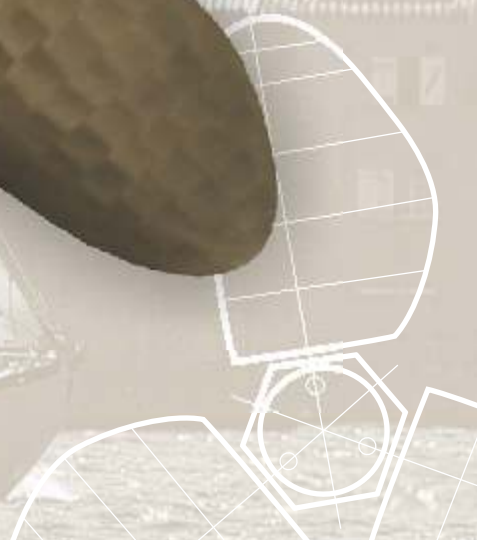


XLS VARIPROP[®]

Feathering Propeller

extra large and extra strong
simply the finest Automatic Feathering Sailing Propeller in the World



The idea was to develop a superior feathering propeller that was user-friendly. We intended to design a feathering propeller that was extremely efficient, had reliable reversibility and eliminated all the problems experienced with feathering propellers of the time. This was 20 years ago...

For modern sailing yachts with very high engine output our designer developed, 15 years ago, a unique feathering propeller... the XLS-VARIPROP.

Today, after 20 years of evolution and improvements in our quest for perfection, we can now offer one of the most modern feathering propeller found anywhere in the world.

Unique Features of VARIPROP

- Independently adjustable external pitch control (patented). Forward and Reverse pitches can be changed in just seconds even underwater. (available for DF160, DF180, DF190, DF210, DF230 and DF260)

Benefits:

- custom fine tuning of reverse thrust vs. prop-walk
- VARIPROP allows you to customize that balance for optimum control, maneuverability and safety
- Independent fine tuning of forward thrust means that VARIPROP delivers the best possible performance (speed, thrust, fuel economy) in forward without compromising reverse performance... and vice versa

- Integrated shock absorber (patented) build into the VARIPROP hub (available for DF160, DF180, DF190, DF210, DF230 and DF260)

Benefits:

- dramatically reduced shock loads on gearbox and drive train, permits shifting at higher speeds without damage, preserves preset pitches by eliminating hard limit stop impacts
- the entire drive train benefits: longer cutlass bearing life, minimized wear on gearbox, clutch plate, bearings

- German precision engineering, robustness and long life

Benefits:

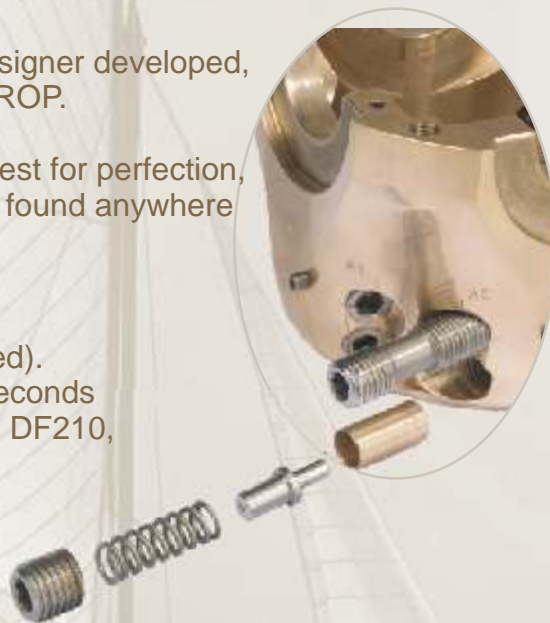
- All XLS-VARIPROP are sealed to avoid loss of grease from the housing during operation. This ensures long life of the mechanical parts and also substantially extends service intervals.
- Made following the ISO 9001 quality standard
- Custom made propeller vs. mass-produced competitors every VARIPROP is built to order-consistently 100% up to stringent specifications for reliable, smooth and efficient operation
- gears are 35% - 50% larger and stronger than competing props for substantially improved service life.

- Comes fully assembled

Benefits:

- VARIPROP mounts on your shaft just like a solid propeller. No disassembly.

With the VARIPROP DF280 and DF310, however, the first and second features are preset by our company and cannot be changed by the customer.



Through VARIPROP, disruptive propeller turbulence vanishes and a substantially enhanced rudder effect is achieved that is reflected in the speed of your yacht. Moreover, the bothersome noises of a rotating shaft are eliminated. This, in turn, ensures that the stern gear assembly has a long service life.

- Nero-zero sailing drag
 - Powerful thrust in head seas
 - Incredible control in reverse
 - The ability to put your transom exactly where you want it without fighting prop walk and backing up straight.
-
- Material: High-strength material Nibral for long life. The XLS-VARIPROP meets the requirements of the merchant marine (see "Bruno Iling")



A Itair

Length: 39 m
Weight: 161 to
Engine: Gardner, 275 HP

3 blade VARIPROP DF 210
Diameter: 34"
Pitch: 25" / 22"



Orion

Length: 28 m
Weight: 235 to
Engine: 2 off hydraulic engines,
2x 245 HP (two propellers)
4 blade VARIPROP DF 210
Diameter: 31"
Pitch: 18,5" / 16"



Bruno Iling

Length: 48 m
Weight: 493 to
Engine: hydraulic engine, 200 HP

3 blade VARIPROP DF 230
Diameter: 30"
Pitch: 23" / 21"



Shabab Oman

Length: 37 m
Weight: 500 to
Engine: 2 off Caterpillar,
2x 250 HP (two propellers)
3 blade VARIPROP DF 230
Diameter: 40"
Pitch: 28" / 26"





Eleonora

Length: 49 m

Weight: 213 to

Engine: Baudouin, 460 HP

3 blade VARIPROP DF 280

Diameter: 48"

Pitch: 18,5" / 16"

Every propeller must be tailored to the size of the ship and the power output of the engine. We will provide you with propeller calculations and a recommendation on which VARIPROP is the right one for you.

The XLS-VARIPROP range includes:

The 3 blades DF 160, DF 180, DF 230 and DF 280 and the 4 blades DF 190, DF 210, DF 260 and DF 310, diameter from 28" to 50" for a maximum output of up to 550hp, both for shaft and for saildrive units.



The smaller VARIPROP range includes:

The 2 blades VARIPROP DF 80 and DF 107, diameter from 12" to 20", for a maximum output of up to 80hp, both for shaft and for saildrive units.

The 3 and 4 blades VARIPROP DF 80, DF 107, DF 112, DF 128 and DF 140, diameter from 12" to 32", for a maximum output of up to 180hp, both for shaft and for saildrive units.

For more detailed Information about our VARIPROP propellers, with all dimensions, please have a look on our homepage www.spw-gmbh.de

Designed by **SPW**
VARIPROP
XLS

Manufactured and marketed by:

SPW GmbH
SAIL PROPELLER- UND WELLENBAU

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„It's over to you now
we'll be delighted to answer your questions:“

Made in Germany