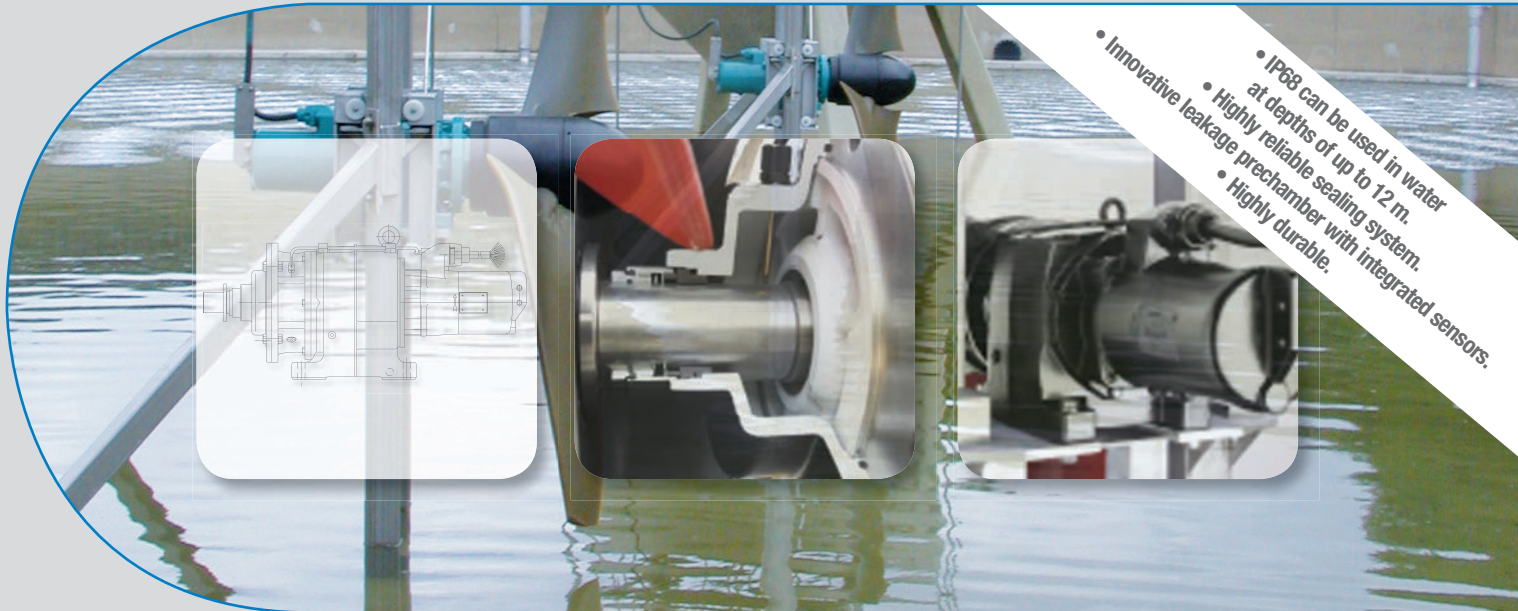


Your application: Drives for underwater applications

Our solution: E4-Aqua Drives



- Innovative leakage prechamber with integrated sensors.
- IP68 can be used in water at depths of up to 12 m.
- Highly reliable sealing system.
- Highly durable.

Drive requirements

- High system reliability
- Durability and ruggedness of the drive
- Early warning system for identifying leakages
- Long service life of the system solution in spite of high loads due to environmental conditions (e.g. suspended matter such as branches, etc.)
- Absorption of the process-related high axial and radial forces by the gearbox
- Scalable service life, e.g. bearing service life 25,000 hrs or 50,000 hrs
- Output shaft adapted to the machine interface (propeller)
- Broad performance and torque range for catering to the fields of application

Features product line Underwater Gearboxes E4-Aqua Drives

- Reinforced output shaft bearings
- Highly reliable shaft seal system (combined NBR-PTFE seal to the gearbox, dynamic bearing ring seal of the output shaft)
- Leakage detection as a preventive protective function realised by means of prechamber principle: system operator receives an early warning signal for maintenance scheduling
- Leakage monitoring sensors encapsulated on both sides
- Long-life housing sealing system (surface and additional liquid seal)
- High-grade heavy duty paintwork with a film thickness of 350 µm (as per customer specification) guarantees maximum adhesion, hardness, chemical and water resistance
- Compact gearbox/submersible motor unit with preconnectorised cable harness
- Output shaft in stainless steel (e.g. 1.4122 or as per customer specification)

- All built-on parts in stainless steel design (e.g. sealing, mounting screws and sensor pipework)
- Rugged housing design (high rigidity thanks to reinforcing ribs and large wall thicknesses)
- High gear teeth quality (carburized shaved gearings)
- All motor options available for versions IEC motor and integral version

Premium Stephan E4 solution: Underwater gearboxes E4-Aqua Drives

- Broad performance range from 1.1 – 5.5 (production); up to 37 kW (project engineering)
- Broad range of options for the best fit in the application, for example reinforced bearings, special paintwork and film thicknesses, special bearing service life, extended maintenance intervals, specific customer interfaces (flange, shafts, etc.) to specification
- Version available for attaching standard IEC motors or as an integral solution (geared motor)


Your benefits with Premium Stephan: E4-Aqua Drives

- High system reliability
- Durability even under the harshest application-conditions
- Rapid commissioning thanks to compact, ready-to-connect system solutions
- Preventive maintenance thanks to integrated early warning system
- Optimised price/performance ratio thanks to customised features

More than 15 years experience in environmental engineering and aerator drives

We ensure that your application is a success!

Performance range of Premium Stephan underwater geared motors.

Product group	Mounting examples	Nominal ratio range and output torque (Nm) for gearbox size		
		1 - 5	6	7
Helical gearbox EI		- 2800 Nm	- 5000 Nm	- 9000 Nm

Other versions on request

Our world revolves around you



Conveyor Solutions

C4-Gearmotor Series



Environmental Solutions

E4-Gearmotor Series



Customized Solutions

by Premium Stephan

Your benefits

Speed and time to market

- Independent project teams comprising project management, design, order handling and processing
- Pragmatic approach and the elimination of non-productive bureaucracy, coupled with professionalism in project handling

Professional project management

- Many years of experience with customer-specified developments and volume production with international logistics requirements
- Clear processes and standards for project management and project milestones combine to ensure reliable processes and efficiency in the customer-supplier relationship

A partner in project engineering

- Many years of experience and references to our reputation for project engineering
- Customer and project-specific product and project documentation

Flexibility of range. Speed of implementation. Reliability of partnership.



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