

VARIFOLD SMART
FOLDING PROPELLERS



A PRODUCT OF

SPW GmbH
SAIL PROPELLER- UND WELLENBAU



SE SMART Edition

So much depends on the propeller of your yacht:
Your enjoyment of sailing and especially your safety on the water!

So why settle for the standard? In the past, yacht owners with conventional folding propellers had to fight against many problems. Some of the recurring symptoms were loud noises, vibrations and low reverse thrust due to unreliable opening of the blades.

Since the VARIFOLDS were introduced to the market in 2000, such problems have become obsolete. The VARIFOLD has already been rightly dubbed the "Whispering Folding Propeller" by the magazine "Meer und Yachten".

The VARIFOLD SMART optimises the VARIFOLD series as a real charmer among the folding propellers and, as a 2- and 3-blade version, offers you fast sailing with lots of fun when rounding the windward buoy at regattas and confident cruising for touring sailors. An all-rounder for racers and cruisers that is second to none.

When required, the VARIFOLD SMART offers effective thrust and low-vibration running under engine power.

With this brochure we would like to introduce you to some of the features of the VARIFOLD SMART.

If you would like to know more about the VARIFOLD SMART, please contact us. We are guaranteed to determine the optimum VARIFOLD SMART for your yacht and make you a happy folding propeller owner.



VARIFOLD SMART DESIGN

The VARIFOLD SMART was designed by SPW's chief designer to offer an efficient folding propeller in the VARIFOLD series with 2 or 3 blades especially for small yachts up to 40 hp.

The VARIFOLD SMART is a product of SPW GmbH Germany. The concentrated competence and expertise in the field of special propeller construction, e.g. for luxury sailing yachts, contributed to the development of the VARIFOLD Smart blade. The result: a folding propeller that is almost revolutionary.

The VARIFOLD SMART combines all the advantages of a fixed pitch propeller with the low drag of a folding propeller for optimised sailing. Due to the special blade design, the VARIFOLD SMART also has a quiet, low-vibration run for relaxed motoring and offers good manoeuvring in the harbour.

If you combine all the technical advantages into one simple statement, you can say: "The VARIFOLD SMART keeps its promises and works perfectly!"



Simplest assembly and highest safety:

The VARIFOLD SMART is uncomplicated to assemble following the assembly instructions.

Sturdy bolts ensure that the propeller blades are reliably secured. These have holes through which the locking screw of one blade is screwed far into the hub. This extremely reliable securing of all blades ensures that no blade can get lost!

The material of the VARIFOLD SMART is a high-grade anodized in high strength Nickel-Aluminium alloy. This marine bronze is protected against electrolysis and corrosion by an anode on the saildrive hub, and by a shaft ring anode in the case of a shaft installation.



VARIFOLD SMART IN USE

Sailing

The VARIFOLD SMART has a very low drag with any number of blades. In contrast to conventional folding propellers, the VARIFOLD SMART offers a very stable sailing position and maintains it even at high sailing speeds.

For all courses, whether broad reach, beam reach or close-hauled: the VARIFOLD SMART makes itself scarce, all tacks and gybes work, the sailing characteristics improve significantly, the yacht can be sailed almost like a dinghy.



VARIFOLD SMART in reverse

The VARIFOLD SMART opens reliably in reverse due to its hydrodynamics and unique blade design. The reverse thrust is significantly better than that of conventional folding propellers.

VARIFOLD SMART in forward

Most folding propellers tend to be noisy and vibrate a lot, a problem that can increase with higher engine power. If your yacht has an engine from 6 to 500 hp, we have a VARIFOLD for you that ensures quiet vibration-free running under engine power.

However, our VARIFOLD SMART is available for you as a 2- and 3-blade up to 40 hp, while the VARIFOLD CRUISE is available for you as a 3- and 4-blade for all other powers up to 500 hp.

OPENING TECHNOLOGY WITH A DIFFERENCE



The unique opening technology of the VARIFOLD SMART will convince you. In addition to centrifugal force, this folding propeller also opens via the torque of the shaft, resulting in a particularly smooth and reliable opening. This specially curved blade profile ensures very high thrust as well as quiet and smooth propeller running.

Safety on board through perfect technology:

- + Perfect blade design
- + Impact-absorbing buffers at the blade opening
- + Robust Nibral Bronze guarantees durability
- + Optimised modern production through robot-assisted CNC technology in the machining and grinding shop
- + MRI quality-tested



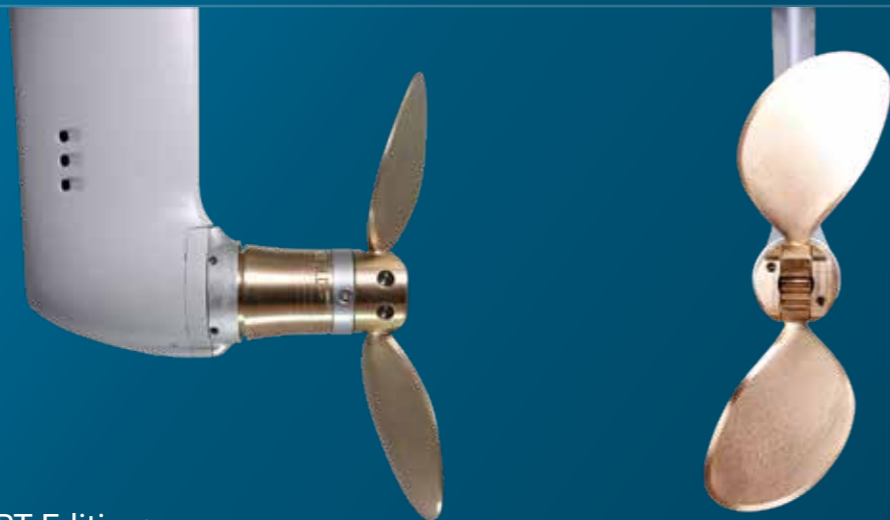
"We installed a VARIFOLD SMART 3 blades with smaller radius, folding, with a new blade design and built in high strength NIBRAL Alloy material. Which is much stronger and especially certified for ice regions. No more noises, vibrations, soft running, Makoré passed from 6,5 kn to 7,3 kn at cruising speed,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

Fabrice and Isabelle, circumnavigators with the Makoré II



VARIFOLD SMART

A charmer due to its compact small size. Available with 2 or 3 blades for optimised sailing with fun and effective smooth motoring. The saildrive hub contains hard-wearing rubber buffers which fit firmly inside special milled outcut recesses inside the hub. This ensures that the propeller starts smoothly and the saildrive is reliably protected without the possibility that the inner damping buffers coming loose – the best technology for the longevity of the system.



The SMART Edition:

Ideal for price-conscious owners of small series yachts with engine installations from 6 to 40 hp. Available as 2- and 3-blade version for either saildrive or shaft drive.



VARIFOLD CRUISE THE WHISPERING FOLDING PROPELLER

One for owners who value comfort! The VARIFOLD CRUISE promises fun sailing thanks to a successful flow profile when folding for a perfect sailing speed and thus optimum Etmale. Arrive faster with pleasure and win! Use the time for a shore excursion or dinner in the next harbour or just be a nose ahead in the next race!

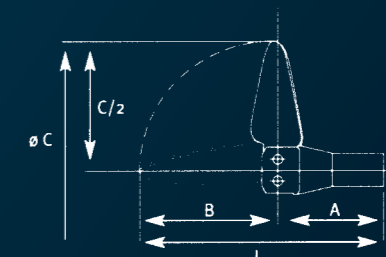


VARIFOLD CRUISE stands for safety and comfort on board. Comfort while sailing as well as in the harbour during manoeuvres. Not to mention the good thrust and the whisper-quiet running of the blades when the engines are running. One that rounds off the sailing experience all the way.

Awarded as the "whispering folding propeller" in 2005 with a 4-blade installation under a Baltic Yacht 147.

Der VARIFOLD CRUISE:

Ideal for owners who want to be one step ahead. Optimal for series yachts with engine installations from 40 up to 500 hp. Available as 3- or 4-blade version for either saildrive or shaft drive.



The VARI-family



VARIPROP
FEATHERING PROPELLERS



VARIPRFILE
Feathering Propeller



VARIFOLD
FOLDING PROPELLERS

VARIFOLD
FOLDING PROPELLERS

**ALL SPARE PARTS
LIKE ANODES,
BUFFERS,
SCREWS OR
OTHER PARTS FOR YOUR
VARIFOLD CAN BE ORDERED
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