The remarkable VARIFOLD propeller range has grown from a single two blade model to include three and four blade versions in a very short space of time. VARIFOLD is the propeller of choice for many highly respected yacht manufacturers and their customers. For years, owners of yachts equipped with folding propellers have suffered from a multitude of problems to which there seemed no solution. High noise, vibration and cavitation levels, poor astern performance and unreliable blade opening degraded the enjoyment of ownership. Today, with a three model range covering all sizes of yacht, owners can enjoy the benefits that VARIFOLD brings.

This site will tell you more about the unique design features which find VARIFOLDs being fitted to Swans, Baltic Yachts, Wally's and Moody's to name but a few.

To get the whole story, do contact us and we will be very happy to discuss the right model and size for your yacht.

VARIFOLD Design

VARIFOLDs are designed to solve problems which have affected folding propellers since they were first introduced. Working with SPW, and other companies in the Bruntons group, who design and manufacture propellers for vessels as diverse as nuclear submarines and luxury motor yachts, the designers have achieved their objectives.

The resulting range of propellers share design features which are little short of revolutionary. VARIFOLD marries virtually all the benefits of a fixed propeller when motoring, to those of a low drag folding propeller when sailing.

VARIFOLD's very low noise and vibration characteristics are achieved by state of the art blade design and proper helical pitch distribution, including pitch reduction towards the blade tip. This radically reduces cavitation and, in combination with the skewed blades, greatly reduces noisy pressure pulses against the hull.

No other manufacturer offers this full package on such a wide range of folding propellers. Putting the technicalities to one side it's very simple - VARIFOLDs work!
Varifold 2-Blade:
up to 50 hp

Varifold 3-Blade:
up to 350 hp

Varifold 4-Blade:
up to 750 hp

2-Blade
- Diameter 305 mm to 432 mm or 12” to 17”
- For engines rated to 50 hp
- Available for shafts & saildrives
- Blades fold completely together for minimum drag
- Modern blade design with substantial blade area for smooth running and minimum noise & vibration
- Rubber bump stops minimise blade opening impact

3-Blade
- Diameter 432 mm to 813 mm or 16” to 32”
- For engines rated to 350 hp
- Available for shafts & saildrives
- Latest blade design incorporates high skew and cambered blades for smooth operation
- Pitch reduction at the tip to reduce pressure pulses on the hull

4-Blade
- Diameters up to 1,016 mm or 40”
- For engines rated to 750 hp
- Designed for high power sailboats, to minimise noise & vibration
- Incorporates the latest low noise blade design
- High blade area minimises cavitation and thrust breakdown at full power giving improved efficiency and speed

Varifold sailing
VARIFOLD, in all its versions – two, three and four blade, is an exceptional low drag racing propeller. Unlike some folding propellers, on most installations VARIFOLDS do not rotate when sailing, even at higher speeds.

Varifold astern
Varifolds open when you go astern! This is again a feature of the design which relies on hydrodynamics as well as inertia to assure reliability. Thrust is greater than other folders by virtue of the design.

Varifold ahead
Most folding propellers suffer from varying degrees of noise and vibration and the problem becomes worse the more power the propeller has to deliver. If your yacht has an engine from 20hp to 750hp, there is a VARIFOLD for you which will provide high thrust with smooth and quiet running.

... We installed a VARIFOLD 4 blades with smaller radius, folding, with a new blade design and built in high strength NIBRAL Alloy material. Which is much stronger and especially for ice regions certificated. No more noises, vibrations, soft running, Makoré passed from 6,5 knt to 7,3 at cruising speed, and becomes much more powerful at acceleration. ...

Fabrice und Isabelle, onboard Makoré II

Perfect!
PG Johansson of Baltic Yachts on the 4-Blade VARIFOLD fitted to a Baltic 147 (45 m, 75 to).
### Dimensions | Varifold 2-Blade:

<table>
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<tr>
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<th>d mm</th>
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<th>TPL mm</th>
<th>Thread</th>
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### Dimensions | Varifold 3-Blade and 4-Blade

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### American Taper

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TPL = Taper length

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**Distributed by:**

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Bruntons Varifold

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