



Bow and



Stern Thruster Systems

www.twindisc.com

or phone 07 32651200 or 08 9355 3033

Electric Thrusters

1

The **electric motor** is of the reversible type at continuous current, available either at 12V or 24V. It is suitable for a continuous running at max speed. The quality level is very high, according to the best production standards, in order to ensure an efficiency and a longer, trouble-free life. Working times are shown on motor label.

2

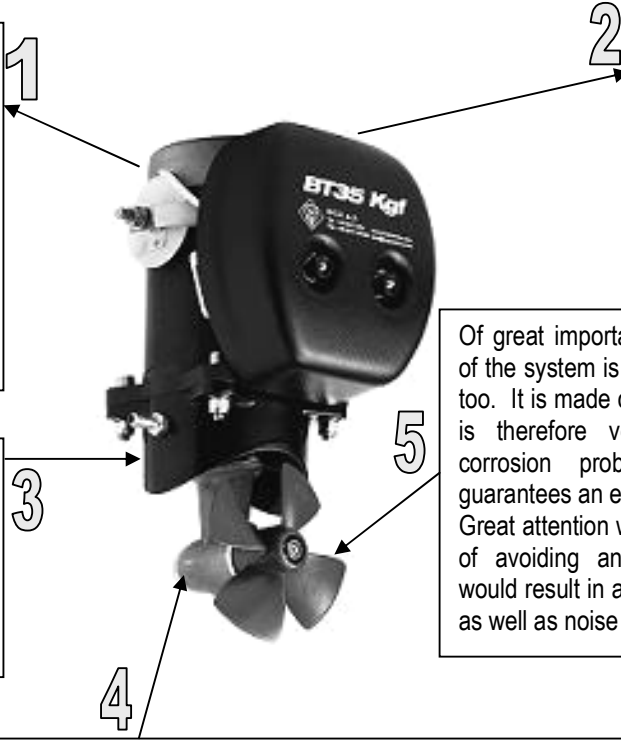
The start-up **relay** placed behind the cover has the function to start the electric motor, as well as the one of allowing the inversion of the rotation direction.

3

The motor **flange** is directly fitted on the thruster leg (4) and has the function of supporting the electric motor itself and fix it to the tunnel. It is built in a special alloy and has a strong structure to ensure the best stability.

5

Of great importance for the best efficiency of the system is the three blades **propeller**, too. It is made of a compound material and is therefore very light and free from corrosion problems, while its design guarantees an equal thrust on both sides. Great attention was also paid to the attempt of avoiding any cavitation effect, which would result in a considerable loss of thrust, as well as noise and tiresome vibrations.



4

The thruster **leg** is in bronze and it is provided with a particular design, which reduces the hydrodynamic resistance to a minimum in order to ensure a better efficiency. It is provided with a zinc anode for protection against electrolytic corrosion. All the transmissions gears inside the leg are realized in high tensile materials and are treated to provide a long working life even under heavy-duty conditions. Particular care is also given to their design, so as to considerably reduce the noise. The transmission gears are protected by elastic couplings, as well as a shear and drive pin.

