

VARIPROP^{GP}

FEATHERING PROPELLERS

SAILING WITHOUT BRAKES

Experience Grand Performance Made in Germany

Photo: Ekkhard Erben



A PRODUCT OF

SPW GmbH
SAIL PROPELLER- UND WELLENBAU

THE VARIPROP LINEUP



HOW DOES THE VARIPROP WORK?

Outstanding sailing performance:

- + Since the blades automatically feather into the sailing position due to the water flow when the engine is off, speed under sail **increases by 15 to 20%**.
- + The yacht sails **significantly closer to the wind, and the rudder is much more stable, as no unfavorable propeller turbulence** forms and continues at the rudder.

Best performance under engine in harbour manoeuvres - forward and reverse

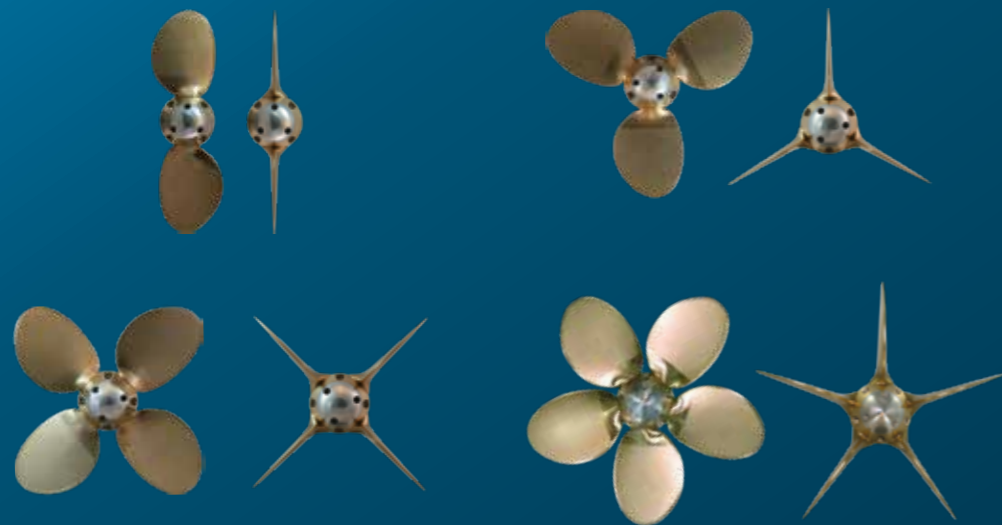
- + When shifting into forward or reverse, the blades each rotate 180°. This ensures that both the leading edge and the pitch are optimal, **and the efficiency for manoeuvring in both directions is the same, without any troublesome propeller walk!** Upon request, we can also adjust the propeller walk for you.
- + The **improved stopping power** provides significantly **more control and ease** during manoeuvres and docking – even with small crews in tight harbours or when mooring yachts.

DISCOVER HOW THE VARIPROP WORKS HERE:



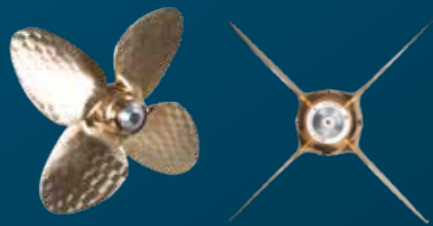
www.youtube.com/
@spwgmbhgermany

VARIPROP GP



GP as in Grand Performance: or as in Gawn Profile – the GP line is an enhancement of the world-renowned VARIPROP types. It is geared towards maximum performance.

VARIPROP XLS



XLS = EXTRA LARGE AND EXTRA STRONG:

Special requirements call for special solutions – XLS probably is the best automatic feathering propeller for tall ships and super yachts worldwide.

VARIPROP AN IDEAL CHOICE FOR ALL SAILING VESSELS:

- + **Saildrive;**
- + **Shaft installations;**
- + **Diesel drives;**
- + **Electric drives (can be used for recharging batteries)**
- + **or other alternative propulsion types.**

PLEASE CONTACT US.



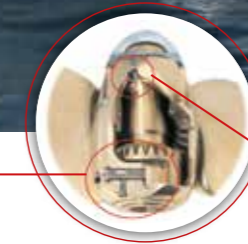
HIGH-END PROPELLER WITH HISTORY

Every success story starts with a future-oriented idea: SPW aimed to design a user-friendly, high-quality feathering propeller with blades that feather easily into the sailing position. This was more than 35 years ago. Meanwhile, the VARIPROP has been developed to be one of the most modern propellers of its kind through continuous innovations by the SPW engineers.

Our motivation: What are the best sailing profiles for when the aerofoil shape does not continue under water? The VARIPROP blades automatically balance themselves into the position with the least drag. This is what creates optimal sailing characteristics for your yacht.

Sailing is perfected by the VARIPROP!

Photo: Ekkehard Schüssler



External pitch adjustment (patented)

SoftStop™ Shock Absorber

VARIPROP: SIMPLY THE FINEST FEATHERING PROPELLER IN THE WORLD

Precision engineering: Superb German custom work instead of mass fabrication.

Every manufacturing process begins with a sophisticated 3D CAD design by SPW chief developer Jörg Adamczyk. State-of-the-art models for the foundries are created from the 3D design using 5-axis milling centers. The result is perfect Ni-bral bronze blanks for our propeller blades.

This is followed by state-of-the-art technology by SPW GmbH using computer-controlled CNC turning and milling technology.

Before SPW assembles the propellers, the VARIPROP GP blades are measured by precise laser measuring technology and precisely machined using robot technology. Only then are our propeller components ready for the final assembly.

Our guarantee: The assembly is done according to your individual order. Every VARIPROP is specifically calculated and manufactured for each customer and is then dynamically balanced by machine.

Quality checked with MRI and DNV (formerly DNV-GL) type approval.

VARIPROP: Absolutely vibration-free! Absolutely great!

Individual Calculation for Your Yacht

A good propeller is only as good as its design! Propeller technology is a true supreme discipline in shipbuilding, which requires a lot of experience. Our sales staff, all of them passionate water sports enthusiasts, have in-depth know-how and practical experience.

Patented Pitch Control

Forward and reverse pitches can be changed independently of one another in just seconds, even underwater. This allows custom fine tuning according to your boating habits. In order to optimise pitch, you do not need to disassemble your VARIPROP. This can be done while the propeller is mounted on your boat. Comprehensive instructions and necessary tools are provided with every VARIPROP.

SoftStop™ Shock Absorber

A shock absorbing multidisc brake (patented) built into the VARIPROP hub reduces unpleasant shifting noises and protects the propeller from wear.

Note: Not in all models, see propeller types and dimensions..

High-Strength NiBrAl Bronze

NiBrAl bronze is the best material for propeller production. In commercial shipping it is also known as ice-class material. This alloy has excellent wear resistance, which is why our VARIPROP feathering propellers are made of NiBrAl bronze.

Pitch setting is done by SPW

Your VARIPROP is delivered ready for use.

All that is left for you to do is unpack, install and enjoy sailing.



Foto: Elke Timmermann



GP = GRAND PERFORMANCE



SPW manager Claudia Adamczyk on board of the "Miss Sophie": Mrs Adamczyk took the chance to test the VARIPROP GP herself. The propeller surpassed expectations by far on a sailing trip with her husband and chief developer Jörg Adamczyk.

22. Hansecup 2019
with the friendly support
of HVG
Hanse (Deutschland)
Vertriebs GmbH & Co. KG
Photos: Thomas Lange



Globally unique with GAWN blade profile: With the VARIPROP Grand Performance we present a new generation of automatic feathering propellers for sailing yachts.

It is possible to decrease the average fuel consumption by up to 10% due to higher thrust, depending on the number of propeller blades.

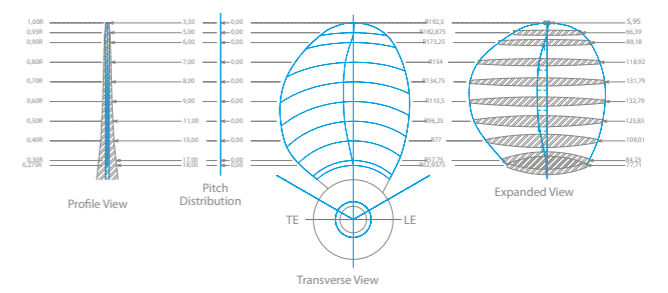
The symmetric high-tech GAWN blade profile is primarily used for high performance fixed pitch propellers in motor boats, for rudder profiles, as well as in the aviation industry. From now on, it can also be found in the new generation of the VARIPROP GP.

Or the other way around: The VARIPROP GP allows you to achieve a longer 24-hour-run cruising distance. **This is climate friendly: Lower fuel consumption means less CO₂ emissions!**

Thanks to the GAWN profile, the VARIPROP GP persuades with smooth, energy-efficient running.

Sail faster and experience precise maneuvers - for a carefree trip from start to finish.

Please contact us – we will be happy to advise, which model is the perfect one for your boat and for your needs.



The innovative Gawn blade profile

YOUR VERY OWN ALL-ROUNDER



The Lagoon 40 Catamaran
Photo: Jürgen Vogel



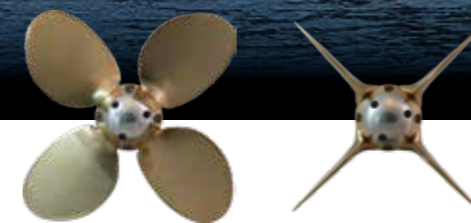
Variprop GP 2-Blade For Racers and Cruisers

- + For smaller sailing yachts with an engine power of 6-40 kW / 8-50 HP.
- + Very low drag, due to the number of blades.
- + Outstanding manoeuvrability, since each blade self-adjusts to the optimum pitch in reverse gear..



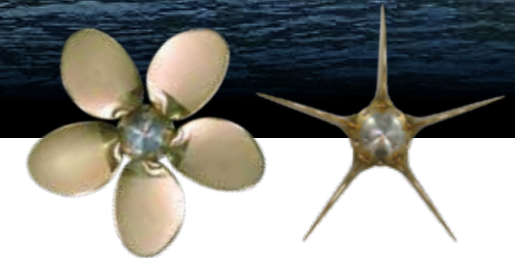
Variprop GP 3-Blade For Regatta and Cruising Sailors

- + Smooth running, optimal standard propeller for every cruising yacht. The third blade achieves stable running characteristics while motoring and high thrust against rough seas.
- + Very low drag.
- + Also ideal for regatta and cruising sailors, the perfect all-rounder
- + Just like the 2-blade, the 3-blade version makes for excellent manoeuvring. The third blade offers more confidence in narrow harbours or when mooring.



VARIPROP GP 4-Blade Pure Power for Offshore Sailors

- + Highest comfort on board and reliability in all kinds of weather! Very high thrust and smooth running even with the strain of heavy weather zones. The fourth blade minimises blade pressure and cavitation at the propeller blade with a greater engine output.
- + Very good sailing properties due to low drag.
- + Perfection of manoeuvres. This ensures a successful outcome of every harbour manoeuvre even in the most adverse wind conditions.
- + Well suited for installations with limited space



VARIPROP GP 5-Blade Pure Power for Offshore Sailors

- + Smooth running, optimal standard propeller for every cruising yacht.
- + Excellent thrust values in both forward and reverse
- + The VARIPROP GP 5-blade performs exemplary in every aspect. When it comes to harbor manoeuvres, there is nothing comparable in this propeller category, especially in tight harbours where the excellent handling offers huge advantages.
- + Very good sailing characteristics: thanks to the stable sailing position of the Gawn-profile blades, the 5-blade propeller also achieves very low drag
- + Well suited for installations with limited space

The installation was super easy and smooth, everything fit perfectly. When motoring, we use only one drive whenever possible. It has become clear that this now delivers more power, meaning the second drive needs to be engaged later than before. When sailing, the performance is fantastic! The biggest difference is noticeable when sailing close to the wind. The drift is much less compared to before, and we can sail closer to the wind than ever before. Ideal for a catamaran. Our expectations were fully met and even exceeded. We are really very satisfied and happy to have chosen the Variprops (also in combination with the rope cutters)!
Jürgen Vogel, Owner of a Lagoon 40 Catamaran

ALL PROPELLER TYPES AND DIMENSIONS CAN BE FOUND HERE:

<https://spw-gmbh.de/en/support-specs/technical-data-for-of-props/variprop>



BOATS USING THE VARIPROP

ALLURES
AMEL
BALTIC
BAVARIA
BENETEAU
BIGA
BRISTOL
C&C YACHTS
CATALINA
COMFORTINA
COMPROMIS
CONTESSA
CONTEST

CS YACHTS
DEHLER
DUFOUR
ELAN
ETAP
FAURBY
FEELING
FIRST
GARCIA
GRAND SOLEIL
GRANADA
HANSE
HALBERG RASSY

HUNTER
ISLAND PACKET
J-BOATS
JEANNEAU
LAGOON
LUFFE
6 KR KREUZER
MALÖ
MAXI
MOODY
MORGAN
NAJAD
NAUTICAT

NONSUCH
OE
OVNI
PERRY CATAMARANS
REINKE
SALONA
SCHIONNING CATAMARANS
SIRIUS
SOUTHERLY
SPARKMAN AND STEVENS
SUNBEAM
SUNREEF CATAMARANS
SWAN

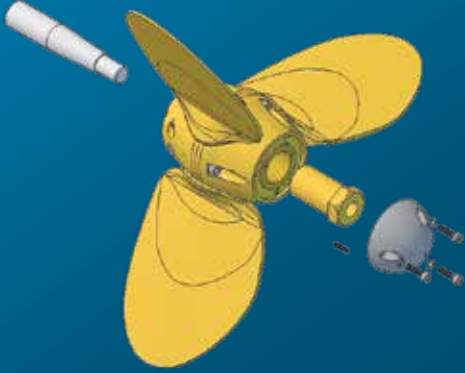
SYDNEY YACHTS
TARTAN
TASMAN
VAN DER STADT
VANCOUVER
VINDÖ
WAUQUIEZ
X-YACHTS
ZEESBOOTE

... UND VIELE MEHR

* 22. Hansecup 2019
with the friendly support
of HVG
Hanse (Deutschland)
Vertriebs GmbH & Co. KG
Photos: Thomas Lange

Photo: Wilco Schipper





Easy Installation:

The VARIPROP is mounted on the taper of your shaft or saildrive spline just like a fixed pitch propeller. Fasten the propeller with the corresponding prop nut, tighten the nut and secure it with a set screw. Glue the prop nut into the thread with the supplied Loctite. Afterwards, install the zinc anode. **Done.**

