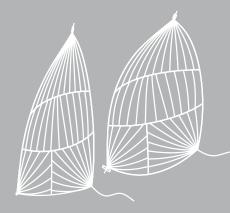
# CODE ZERO, GENNAKER & ASYMMETRIC SPINNAKER





In sailing races each second saved while handling sails is important. A long experience in supplying top high quality racing Gennaker furlers has led Facnor to be a reliable partner for the fastest sailing boats. Facnor has kept the same innovative spirit in developping a full range of furlers: the FX for Code zero/Gennakers and the Asym-FX for the asymmetric Spinnakers. As a complementary equipment to flying sails, the Sparcraft innovative bowsprit makes cruising easier.





**BOWSPRITS** 



AFX ASYMMETRIC SPINNAKER
FURLERS P40-42



EMMAGASINEURS

## Sailing fast and so



The widely installed FX range makes easy to hoist quickly and safely Gennaker or Code 0. Removable furling line and quick fastenings contribute to an unequalled ease of use. The neat design gives lightness to the high resistance mechanisms: the FX furlers let you benefit from the race developed technology for a more comfortable cruising.

## FX Flying sail furlers: Comfortable sailing

ike the structural furler, the Code zero & Gennaker furler is an in/out system that does not allow reefing of the sail. The anti-twist rope is captive within the sail luff tape. The sail head and tack are seized to thimbles. These are fixed to the swivel and the drum with quick-release pins. The advantage is the quick installation. The furled sail can quickly be stored after use. With the Code zero & Gennaker furler, no more knots with the Spinnaker around the forestay: in light wind the Code zero & Gennaker can be quickly hoisted and unfurled. This is perfect when you are sailing before the wind: with Facnor the performance is worry free

#### SAFETY PIN

to release or secure the thimble (drum & swivel)\*

> REMOVABLE FURLING LINE

\* for FX 2500, 4500 & 7000 models



"FURLING LINE TIGHTEN & ROPE..."

Christian Chardonnal Skipper du Class 40 Neurodon

Then racing, we attach a piece of rope at the clew of the Gennaker that the foredeck crew member easily grabs in order to quickly jibe. When sailing single handed we recommend to keep the reefing line under tension so

that the sail does not furl out without control".

blog: http://lesloustikspourleneurodon.blogspot.com

web: http://www. neurodon.com

#### **A STRONG ONE-BLOCK DRUM**

The main body of the drum is made of one aluminium block and is CNC machined. (sturdier than a casting part).





This system eliminates furling line overrides.

#### QUICK FASTENING DEVICE

FX furlers ares fitted with quick fastening device (see p.36).





#### **SWIVEL**

Available in different versions (ex. Two-to-one version, advantage: optimal halyard tension)

#### **THIMBLE**

- Stainless steel for FX2500/4500 models
- Aluminium for FX7000/12000/20000 models (options p. 38)

#### **TORQUE ROPE**

It transfers efficiently the furling rotation from the drum to the swivel. The torque rope is captive within the sail luff tape.

(supplied on request)

## FACNOR ADVANTAGES

CODE O AND GENNAKER FURLER

- Handy: removable furling line without any mechanical operation, possibility to leave the furling line fitted alongside the deck
  - Lightness : optimized system and ultracompact
  - Easily installed and stored (the continuous

drum is fitted with quick-release-pin fastenings).

- Sturdiness: strong one-block drum
- Maintenance free : high protection of the mechanisms
- Stainless steel guide insures a smooth and perfect run of the furling line
- Continuous line drum: low profile design (just above deck), i.e. a maximum sail luff
- Design neat and purified on all the range
- Large range of fitting options : 2-to-1 swivel, special

textile shackles, Thimble,... (See page 38)











Thanks to a clever innovation, the continuous furling line can be quickly removed without any complication. This special feature offers the advantage that the furling line can remain on the deck for further use. There is no ed to remove the stanchion blocks. Just remove the

sail.

rubber ring to allow the continuous line furler





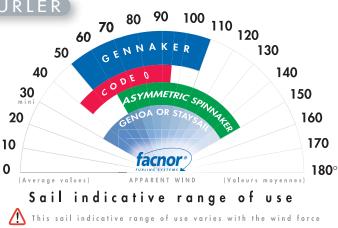


USE CONDITIONS OF THE FURLER



#### Use conditions:

The use range of the sails as shown on the diagram against varies with the force of the wind. We can mainly bear in mind that the FX furlers are better adapted for use with flying headsails between beam and broad reach (i.e. Code Zero and Gennaker). The complementary use with closer reach headsails is possible, however,



under certain conditions (see p. 37). Please contact the closest Facnor agent for further advices.

#### Installation of the Code zero and Gennaker furler:

the short sequence above shows how easily the Gennaker furler is installed:

EASYINSTALLATIONONBOARD

- Lie the Gennaker furled on the deck, fit the bottom thimble onto the drum (fig 1&2);
- Fit the upper thimble onto the swivel (fig 3), and adjust the bowsprit (fig 4);
- Hoist (fig 5), unfurl while controlling the sheet (fig 6). All done!

Nota: always keep the reefing line under tension and fit a line stopper. Avoid to keep the sail up too long.

#### FURLING LINE AND FASTENING DEVICES

**Removing the furling line:** "as easy as abc": Thanks to a clever innovation, the continuous furling line can be quickly removed without any complication. This special feature offers the advantage that the furling line can remain on the deck for further use. There is no need to remove

the stanchion blocks. Just remove the furler and the furled sail.

**Easy installed and stored:** The continuous drum is fitted with quick-release-pin fastenings (snap shackles or special textile shackles) that make for quick and easy the installation and removal of the Gennaker or Code 0.

Quick - release - pin fastenings: The sail can be removed from the furler in one "click". Fitted with:

Push-pin (FX 12 000 & FX 20 000 models)

New safety-clip fastening (FX 2500, 4500, & 7000 models) G-ring (FX 900 & 1500 models)

### Easy change and re-use of continuous line furler

As it is very simple to remove the sail from the furler and to fit the block option on to the swivel, the Gennaker can be quickly changed for the staysail if needed\*. Furthermore, it is also easy to store the sail and clean the furler mechanism.

\* provided that the loads are equivalent for both sails



#### SAILOR TIP

Bernard de Ravignan Nantes Shipshandler

Tighten well the Gennaker luff before furling and secure

the reefing line so that the sail does not furl out without any control.".





#### THE STANDARD CODE 0 AND GENNAKER FURLER (DRUM) FXT

The Standard Code zero & gennaker furler (FXT) includes a drum as on the classic headsail furling systems. The drum is fitted with a shackle or a jaw at the top (tack) and with a snap shackle at the bottom (deck fixing). It is quickly installed and removed after use. Able to support high loads, the "SDG STD" model helps to furl easily a Gennaker or a flying sail. The mechanism of the drum and the swivel are made of aluminium and fitted with steel bearings protected by waterproof joints (maintenance free). An alternative solution for users who prefer a discontinuous furling line.

The main criteria to select the FXT model is the loads of the sail (see below):

FXT MODEL	FXT 4500	FXT 7000	FXT CUSTOM	
Boat length	9,5 à 16 31' to 55'	+ 16 + 55'		
Max. sail area	100 m² 1073 ft²	200 m² 2147 ff²	on request	
Safe Working Load*	4 500 Kg 9921 lbs	7 000 Kg 15432 lbs		



- \* The S.W.L. is the maximum safe working load over which distortions of the furler can appear. This load is approx. 50% of the breaking load (depending on models)
- The swivel and the drum are fitted with the same bearings (top shackle for halyard fitting).

#### THE GENNAKER CONTINUOUS LINE FURLER **FX**

The continuous line Code zero & gennaker furler (FX) are made of two main components, one flat continuous line drum and one swivel. This model eliminates the override of the furling line (no overlapping round the drum). The low profile design of the drum allows a maximum luft and the large diameter gives more furling power. It is half weight of a standard Gennaker furler. The new opening guide makes the Fx furler easier to use. Facnor offers a wide range of gennaker furlers suitable from 6.50 up to the mega-yachts. Facnor, as originator of Gennaker continuous line furlers, has the longest experience in this type of products.

The main criteria to select the FX model is the loads of the sail (see below):

FX MODEL	FX 900	FX 1500	FX 2500	FX 4500	FX 7000	FX 12000	FX 20000
Boat length m feet	6 to 10,5 m	10 to 12 m	12 to 14 m	13 to 16 m	16 to 20 m	+ 20 m	+ 25 m
	20' to 30'	30' to 40'	40' to 45'	42' to 55'	55' to 70'	+ 70'	+ 82'
Sail area advised	30 m²	55 m²	80 m²	140 m <sup>2</sup>	250 m <sup>2</sup>	350 m <sup>2</sup>	+ 500 m <sup>2</sup>
	322 ft²	590 ft²	861 ft²	1500 ft <sup>2</sup>	2690 ft <sup>2</sup>	3770 ft <sup>2</sup>	+ 5380 ft <sup>2</sup>
Safe Working	900 kg	1,5 ton	2,5 tons	4,5 tons	7 tons	12 tons	20 tons
Load*	1984 lbs	3306 lbs	5511 lbs	9920 lbs	15 432 lbs	26 455 lbs	44 100 lbs

<sup>\*</sup> The S.W.L. is the maximum safe working load over which distortions of the furler can appear. This load is approx. 50% of the breaking load (depending on models)

#### ( STAYSAIL FITTED ON FX FURLERS

A Staysail can be fitted on a FX furler: in this configuration, we recommend to install a 2-to-1 block (halyard better tighten and less tension in the mast). See next page.

The main criteria to select the FX model is the loads of the sail (see below):

FX MODEL	FX 1500	FX 2500	FX 4500	FX 7000	Staysail	
Staysail area maxi. (à titre indicatif )	20 m² 20 ft²	30 m² 20 ft²	50 m² 20 ft²	70 m² 20 ft²	Au delà de 20 mètres, il est forte- ment conseillé de passer en système stockeur (voir p. 29)	
Safe Working Load*	1,5 tons	2,5 tons	4,5 tons	7 tons		

<sup>\*</sup> The S.W.L. is the maximum safe working load over which distortions of the furler can appear. This load is approx. 50% of the breaking load (depending on models)



We remind you that an adapted deck attachment must be installed

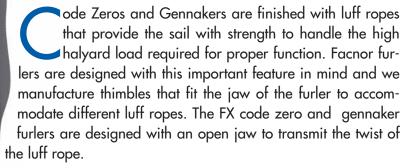


#### CODE ZERO AND GENNAKER FURLERS OPTIONS

Blocks, thimbles, sheaves, pin fastenings

2-to-1 swivel

(Exemple de montage pour une trinquette)



Thimble fig.1

Torque

Rope

Thimble

rep.1

#### The thimbles

Combiné avec une cosse qui épouse parfaitement la chape des emmagasineurs Facnor, le cordage anti-torsion transmet d'autant mieux cet

effet de rotation. Nos cosses supportent aisément les charges importantes.

En fonction du modèle d'emmagasineur et également du style de cordage anti-torsion choisi par le maître voilier, Facnor propose deux modèles (autres modèles sur demande):

cosses standard du FX 2500 au FX 20000

- inox (rep. 1) pour modèles FX2500/4500;

- aluminium pour modèles FX7000/12000/20000; cosses NS latching (rep.2).



Lorsque vous souhaitez disposer d'une tension du câble beaucoup plus importante tout en soulageant la drisse et la boîte à réas, Facnor vous permet d'adapter une poulie sur l'émerillon (ou sous le tambour) ainsi que des émerillons avec des réas intégrés qui garantissent un gain de poids et réduisent l'encombrement de l'ensemble.

Poulie de mouflage

Cosse

rep.1

Cosse

rep.2

Custom

FX 2500 FX 4500 FX 7 000 FX 12 000 FX 20 000

Quick - release - pin fastenings :

FX furlers can be fitted with different quick fastening device : loops, snapshackles, shackles, ...



FX 7 000 FX 12 000 FX 20 000

\ Furling line

#### COVERS FOR CONTINUOUS LINE DRUM AND SWIVELS

**Continuous line drum covers:** The new Facnor FX and Asym FX cover is ideal for protecting your continuous line furlers from deck impacts. The cover is made of padded PVC and assembled with thick and strong trips. Thanks to hook-and-loop fasteners the cover is quickly fitted.

Existent en standard pour les FX & Asym-FX 2500, FX & Asym-FX 4500, FX & Asym-FX 7000 (other model on request).

**Swivel covers :** mêmes propriétés que pour les housses de tambour et P.C. mais avec un élément supplémentaire de sécurité mât et équipier. Existent en standard pour les FX 2500, FX & FXT 4500, FX & FXT 7000.

