



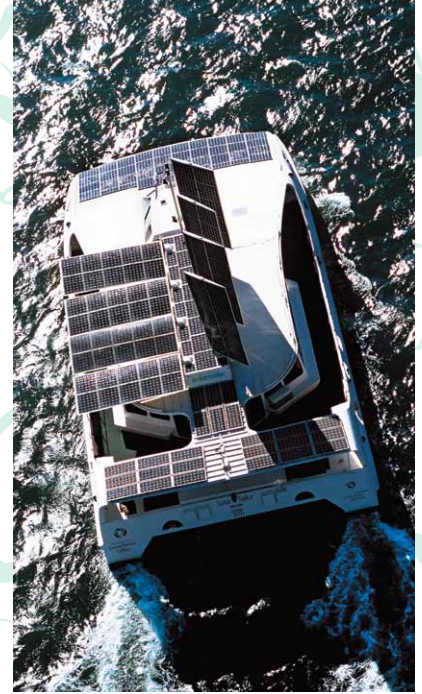
AUTOPROP

ECO★STAR PROPELLER



When it was launched over twenty years ago the designers of Autoprop could not possibly have realised just how important their unique design was to become in the twenty first century. Thousands of cruising yachtsmen around the world already sail faster and motor further and more economically using Autoprops. They are now being joined by a growing number of owners using energy efficient vessels powered by hybrid or pure solar power systems and the Autoprop, with its unique auto pitching abilities, is the ideal, perhaps only choice, for those vessels to be efficiently propelled. With the launch of the new Autoprop Eco*Star Propeller these abilities have been considerably increased.

The Autoprop Eco*Star Propeller may look very similar to an original Autoprop but, after considerable research and subtle redesign as part of the HyMar Project[†], its performance has been dramatically improved for use on hybrid and solar powered craft. So much better is the performance we believe the Autoprop Eco*Star is now the only propeller choice for all types of craft whether electrically or diesel driven.



“The ability of the props to push the boat forward 1 knot faster than previously is very significant, and they also create a lot less cavitation in higher seas – a big problem with the old props.”

Oliver Stapleton,
13m Aluminium Catamaran
Solomon Electric Drives



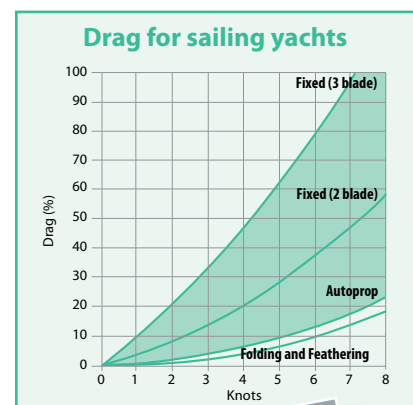
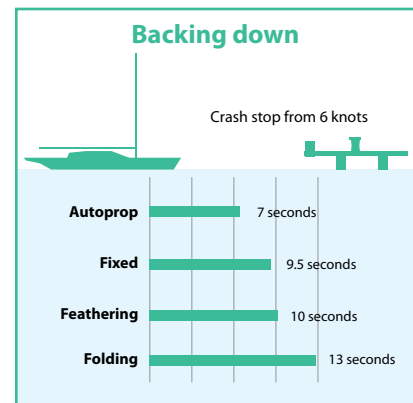
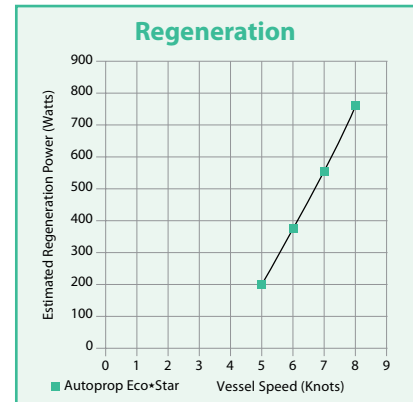
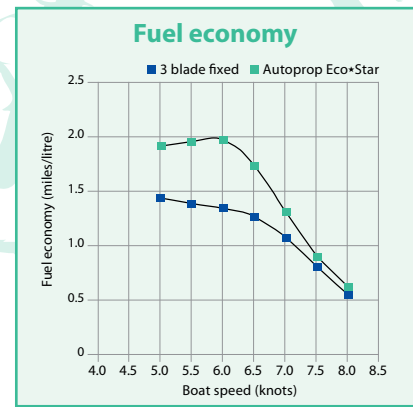
[†]HYMAR is an EU supported, collaborative research and development project. Its aim is to develop state of the art marine hybrid systems for displacement vessels up to about 24m in length.



The benefits

It's already acknowledged that Autoprops are highly efficient because of their ability to auto pitch depending on engine speed and weather and sea conditions; an ability that provides optimum thrust at all times. But with purely solar or with hybrid power the list of advantages provided by the new Autoprop Eco*Star Propeller is further extended.

- ⚡ Electric motors, unlike diesels, provide a constant torque from zero to maximum rpm. Only the Autoprop Eco*Star Propeller, using its auto pitching ability, can match its own efficiency curve with that of the electric motor. The result, a considerable improvement in the economy deliveries available compared with other propellers. Put simply, more boat speed but using much less energy.
- ⚡ On sailing yachts, when speed is not an issue but increasing battery energy is, the Autoprop Eco*Star Propeller can be allowed to turn in the vessels wake and the drive motor automatically becomes a generator recharging the batteries. Up to 1Kw of power can be regenerated in this way.
- ⚡ All the original Autoprop benefits are still available with the Autoprop Eco*Star Propeller. Backing down is much more efficient thanks to the propeller blades being the same optimum shape in astern as they are ahead.
- ⚡ Drag when sailing with the Autoprop Eco*Star Propeller's blades feathered is reduced by up to 85%, providing speed increases of up to one knot.
- ⚡ For existing vessels the Autoprop Eco*Star Propeller is 'retrofitable'. It comes already assembled to fit on an existing shaft or saildrive leg. It is silent in operation and optimises its pitch fully automatically. In short it provides the most environmentally responsible and efficient propulsion for any vessel powered by hybrid or solar systems.



The Autoprop Eco★Star Propeller Range

H5E, H20E, APSE

- ↔ Diameters 380mm to 510mm or 15" to 20"
- ↔ Shaft diameters 20mm to 35mm or 7/8" to 1 1/2"

H6E, H9E, H62E

- ↔ Diameters 470mm to 900mm or 19" to 35"
- ↔ Shaft diameters 35mm to 75mm or 1 1/2" to 3"



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BRUNTONS CUSTOM DIVISION

Bruntons custom division provide solutions to naval architects, yacht owners and constructors around the world covering the most complicated of marine propulsion problems. Whether it is a fixed, folding, feathering or surface drive propeller at the end of the shaft, our highly qualified designers and engineers will supply the answer. Call us for help or to order a copy of our custom division brochure.