

## **The Modern Race Boat**

A huge stride in building technique through a growing supply of commercially available parts has led to an EC12 that can be modularly built. She is stronger, simpler and easier to build and work on. Electronic systems have immensely improved to reduce owner costs and workloads at organized regattas.

The first was a well designed and fabricated light weight deck that was self supporting. This deck did not have the issue of righting moments like predecessors with different processes and materials. The molded deck in use today needs only a small diameter shaft to prevent mast compression and thin aluminum sheet backing for deck hardware. The time to prepare and install this deck is far less than the classic framed deck.

The evolution and introduction of the integrated system board that would house the electronics and the sheeting system is currently (2009) racing through home shops. This single unit can be removed by one screw on the platform and disconnecting the rudder tiller link. Further for the more serious competitors, the whole system board can be replaced with a spare in a matter minutes should a component fail.

RMG SmartWinch upgraded to a motor with finer resolution by doubling the number of turning step positions during rotation. A further, new processor that programs and monitors the winch operations has increased its observations of the motor and options for the buyer. Additionally, the winch is user friendly with radio matters during the introduction of Spread Spectrum band RC control systems.

Finally, with the introduction of the SS band radio competitors have more feature controls through programming for the helmsman. She can be smoother on the water and during sheeting and trim movements.

The EC12 has moved forward from its heritage into a modern racing yacht model where attention to detail and micro knots run the fun meter up.