



CODE SAIL FURLERS

FX+
design by Facnor

Further to constructive technical exchanges with ocean racers, Facnor has developed a sophisticated range of Code sail furlers : the FX+. A true evolution : light, easy to fit and aesthetic. Fitted on request with a ratchet device securing the furling, locking both clockwise and anti-clockwise (Facnor patent).

The FX+ flying sails furler is an "in/out system".
The anti-twist rope is captive within the sail luff tape.

Various attachment
(option 2-to-1 see page 48)

Anti-impact cover for swivel

in neoprene (delivered)

high-visibility marking

Thimbles
see page 48

+ THAN 25 YEARS OF EXPERIENCE IN GENNAKERS FULERS

- Widely tested & strong mechanisms bodies
- Lightness : ultracompact
- Secured sail connection
- Easy to fit and to adjust with simplified use
- Conversion for asymmetric Spinnaker (see page 36)
- Ratchet system

Drum

- large diameter (torque \nearrow) : for a better furling power
- Drum and swivel, machined from one single piece



Torque rope

More anti-twist is the rope, faster is the revolution (supplied on request).

Secured sail connection Sail / Mechanism

Smooth push spring release device*

+ Captive quick release pin



Easy fitted furling line

NEW!

Stainless steel guide



Furling line



Start and Go Rotation option

drum self-locking device (optional). Fitted with a ratchet (S/s Duplex)



CARBON
LIGHT

Carbon housing

- lighter;
- insures a smooth and perfect run of the furling line (no overriding)

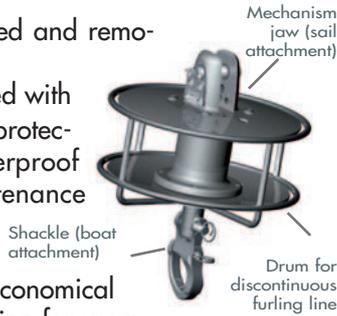
Bottom and top adjustable fastenings (see OPTIONS page)

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FXT FURLERS WITH DRUM

FXT Gennaker & Code Zero furler

- quickly installed and removed after use.
- The FXT is fitted with steel bearings protected by waterproof joints (maintenance free)
- good technical and economical alternative solution for users who prefer a discontinuous furling line.



The main criteria (but not exhaustive) to select the model Gennaker and Code Zero furler model is the loads of the sail (see below) :

| FXT Model | FXT 4500 | FXT 7000 | FXT CUSTOM |
|---|----------------------|----------------------|-------------------|
| Boat length (meters-feet) | 9,5 → 16 m | + 16 m | on request |
| | 31' → 55' | + 55' | |
| Max. sail area (meters ² - feet ²) | 100 m ² | 200 m ² | |
| | 1073 ft ² | 2147 ft ² | |
| Safe Working Load* (tons- lbs) | 4,5 T | 7 T | |
| | 9920 lbs | 15432 lbs | |

* SWL maxi : see note at bottom of page

- The swivel and the drum are fitted with the same bearings (top shackle for halyard fitting).

The Gennaker continuous line furler FX+

are made of one swivel and one flat continuous line drum (maximum luff and no overlapping round the drum).

- carbon house
- half the weight of a standard Gennaker furler.



- **Ratchet system:** Option for FX+1500 → 7000 (retrofit available on most FX+ models)



video FX+

FX+ CONTINUOUS LINE FURLERS

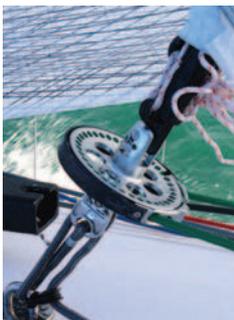
The wide FX range from 16' day boat to 200' mega yachts :

| FX+ Model | FX+ 900 | FX+ 1500 | FX+ 2500 | FX+ 4500 | FX+ 7000 | FX+ 9000 | FX+ 12000 | FX+ 15000 | FX+ 20000 |
|--|---------------------|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|------------------------|
| Boat length (meters-feet) | 6 ↓ 10,5 | 10 ↓ 12 | 12 ↓ 14 | 13 ↓ 16 | 16 ↓ 20 | 21 ↓ 24 | 24 ↓ 30 | + 30 ↓ | |
| | 20 ↓ 30 | 30 ↓ 40 | 40 ↓ 45 | 42 ↓ 55 | 55 ↓ 70 | 70 ↓ 80 | 80 ↓ 100 | + 100 | |
| Furl. line ø (mm) | ø 6 | ø 8 | | ø 10 | | ø 10 std | | ø 12 | |
| Max Gennaker or Code zero area (m² ft²) | 30 m ² | 60 m ² | 100 m ² | 140 m ² | 250 m ² | 350 m ² | 450 m ² | 550 m ² | + 550 m ² |
| | 322 ft ² | 646 ft ² | 1076 ft ² | 1500 ft ² | 2690 ft ² | 3770 ft ² | 4844 ft ² | 5920 ft ² | + 5920 ft ² |
| Safe Working Load* (tons- lbs) | 0,9T | 1,5T | 2,5T | 4,5T | 7T | 9T | 12T | 15T | 20T |
| | 1984 lbs | 3306 lbs | 5511 lbs | 9920 lbs | 15432 lbs | 19842 lbs | 26455 lbs | 33069 lbs | 44100 lbs |
| Ratchet | Not available | Option | Option | Option | Option | Contact us | Contact us | Contact us | Not available |

* SWL maxi : see note at bottom of page

- Leading in Gennaker furler manufacturing Facnor has acquired a long experience on these types of products - tested during ocean races in extremely tough conditions.

Staysail on a FX+ furler :



a Staysail can be fitted on a FX+ furler so that a stormsail can be used according to the weather conditions. In this configuration, we recommend to install a 2-to-1 block (halyard better tighten and less tension

in the mast).

2-to-1 block option :

See options P. 48

STAYSAILS FITTED WITH FX+ FURLERS

| FX+ Model | FX+ 1500 | FX+ 2500 | FX+ 4500 | FX+ 7000 | Structural furler |
|---|---------------------|---------------------|---------------------|---------------------|--|
| Staysail max area indicatives datas (m ² ft ²) | 20 m ² | 30 m ² | 50 m ² | 70 m ² | over 70' boat, it is highly recommended to fit a structural furler (see page 24) |
| | 215 ft ² | 322 ft ² | 538 ft ² | 753 ft ² | |
| Safe Working Load* (tons) | 1,5 T | 2,5 T | 4,5 T | 7 T | |
| | 3306 lbs | 5511 lbs | 9920 lbs | 15432 lbs | |

* The working loads indicated correspond to maximum working loads of the mechanisms only and not the maximum loads of the whole furling system when terminals are included. Under no circumstances should these working loads be exceeded



We remind you that an adapted deck attachment must be installed

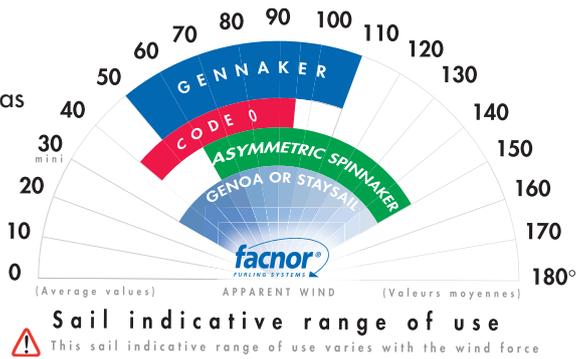
- FX+ for staysails : ideally featted with a locking swivel (see P. 28)



Photo Credit : B. Kolthof / Club Swan

USE CONDITIONS OF THE FX+ FURLER

The **use range** of the sails as shown on the diagram opposite varies with the force of the wind. The complementary use with closer reach headsails is possible, however, under certain conditions (see front page).



Installation of the FX+ furler



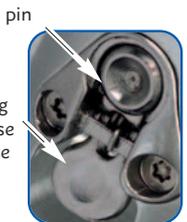
- Lay the furled Gennaker on the deck (fig. 1). Install the furling line round the drum (fig. 2). See below for details;
 - Fasten the upper thimble onto the swivel (fig.3). Attach the drum onto the chain plate or bowsprit (fig. 4). Adjust the bowsprit and secure with a bridle
 - Check that the halyard is clear, hoist the sail (fig 5), tighten and control the sail sheet (fig 6). Ready!
 - Ratchet system OPTION : From a locked position, release the ratchet by operating the drum by rotating (furling in) half a turn. Once released the sail will unfurl easily (see opposite)
- Note: always keep the reefing line under tension and fit a line stopper. Lower the furled sail after use.

FURLING LINE & QUICK FASTENING DEVICE

Installation of the furling line : Easy to install or remove (see opposite).

Easy installed and stored :

- adjustable fastenings : snapshackle (bottom) or shackle (top).
- adapted systems for asymmetric Spinnakers : see "Fast thimble" pages.



Fitted-in and secure sail connection :

- The sail can be removed from the furler in one "click".
- Smooth push spring release device* with captive quick release pin for FX+ models .

Used for different sails :

As it is very simple to disconnect the sail from the furler and to fit a 2-to-1 block on the swivel, the Gennaker can be quickly changed for the staysail if needed*.

* provided that the loads are equivalent for both sails (see front page). Your Facnor agent will advise you on the best possible solution.

REMOVABLE FURLING LINE



New guide



> FX+ instructions





Furling with the ratchet system :



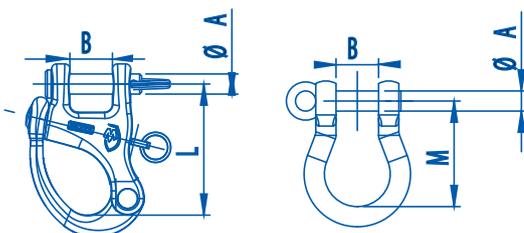
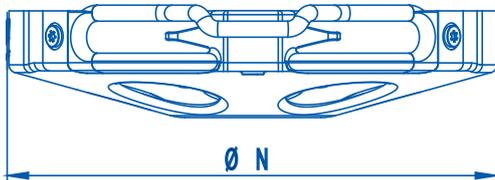
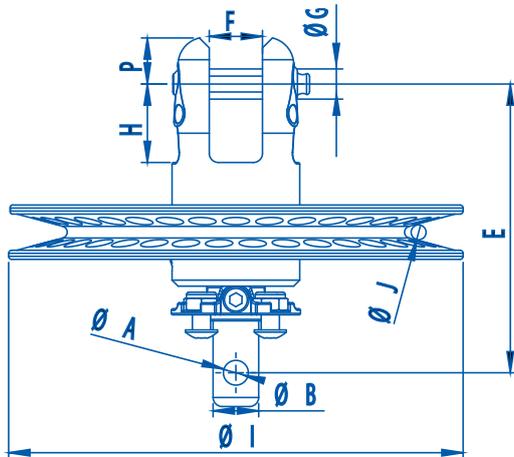
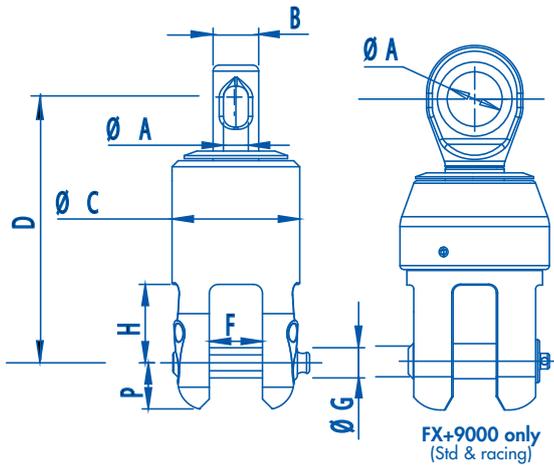
Lay Furling OUT with the ratchet option on.

From a locked position, rotate the drum half a turn (furling in) to release the ratchet lock. Once released the sail will unfurl easily.

Furling IN with the ratchet option on. Start furling in. If you stop at any time and let go of the furling line, the flying sail will be automatically locked, thanks to the ratchet device. Once ready to resume, simply start furling again. The ratchet in the continuous line drum will be automatically activated from the first rotation.



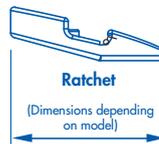
FX+ DIMENSIONS



| Rep. | FX+ 900 | FX+ 1500 | FX+ 2500 | FX+ 4500 | FX+ 7000 | FX+ 9000 Std | FX+ 9000 Racing | FX+ 12000 | FX+ 20000 |
|------------------------------------|-----------------|----------|----------|----------|-------------------------|-------------------------|-----------------|-----------|-----------|
| | Dimensions (mm) | | | | | | | | |
| Ø A | 6 | 8 | 10 | 12 | 28 | 28 | 14 | 20 | |
| Ø B | 12 | 15 | 20 | 25 | 30 | | 30 | 40 | |
| Ø C | 34 | 42 | 49,5 | 60 | 76 | | 76 | 86 | |
| D | 66 | 88 | 100 | 114 | 135 | 135 | 117 | 153 | |
| E | 79 | 96 | 108 | 121 | 137 | | 130 | 161 | |
| F | 15 | 17,5 | 19 | 26 | 26 | 22 | 22 | 29 | |
| Ø G | 8 | 10 | 12 | 14 | 16 | 18 | 18 | 20 | |
| H | 22 | 26 | 33 | 39 | 40 | 32 | 43,5 | 50 | |
| I | 85 | 109 | 149 | 170 | 207 | 224 | | 248 | 298 |
| J | 6 | 8 | 8 | 10 | 10 | 10 STD (Ø 8 acceptable) | | | 12 |
| L | 40 | 54 | 65 | 49 (SSH) | 62 (SSH - solid sheave) | | | - | |
| M | 35 | 41 | 52 | 62 | 100 (textile shackle) | | | - | |
| Ø N | 95 | 121,5 | 161 | 181,5 | 218 | 237 | 272 | 332 | |
| P | 12 | 15,3 | 18,5 | 19,9 | 18 | 25 | 25 | 28 | |
| Weight (g) Swivel (Ws) & Drum (Wd) | | | | | | | | | |
| Ws | 151 | 303 | 493 | 714 | 1050 | 970 | 2540 | | |
| Wd | 340 | 413 | 767 | 1095 | 1557 | 2160 | 2160 | 5140 | |

Standard drum attachment (snap shackle)

Standard swivel attachment (shackle)



Important : NEVER SAIL WITH THE GENNAKER OR CODE ZERO PARTIALLY FURLED. ONCE FURLED, NEVER RELY ON THE RATCHET TO FULLY SECURE YOUR SAIL

