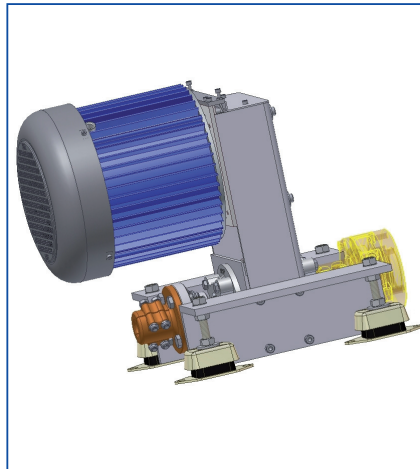


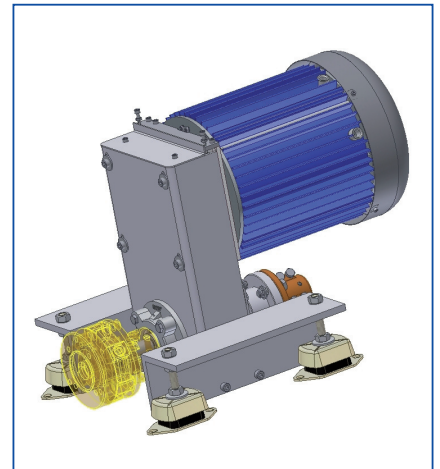
# HYBRID-DRIVE

**Kräutler electro-motors for boats are the most wanted in the hole world.**

**The traditional Austrian company develops a innovation, which has the stuff for a bestseller: Hyrid-engine systems for power- and sailingboats.**



HyG AC



HyD AC

With the Hybrid-developments “HyG AC” and “HyD AC” demonstrate Kräutler one time more the engineers- and innovation competence in electromotors for boats. In bond of the combustion engine and the batteries pointed the Kräutler Hybrid-drives in maintenance-free brushless design with generator mode and a articulate higher on-board power supply.

Easy switched by a push button, the electric motor can be the main drive or the generator. The charging current and charging voltage are programmable, so you can not overcharge the batteries.

Electric motors are totally emission-free. They are the future in maritime applications, since they apply to all environmental protection requirements, today and in future.

The low noise motor grants minimal vibration, is free of emission, such as CO<sub>2</sub> and highly reliable in operation - so it is perfect for application on lakes, natural parks and harbours.

The single-lever offers continuous control and operates the motor in forward and reverse gear. The highly sophisticated control works without any energy loss.

## Kräutler “HyG AC” for powerboats

This type will be for a serial operation with a combustion engine.

If you use to the combustion engine, the motor can work as a generator.

## Kräutler “HyD AC” for sailingboats

The generator function happens through the propeller (this replace the shaft generator). The charging power started after 3 or 4 Beauford. If the combustion engine works together you can drive longer with the electric motor, because you have high charging times.

Also the on-board power supply (12V) is much better, if you work with a DC/DC converter form 48V to 12V.

### Typ: HyG AC

Performances up to 8kW displacer + glider

### Typ: HyD AC

Performances up to max. 4kW - displacer

