
PROPULSION SOLUTIONS**

SCHOTTEL IN THE FISHING MARKET



Main and auxiliary
propulsion packages



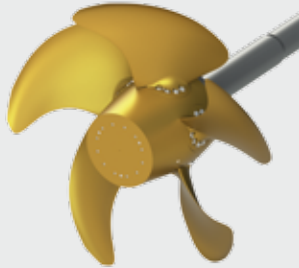
Service stations
around the world

70 YEARS

Manufacturing of
propulsion solutions

HIGH QUALITY AND RELIABLE PROPULSION

YOUR MAIN PROPULSION OPTIONS



SCHOTTEL Controllable Propeller SCP

- Maximum thrust force at changing speeds and loads
- Maximum manoeuvrability
- Reduced noise and vibration levels (particularly with 5-blade version)
- Full-feathering mode (optional)
- Minimal maintenance thanks to its robust design
- Easy access to hub for less servicing effort
- Increased safety due to take home function
- Complete propulsion package available with comprehensive equipment



SCHOTTEL EcoPeller SRE

- Best values in drive efficiency and course stability
- Optimized for open seas and coastal operating conditions with powerful DP operation
- Numerous configuration options for integration
- Versatile applications, especially suitable for medium to high speeds
- Compatible with SCHOTTEL hybrid solutions (SYDRIVE-E and SYDRIVE-M)
- Outstanding comfort as LE-drive: extremely low vibration and noise level
- Various installation options



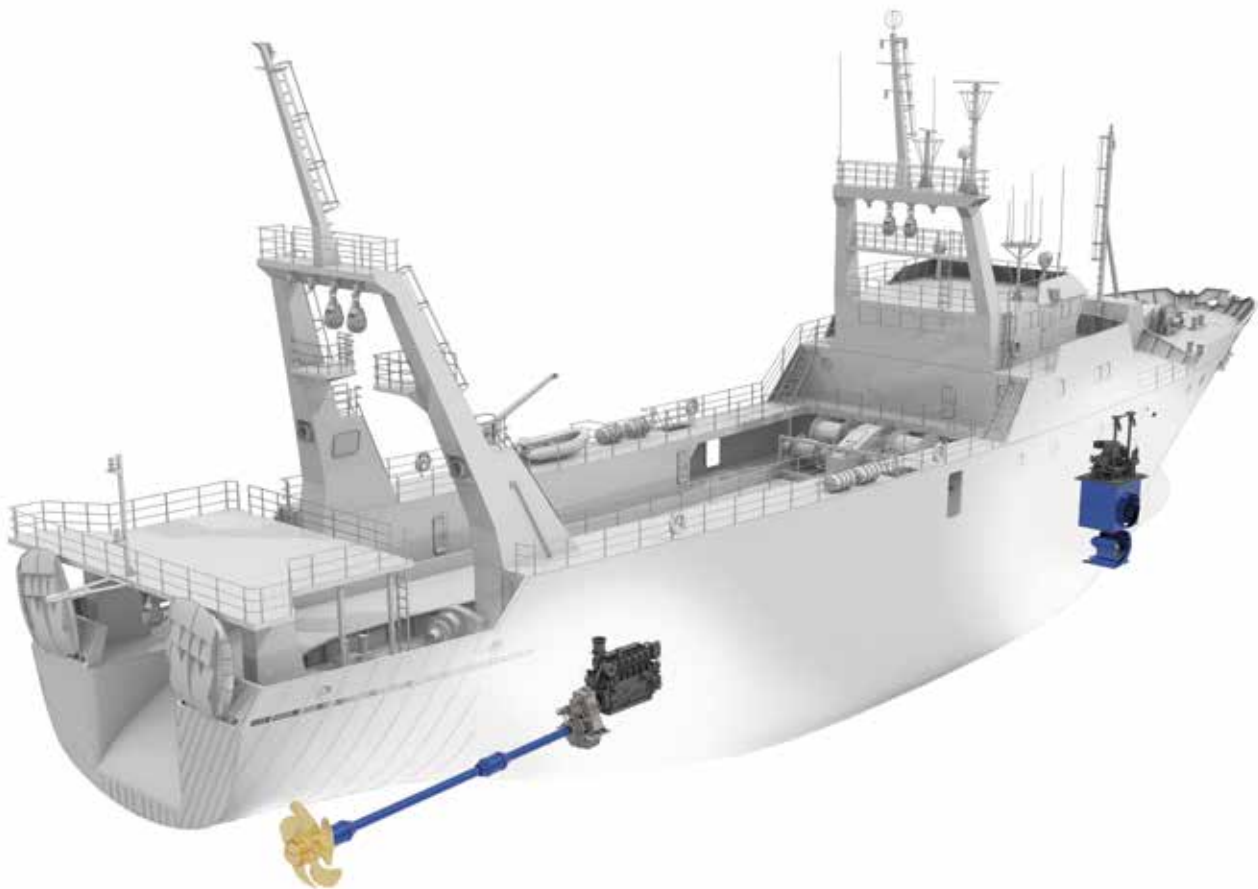
SCHOTTEL Rudder Propeller SRP

- Optimum efficiency for maximum manoeuvrability
- High propulsion efficiency: lower operating costs and lower emissions
- Precision positioning in DP operation
- Exclusive features such as ProAnode, HTG, highly efficient nozzles, LeaCon or DuroVario
- A whole range of configuration options
- Minimal maintenance effort, long-term availability of spare parts as OEM
- Compatible with SCHOTTEL hybrid solutions (SYDRIVE-E and SYDRIVE-M)

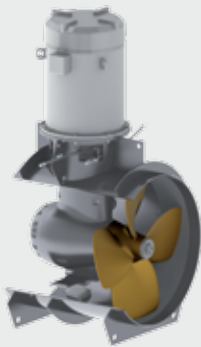


SCHOTTEL Twin Propeller STP

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



AUXILIARY PROPULSION



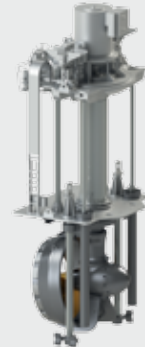
SCHOTTEL Transverse Thruster STT

- Maximum thrust
- Compact design
- Less maintenance required due to its robust, high-quality design
- Well installation for easy access to the propulsion unit (optional)
- Resiliently mounted installation for lower noise levels (optional)



SCHOTTEL PumpJet SPJ

- Fully protected, no projecting parts
- Maximum thrust with extremely compact design
- Reduced noise level
- Can be used as take-home system
- SCHOTTEL CoaGrid for even more efficiency (optional)
- Resiliently mounted installation (optional)



SCHOTTEL Retractable Rudder Propeller SRP-R

- Enhanced drive efficiency with 98-degree gearbox variant
- Flexible: Adaptation to different operation profiles
- Can be used as take-home system
- Based on successful SCHOTTEL Rudder Propeller technology

DEMAND YOUR VESSEL'S FULL POTENTIAL

SCHOTTEL AUTOMATION SYSTEMS

The modular and highly standardized propulsion control system from SCHOTTEL reliably transmits the control instructions of the ship's crew to the propulsion unit. Every propulsion type as well as auxiliary units, clutches, gearboxes and motors are controlled.

Analogue, digital and serial interfaces are available to enable seamless and secure communication with peripheral systems on board. All elements of the

system from the sensors and actuators to the switch cabinets, the underlying software and the control desk components are developed, designed and manufactured by SCHOTTEL.

A wide range of control panels, indicators and control levers ensure that the high requirements in terms of ergonomics, safety and regulations are met in all applications.

PROPULSION CONTROL SYSTEM

PropControl

- + RELIABLE** | In any situation, the instructions of the ship's command are quickly and safely translated into a response from the propulsion system
- + UNIVERSAL** | Control of all propulsion systems as well as auxiliary units, clutches, gearboxes and engines
- + COMFORT** | Ensuring the high requirements in terms of ergonomics, safety and regulations



SCHOTTEL MARINE SERVICES

Marine Services allow SCHOTTEL to offer intelligent solutions for remote access, data collection, data evaluation, condition monitoring and predictive maintenance. They also provide

remote assistance and hydrodynamic engineering services. This enables operators and owners to fully utilize the potential of their vessels.

DATA COLLECTION & TRANSFER SYSTEM

MariHub

- + CONNECTED** | Link equipment from ship to shore
- + ANYTIME** | 24/7 real-time data and insights
- + SECURE DATA** | Reliable and encrypted data transfer according to highest standards



IoT PLATFORM

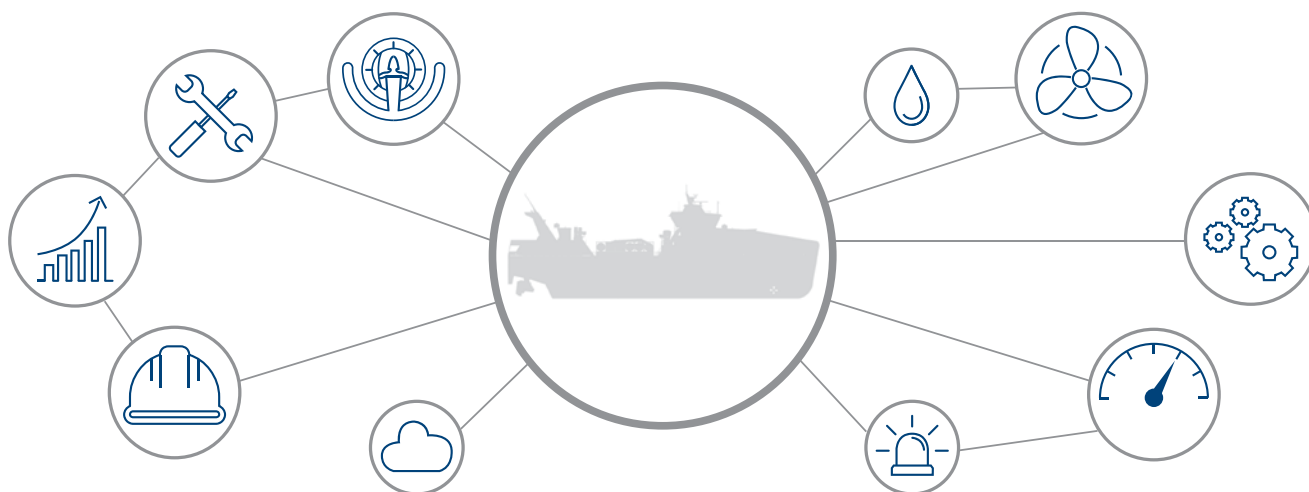
MariNet

- + COMPETITIVE** | Advantages due to higher awareness of the vessel's performance
- + ProCMS** | Propulsion condition monitoring service by SCHOTTEL expert
- + ProDATA** | Remote data service with historical and live data view

PROPULSION CONDITION MONITORING SERVICE

ProCMS

- + INCREASED UPTIME** | Due to condition-based equipment evaluation
- + QUICK RESPONSE** | Shortened process time for solving problems
- + PREDICTIVE** | Early failure detection to keep downtimes to a minimum



PROPELLING A WIDE-RANGING OPERATIONAL



Longliner Cap Kersaint 2 x STP 340 (1000kW each)

PROFILE



Longliner Northern Leader 2 x SRP 340, 1 x STT 170

PRODUCTS

REFERENCES

AFTER SALES

TECHNOLOGY



Trawler Argos Cies 1 x SCP 1004 (3000 kW), 1 x STT 1 (400 kW)



Trawler Janne-Kristin 1 x SCP 714 (1326 kW)



Live Fish Carriers Aqua Maløy, Aqua Skilsøy 2 x SRP 360 (1400 kW each), 2 x STT 1 CP (400 kW each)



Fishery Supervision Vessel Mugunghwa 2 x SCP 654 (1750 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.



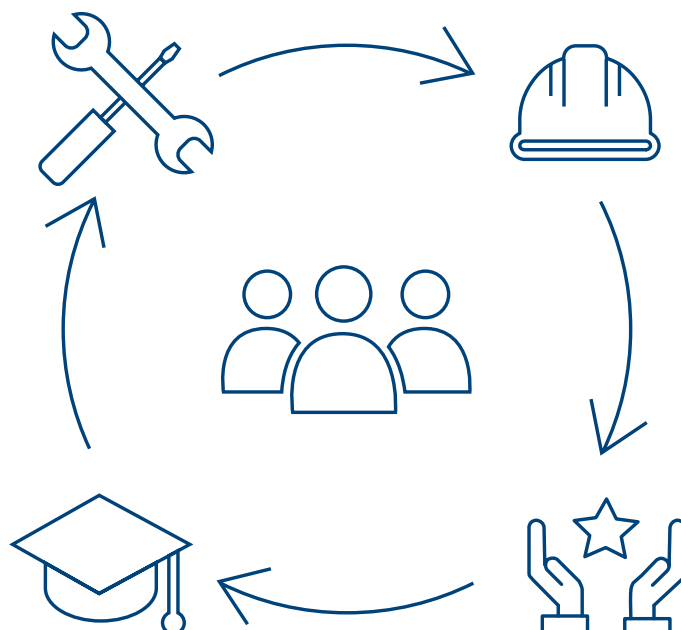
SPARE PARTS

- 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



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

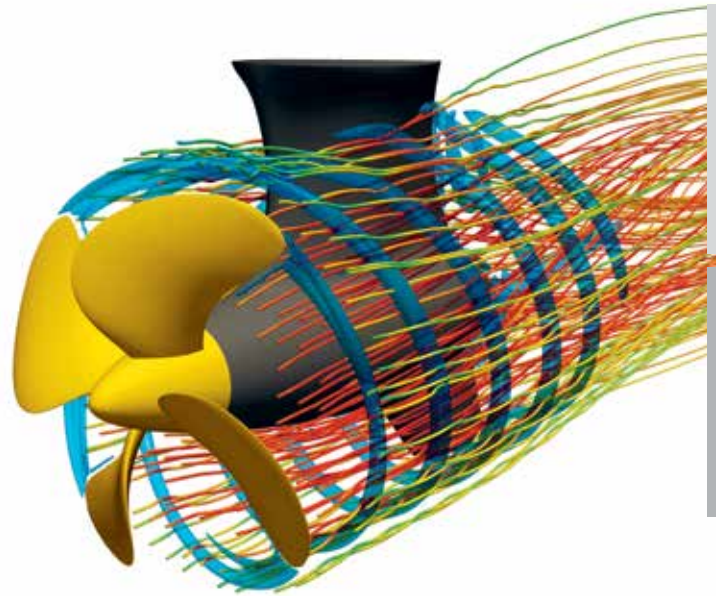
- Mechanical power transmission
- Structural mechanics
- Hydraulics & pneumatics
- Sealing technology

HYDRODYNAMICS

- Propeller design
- Model testing
- Computational fluid dynamics

ELECTRICAL ENGINEERING

- Automation
- Power electronics
- Assistance systems



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



Naval
Vessels



Ferries



Yachts



Dredgers

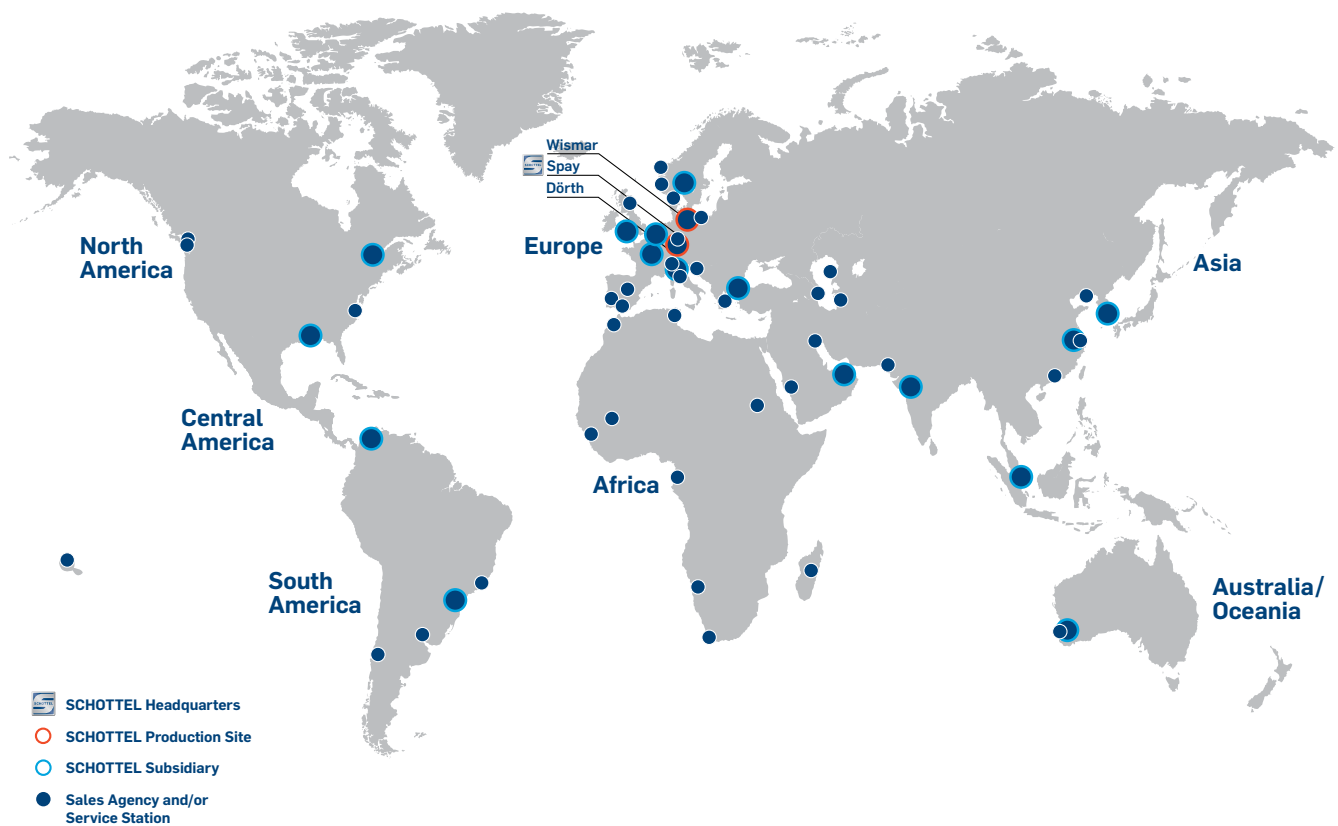


Push Boats

... and many more vessel types

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

SCHOTTEL Worldwide



Your local partner