



perfect propulsion

AUTOPROP

Automatic Variable Pitch Propellers



The world's toughest propeller
BT Global Challenge
Ltd

Whatever your type of cruising yacht, mono or multihull, heavy or light displacement, you will find fitting an Autoprop greatly enhances the performance of your vessel under power **and** sail. Better performance means faster passage times and more satisfying sailing for both skipper and crew.

This brochure highlights Autoprop's many advantages - no other propeller can provide so many in one package! Autoprop is the total propulsion solution for cruising yachts.

Motor sailing

Autoprop automatically adopts the most efficient pitch setting taking into account the driving force of the sails. The result is increased speed at lower engine revs, giving longer range and more comfortable cruising.

Drag

Perhaps we should say 'lack of drag', as this is what the Autoprop provides. With her blades in the feathered position, drag compared with a fixed three blade prop, is reduced by up to 85%. The two blade version provides even bigger reductions. These huge savings can equate to a knot or more in added boat speed when sailing.

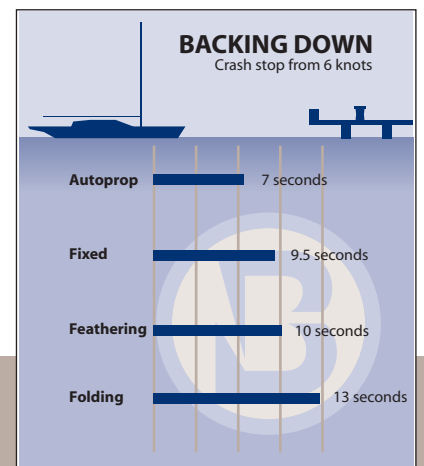
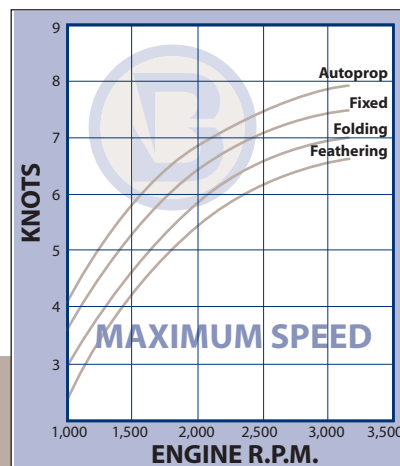
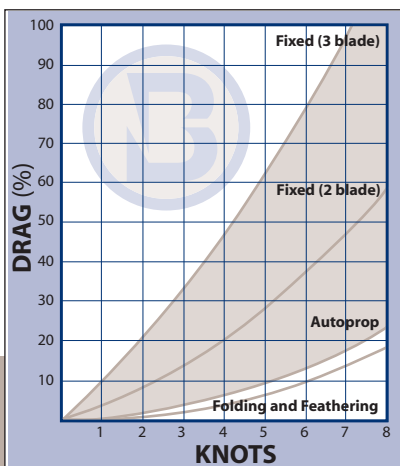
Fuel saving

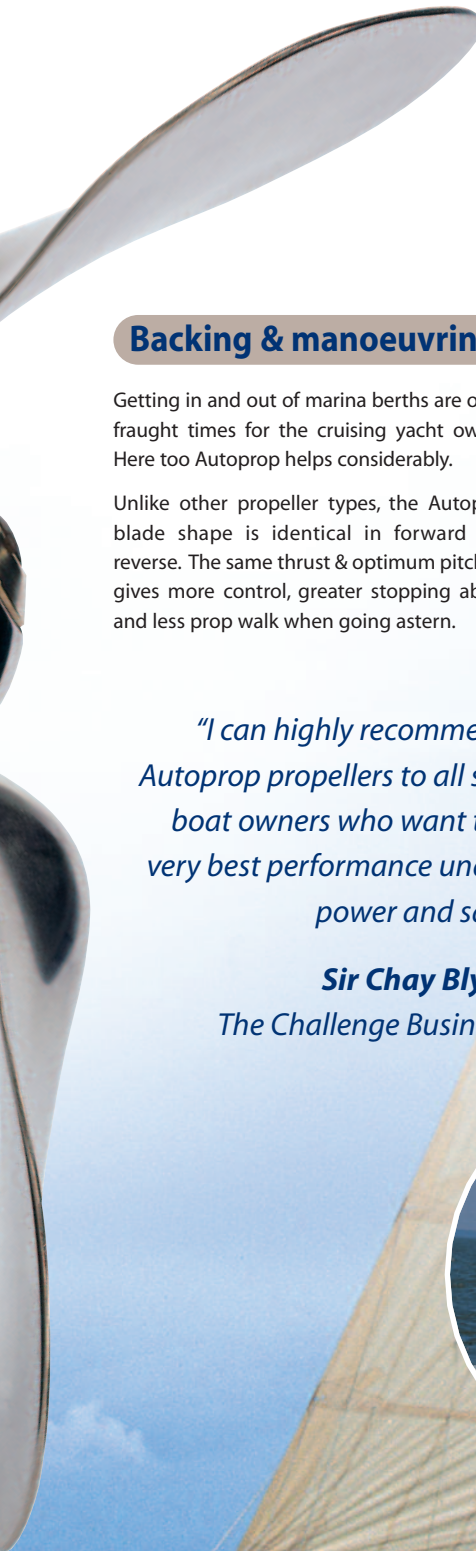
Autoprop is the only propeller which - automatically varies its pitch depending on operating conditions, thus maintaining maximum efficiency at all times. Higher speeds and greater range are the result.



"Reversing the boat is much easier, the boats track is now predictable. Motoring into a force 7 to 8 the Autoprop punched us through heavy seas effortlessly"

Najad 460 owner





Backing & manoeuvring

Getting in and out of marina berths are often fraught times for the cruising yacht owner! Here too Autoprop helps considerably.

Unlike other propeller types, the Autoprop blade shape is identical in forward and reverse. The same thrust & optimum pitching gives more control, greater stopping ability and less prop walk when going astern.

"I can highly recommend Autoprop propellers to all sail boat owners who want the very best performance under power and sail"

Sir Chay Blyth
The Challenge Business

Thrust

Autoprop provides a higher thrust than any other propeller designed for the same maximum engine rating. Whatever the conditions in which you are motoring, Autoprop's ability to automatically maintain the optimum pitch angle throughout your engines' speed range means increased speed and cruising range under power.

Your yacht's normal cruising speed will be maintained using lower engine revs, giving quieter cruising and lower fuel consumption.

Installation/Maintenance

Installation could not be easier! Autoprop comes ready assembled to fit on to your existing shaft. Maintenance is equally straight forward with a simple greasing operation all that is required when the yacht is lifted.

Unlike our competitors all wearing parts are replaceable. To remove the propeller an Autoprop 'puller' is available.



The Autoprop range

H5

- Diameters 380mm to 510 mm or 15" to 20"
- Shaft diameters 20mm to 35mm or 7/8" to 1 1/2"
- For engines rated to 100hp



H6, H9, H62

- Diameters 470mm to 900mm or 19" to 35"
- Shaft diameters 35mm to 75mm or 1 1/2" to 3"
- For engines rated to 350hp



H20

- Two blade
- Diameters 330mm to 430mm or 13" to 17"
- Suitable for shafts and saildrives
- For engines rated to 50hp



APS (Autoprop saildrive)

- Diameter 330mm to 510mm or 13" to 20"
- Suitable for all leading makes of saildrives - Volvo, Bukh and officially approved by Yanmar
- Rubber insert prevents shock loads being taken by the shafting in the saildrive leg
- Double nut locking feature ensures secure fitting to saildrive leg
- Anode as standard



Trials on Sun Odyssey 34.2: feathering propellers

Speed	Engine rpm	
	1500 rpm	2200 rpm
Propeller X	3.85 kn	5.50 kn
Propeller Y	3.75 kn	5.35 kn
Propeller Z	4.20 kn	5.75 kn
Autoprop	5.10 kn	6.65 kn

Fuel consumption	at 6 knots	
	Propeller X	2.2 l/h
Propeller Y	2 l/h	
Propeller Z	2.03 l/h	
Autoprop	1.40 l/h	

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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.



"A phenomenon across all speeds is the Autoprop. An excessive amount of engine power is always available, because this propeller comes up with optimum efficiencies at any speed."
De Yacht Magazine



"Certainly one of the most interesting propellers in our survey. It demonstrated good speeds under all conditions."
Vela Motore



"The qualities of the Autoprop make it perfect for long distance cruising. It ranked first for consumption at cruising speed."
Voile Magazine



"Our tests show the Autoprop achieved 6 knots at 2100 rpm compared to 2500 rpm for our standard prop and most of the others on test."
Yachting Monthly



"At RPMs up to 2000 no other propeller can beat the Autoprop, it clearly gave more speed."
Seil