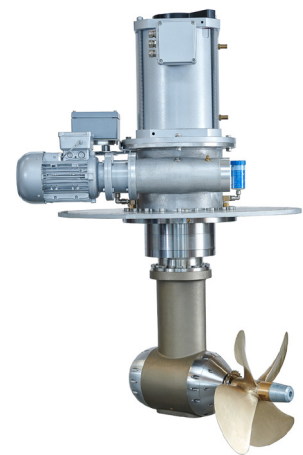
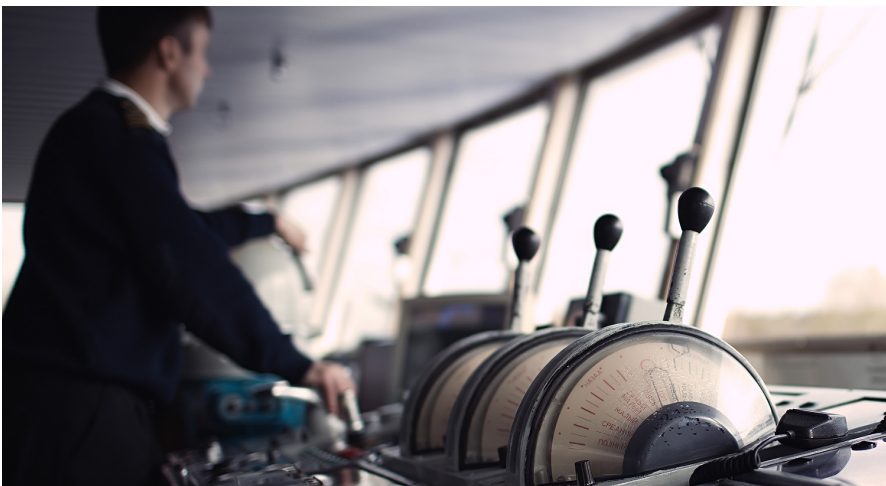


## Electric propulsion for a reliable, environmentally-friendly and economic way to operate your vessel

We already know electric propulsion is synonymous with low levels of noise, pollution and vibration. However, CG Emotron has together with collaborator Kräutler developed an electric propulsion system with much more to give.

In this system two energy efficient PM motors run a completely electric propulsion system with a unique integrated PLC allowing you to control each kW used, making sure every penny is well spent.



*Kräutler rudder propeller KRP 75*

### Redundancy for a reliable operation

The propulsion system is run by two Kräutler rudder propellers with 360 degree maneuverability. Together with an intelligent drive solution, the compact and redundant electric propulsion system is ideal where reliability and economic efficiency is key.

### Emotron drives for best point of efficiency

The brain behind this electronic propulsion system is the newly designed Emotron PM main drive in combination with an intelligent control system and auxiliary drives. The drives are programmed to find the best point of efficiency operating the two PM motors.

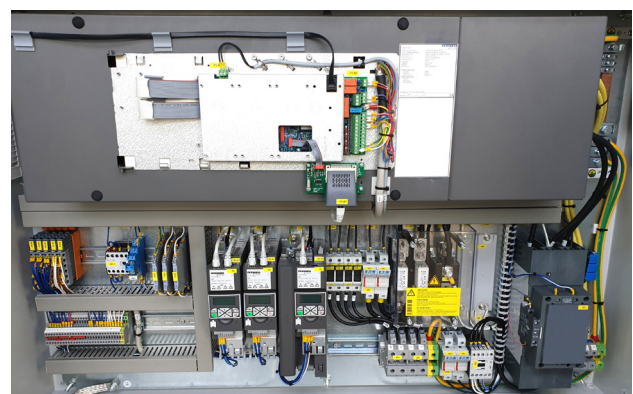
### Complete control of your power consumption

The control system consist of a unique integrated PLC. The PP65 intelligent integrated automation and control system allows you to view important parameters such as power consumption and propeller speed. It allows the captain to estimate how far and fast you can go, given a certain power usage.

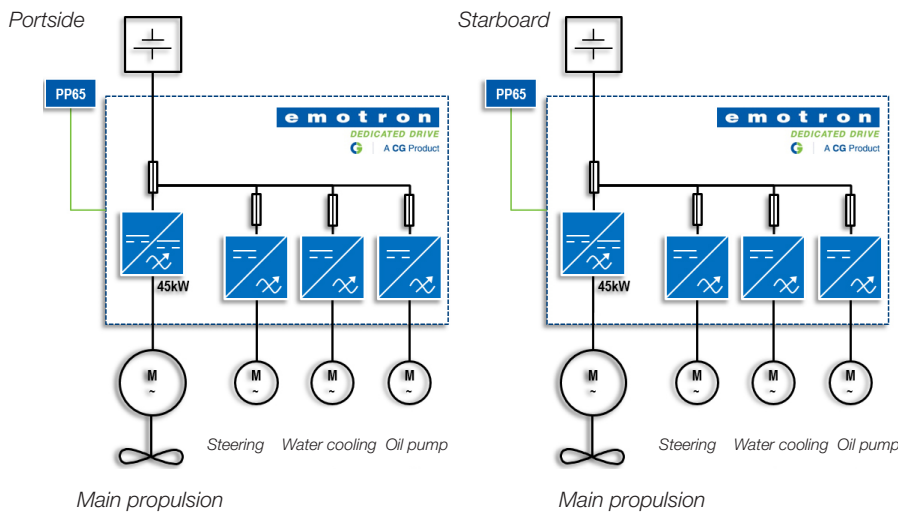
The integrated control system holds a range of automatic functions and can be easily adjusted to suit specific needs.

### Compact water cooled variable frequency drives

The energy efficient drives are water cooled and compact, suitable even for small ships where space is critical. They are equipped with Modbus TCP for communication and are remotely accessible.



*Emotron FDU IP2X liquid cooled, DSV 35, PP65 with special software for steering control and main drive.*



Redundant main propulsion with auxiliary drives. Emotron PP65 for main propulsion drive monitoring.

### Complete solutions with European partner Kräutler

Some of the first projects for fuel efficiency optimization technology started in 2016 on inland water vessels with a European partner Kräutler.

Ever since, CG Emotron is delivering complete solutions for marine vessels, including all drives, the control system and commissioning. The package also includes the main drive as selected by the shipbuilder.

### Marine certifications

Variable frequency drives with marine certification DNV-GL or BV are generally used for marine electrification projects.

At Emotron, expert knowledge is always at your fingertips. Your marine project team will follow you every step of the way. We manage a design review followed by an in-house survey when necessary and have well-established contacts with all the major certifying bodies.

We test all of your components individually before commissioning, for your peace of mind.

### Worldwide service network

With a worldwide partner network and remote access solutions, we can offer service contracts to fit your needs. The complete service offer includes:

- ✓ Commissioning
- ✓ Training
- ✓ Test facilities
- ✓ 24/7 support
- ✓ Remote access
- ✓ Application diagnostics
- ✓ Maintenance
- ✓ Extended warranty
- ✓ Repairs



*We put all our energy into saving yours.*



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**emotron**

DEDICATED DRIVE



A CG Product