

Marine experience
Custom projects for ocean cruising or racing maxi-yachhs require high tech means: computerised design, technical knowledge in metallurgy and composite materials, and a
constant updated data-abse constant updated data-base. In a logic of sustainable development, our team gives full priority to tirst class customer service,
technical solutions crossing innovation and reliability as well as techncical solvitions crossing innovation and reliability
effective shipping management all around the globe.


## $5 \cup M M A R$

Production \& research
Maxi-Yachts
Maxi Racing
Structural furling system
Terminal options
Terminal options
Carbon furlers
Carbon furlers
Mainsail locks
External \& internal halyard locks
External \& internal halyard locks
Code zero \& Gennaker furlers \& options Code zero \& Gennaker furlers \& options Options \& Special fittings


Quality Production
$>$ Wide production capacity within our group; > Anodizing baths among the longest in the world (Sparcraft US) and Europe (Sparcraff);
Electrostatic powder painting box
(Sparcraft-US);
Plasma CNC cutting machine;
CNC and traditional machining
Complementary production means in plastic processing and hot forging (affiliate company of Wichard Group).


Marine experience
$>$ Experience of over 30 years in marine industry;
$>$ An in-depth study of needs and a rigorous management of the specifications;
A synergy of means in computerised design and production;
Human resources based on skills and dynamism;
$>$ Products tested in extreme conditions by the most experienced ocean skippers.

Innovative
$>$ Design and conception of new tailor made equipment with higher performance: load, resistance, ment with higher
weight, handling.
weight, handling...
$>$ Measurement and simulation of all the parame $>$ Measurement and simulation of all the pc ters our research and development means; plementary cooperation with our partners.


> Experience of over 30 years in manufacturing furling systems has raised Facnor to a high-level of expertise. Its focus on R\&D and its close partnership with ocean or maxi yacht skippers has pushed Facnor to become even more specialized in tailor made solutions.
$>$ From its own experience gained in ocean races, Facnor has been offering Maxi yacht skippers tailor made equipment. The high level of specialisation on these projects, must be carefully carried out: "Haute couture Furlers for upper-level cruising"
$>$ Facnor is well-known for its reliable and sturdy products. This led it to participate in some outstanding architectural projects. feet long).


 Maxi $140^{\prime}$ Mari-Cha IV, Maxi Open 115' Maiden Hong Kong
Maxi $85^{\prime}$ Winquest Maxi $85^{\prime}$ Wing
Perinavi $197^{\prime}$, Sarrissa 142 ' Bill Trip design Schooner $152^{\prime}$ Windrose, Schooner $203^{\prime}$ Athos, Superyacht $156^{\prime}$ Hyperion, Wally $80^{\prime}$ and $82^{\prime}$ Wally $94^{\prime}$ Y $3 \mathrm{~K}\left(94^{\prime}\right)$, Wally $100^{\prime}$ Magic Carpet 2 , Wally $100^{\prime}$ Dark Shadow, Wally 100'Alexia, Wally $107^{\prime}$ Kenora \& Nariida


> Facenor has worked on many different maxi racing sailboats projects, such as: VOR 70, Open 60, maxi trimarans (Groupama and Banque Populaire), Mega-yachits and today the MOD70. Our partherships with skipe wis lit chel Desioyeaux cre st pers line cheI Desioyeaux are set up on long-term basis. We have successfully gained the irust of our customers thanks to our res-) ponsiveness as well as our capacity in quality products. Facnor has become the official supplier of the MOD70 for
 furlers and halyard locks.




The mainsail locks reduce the mast compression, particularly on maxi-yachts on which working loads are tremendously high. Used on the MOD $70^{\prime}$, the Facnor systems reliability has undoubtedly been
proved. They can be adapted on existing tracks.

## STURDINESS

$>$ Used for multihulls (high loads mainsail)
> Made in different materials (fitanium,
stainless steel, aluminium,...)
> Customized tracks adapted to your profiles
Functionning: The package includes the track sections with the locking device. They would be fitted between existing traa
on the mast (from head sail to each reef points).

| Parameters / Lock model (= safe working load) | 6 Tm | $8-10 \mathrm{~T}_{\text {sm }}$ | $\begin{aligned} & 16-20 \mathrm{Tmil} \\ & \text { and more } \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| Track widh | 26 mm | 30.32 mm | on request |
| Adaptation on tracks | Antal, Harken, other | Antal, Harken, other | on request |

Full package: The hook is central and is caught in the Facnor specific


## $>$ Reliable mechanism



Halyard locks improve flying sail use (Staysail/Gennaker) saving weight and reducing mast compression loads. This simple and efficient device makes the halyard locking/unlocking easy and safe. The Facnor lock tremendously eases the handling of
flying forestays ( 2 -to-1 no longer required). The halyard lock can be fitted either inside or outside the mast.

Optimum integration into the mast
device fitted from outside the mast

- mast cut accurately using a iig;
thanks to a clever design, the integrated part that takes the sail
$>$ Various applications
Gennaker or code zero;
Gennaker or code zero,
Staysail fitted on textile forestay;
Staysail fitted on furler with flying
$>$ Technical features:


## Lock model

Lock model
(= working load)




. R EACTIVITY
$>$ Integrated manufacturing means: From the design office to the CNC machining he design office to the CNC machining ring gives perfect and quick results;
> From our experience, we know that the race starts before the starting line.
> A highly efficient after sales service
\& TAILOR MADE
Spherical chain plate ${ }^{\text {2-tol block }}$ Friction block
Facnor has a large conception and production capacity
thanks to a Design team and CNC machining facilities
and
Lashing thimbles, blocks, padeyes, special pins;
Continuous line drum \& swivel covers;
$>$ Diabolos, swivels and special pins for lashing;
$>$ Thimble fitting according to customer's cable;
$>$ Special fittings on request.
 Thanks to conceppion and produ
capacity, this structural furler
capacity, this structural furler
(two parts wheel) has been delivered at the second step of the Volvo ocean race in only two weeks.

## Custom High Load blocks

ABN AMRO : an example of the Facnor reactivity



YOUR CONTACT facnor Sales Manager:

