

# GENOA & STAYSAIL

## HEADSAIL FURLING & REEFING SYSTEMS

Photo : © Jean-Marie Liot - Dufour Yachts



### Your furling system for your navigation program :

Facnor team is very much involved in innovation and customer needs. Thanks to our curiosity and its dialogues between skippers and our R&D team, we have improved our ranges of furling systems and developed specific features for each. Each sailor will be able to find the Facnor furling gear suitable for his navigation : classic drum **(LS/LX/RX)**, webbing drum **(FD)**, continuous line drum **(RC)** or electrical motorised drum **(RMEJ)**.

Photo : © Marc Ducrey / Chamade



## FOUR RANGES OF JIB FURLERS



LS/LX/RX CLASSIC DRUM

P12



FD WEBBING DRUM \*

P16



\* Award Sail magazine 2011  
\* Award Segeln Magazine 2012



RC CONTINUOUS LINE DRUM

P20

RECOMMENDATIONS & ACCESSORIES

P22



RMEJ ELECTRIC ASSISTANCE

P24



Already widely tested round the world, the LS-LX-RX ranges are now fitted with the free rotation Torlon® ball technology recently developed. Additionally foil section are connected with Torx® screws which are easy to remove.

**RELIABILITY OF THE MECHANISMS****LS-LX-RX Features :**

- Rotation Torlon® ball technology (new)
  - Eases sail furling
  - Easy access inside of drum mechanism
  - Smooth stainless steel feeder + pre-feeder (LX)
  - Rotating tack fitting (LX & RX)
  - Adjustable furling line guide
- Large range of sections and strong connections
  - Easy installation (thanks to the telescopic section)

**Sail Feeder (LX range)**

The included pre feeder gives the ideal fitting to hoist the sail alone

**DRUM & SWIVEL****Bearing box**

Components : 2 polymer fibre rings and a Torlon® balls bearing boxe

**Smooth rotation**

This bearing box takes the axial loads (halyard tension) and lateral loads (outhaul tension)

**Anodization**

(30 microns) protects these parts against impacts and abrasion

**Halyard deflector wheel**

(see page 22)

**New swivel with Torlon® balls**  
eases sail furling**Strong sections and connections**

Torx® screws for an easy fitting and further dismantling (see p.28)

**Bottom telescopic section**

enables to adjust foil section length, no cutting (see page 28)

**Internal turnbuckle fitting**

provides space inside for the turnbuckle (see page 14)

**Rotating tack fitting (LX & RX)**

Fitted with Torlon® balls : this system takes up automatically the sail fullness when furling.

**Synthetic insulation**  
to prevent electrolysis**360° adjustable furling line**

For an optimal running of the furling line

1/4

360°



Features	Ranges		
	LS	LX	RX
Removable drum		■	■
Classic drum	■		
Stainless steel feeder		■	
Aluminium feeder	■		■
Rotating tack fitting		■	■
Fixed tack fitting	■		
Round sections	■	■	
Elliptical sections			■



### Removable drum (RX & LX): System used as a simple head foil

Just a few minutes are needed to change the furling system into a twin groove head foil ready for racing.

You will find within the three ranges of headsail furling and reefing systems (LS-LX-RX), the Facnor product adapted to your needs either cruising, ocean navigation or racing.

### "CRUISING" RANGE LS&LX

**LS / LX cruising programm :** the LX range corresponds to an "upgraded" range featuring a removable drum, a rotating tack fitting, and a stainless steel feeder.

Model	LS 60	LS 70	LS 100	LS 130	LS 165	LS 180	LS 200	LS290	LS330
	LX 60	LX 70	LX 100	LX 130	LX 165	LX 180	LX 200	LX290	LX330
Boat length (meters & feet)	5,5 ↓ 7 m	6,5 ↓ 8 m	7,5 ↓ 9 m	8 ↓ 11 m	9 ↓ 12 m	10 ↓ 13 m	11,5 ↓ 14 m	13 ↓ 18 m	15 ↓ 28 m
	20' ↓ 23'	21' ↓ 28'	24' ↓ 29'	26' ↓ 36'	29' ↓ 40'	40' ↓ 43'	38' ↓ 45'	43' ↓ 60'	50' ↓ 90'
max.	5	5	6	6-7*	8-10*	8-10*	10-12*	12-14*	14-22*
forestay ø (mm & inch)	5/32"	5/32"	1/4"	1/4" 9/32" *	5/16" 3/8" *	5/16" 3/8" *	3/8" 1/2" *	1/2" 9/16" *	9/16" 3/4" *
Section	SX 25	SX 25	SX 33	SX 33	SX 39	SX 39	SX 47	SX 47	SX 53
Weight (g/m)	577	577	658	658	914	914	1095	1095	1413
Halyard swivel	CHD25	CHD 25	CHD 33	CHD 33	CHD 39	CHD 39	CHD 47	CHD 47	CHD 53
Options	link plates / turnbuckle								

\*necessary to have removable eye or turnbuckle

### "RACING" RANGE RX - REMOVABLE DRUM

**RX racing/cruising programm :** The aerodynamic sections (see p. 28), the rotating tack fitting and the removable drum plates make the RXs well adapted for racing.



Model	RX 70	RX 100	RX 130	RX 165	RX 220	RX260	RX300
Boat length (meters & feet)	6,5 ↓ 8 m	7,5 ↓ 8,5 m	8 ↓ 9,5 m	9 ↓ 11,5 m	10 ↓ 12,5 m	11,5 ↓ 15 m	13 ↓ 18 m
	21' ↓ 24'	24' ↓ 29'	28' ↓ 30'	29' ↓ 37'	32' ↓ 42'	37' ↓ 49'	42' ↓ 60'
max.	5	6	6 or 7	8	8 or 10	10	12,7
forestay ø (mm & inch)	5/32"	1/4"	1/4" or 9/32"	5/16"	5/16" or 3/8"	3/8'	1/2'
	Necessary to have removable eye or turnbuckle						
Section:	R 14	R 14	R 14	R 24	R 26	R 26	R 34
Weight (g / m)	451	451	451	555	641	641	991
Halyard swivel	CHD 14	CHD 14	CHD 14	CHD 24	CHD 26	CHD 26	CHD 34
Options	link plates / turnbuckle						

1. Unscrew and remove the furling line guide

2. Remove the half plates

3. Fit the two half protection rings

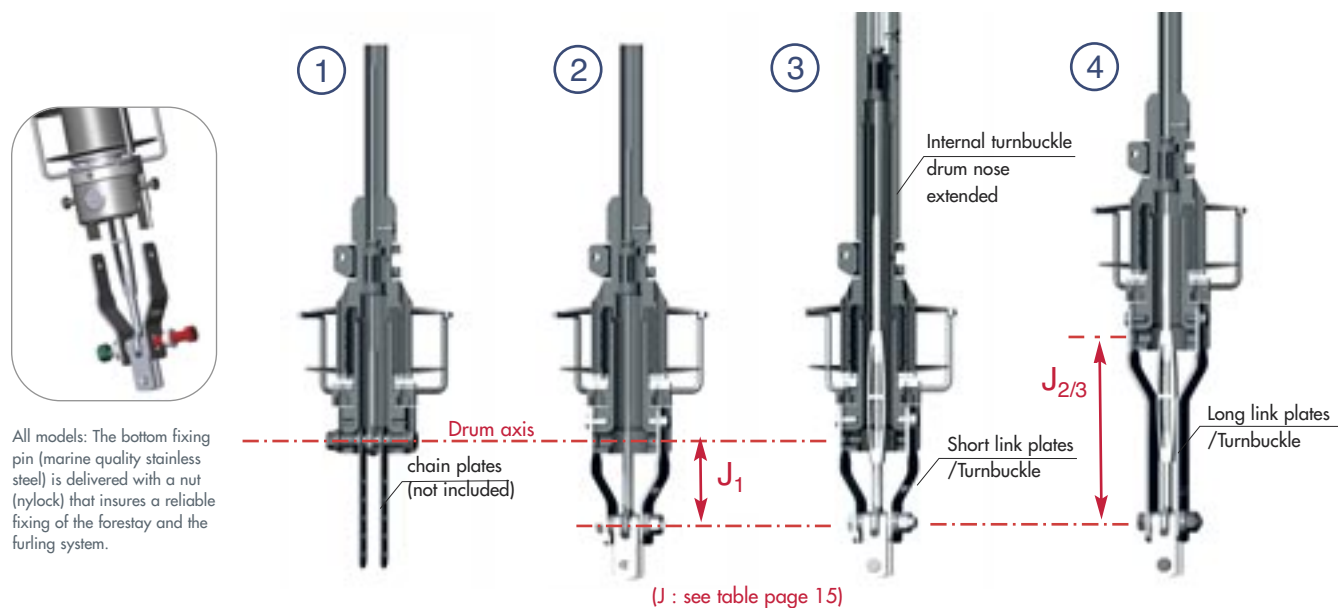
4. Once the half plates are removed, a racing Genoa can be hoisted using the twin groove head foil





## 4 POSSIBLE TYPES OF INSTALLATION

The drum fixation depends on the bottom forestay terminal fitted on your boat :



Terminaison basse étai	Eye + chain plates	Eye + jaw toggle	Turnbuckle + double jaw toggle	Turnbuckle + double jaw toggle
Type de montage	① Standard	② with short link plates	③ with internal turnbuckle & short link plates	④ with long link plates

## LINK PLATE KITS & INTERNAL TURNBUCKLE FITTINGS

**Short link plates option** pict ② ③: bent stainless steel plate 4 or 5 mm thick. Pin to pin = 100 ou 150 mm

**Long link plates option** pict ④: bent stainless steel plate 4 or 5 or 6 mm thick.. Pin to pin = 200 ou 250 mm

**Extra-long link plates option** (only for biggest models, see table below) : bent stainless steel plate 6 mm thick. Pin to pin = 350 mm.

Option lattes	LS 60	LS 70	LS 100	LS 130	LS 165	LS180	LS 200	LS290	LS330
	LX 60	LX 70	LX 100	LX 130	LX 165	LX 180	LX 200	LX290	LX330
	-	RX 70	RX 100	RX 130	RX 165	RX 220	RX260	RX300	-
<b>Short link plates option</b> - Pin to pin $\beta$ Thickness (mm) + Height J1 / Standard (mm)	lgth 100 thk 4 + 82				lgth 150 thk 4 + 128		lgth 150 thk 5 + 126		
<b>Long link plates option</b> - Pin to pin $\beta$ Thickness (mm) + Height J 2-3 / Standard (mm)	lgth 200 thk 4 + 182				lgth 250 thk 5 + 228		lgth 250 thk 6 + 226		
<b>Extra-long link plates</b> - Pin to pin $\beta$ Thickness (mm) + Height J 2-3 / Standard (mm)	-	-	-	-	-	-	lgth 350 thk 6 + 326		

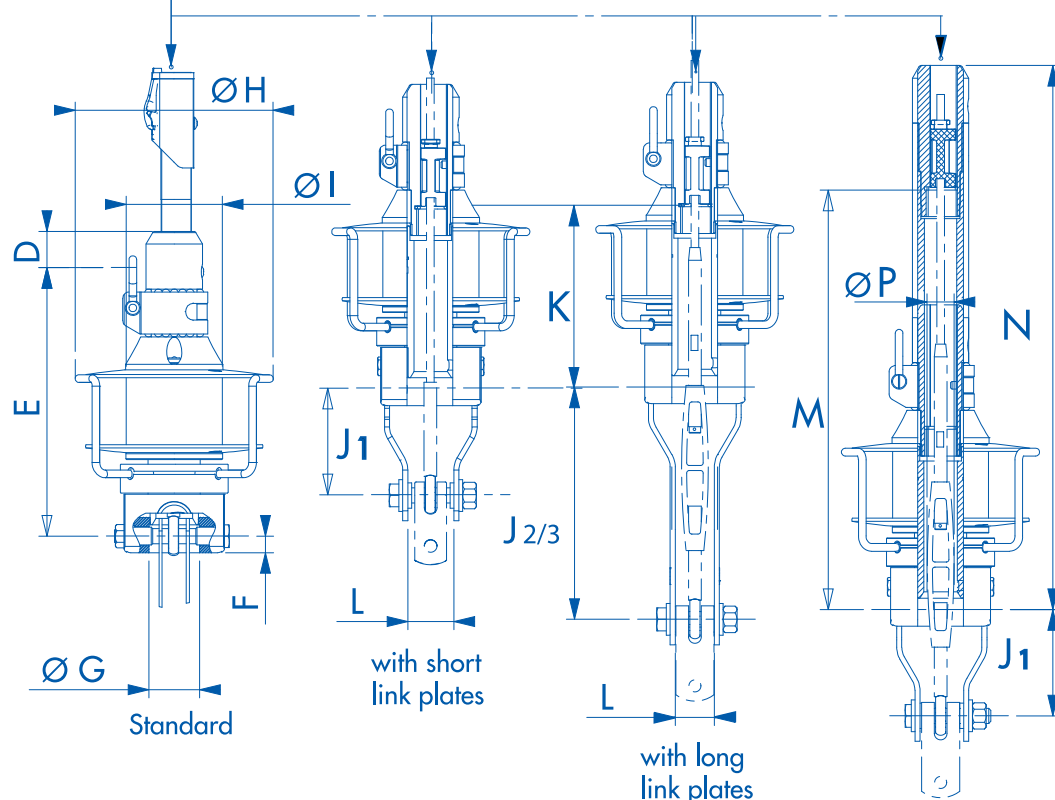
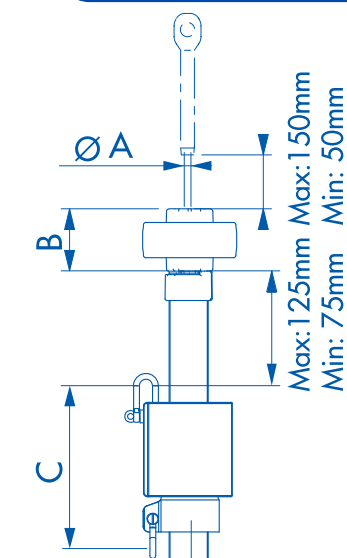
**Internal turnbuckle option** fig. ④: With the internal turnbuckle fitting, the turnbuckle can be positioned inside the drum and be easily adjusted. 5 models available

Internal turnbuckle option	LS 60	LS 70	LS 100	LS 130	LS 165	LS180	LS 200	LS290	LS330
	LX 60	LX 70	LX 100	LX 130	LX 165	LX 180	LX 200	LX290	LX330
<b>LS &amp; LX Internal turnbuckle fitting</b> ø inner dimension & lgth (mm)	ø 28 lgth 256	ø 34 lgth 279		ø 42 lgth 315		ø 50 lgth 432		ø 64 lgth 546	
<b>RX Internal turnbuckle fitting</b> ø inner dimension & lgth (mm)	-	RX 70	RX 100	RX 130	RX 165	RX 220	RX260	RX300	-
		ø 28 lgth 256		ø 34 lgth 279		ø 42 lgth 315		ø 50 lgth 432	



### Greasing screws :

When assembling and servicing during the winter your furling gear, put grease on the screws situated at the bottom telescopic section and the top of the drum link plates. This will simplify the dismantling or turnbuckle access if necessary.



**Reminder :** no need to cut the forestay when installing Facnor furling system (see p. 28)

**Rinsing the drum/swivel :** The LS-LX-RX furling systems do not require any specific maintenance except from regular cleaning with fresh water. This will remove salt deposits, source of corrosion.

### LS-LX-RX DIMENSIONS

Dim. (mm)	LS-LX 60	LS-LX 70	LS-LX 100	LS-LX 130	LS-LX 165	LS-LX 180	LS-LX 200	LS-LX 290	LS-LX 330
		RX 70	RX 100	RX 130	RX 165	RX 220	RX 260	RX 300	
B	53	53	53	53	53	53	53	53	53
C LS-LX	154	154	170	170	182	182	238	238	286
C RX	-	154	154	154	170	182	182	238	-
D	34	34	29	29	16	16	28	28	38
E	207	207	225	225	241	241	278	278	306
F	13	13	12,5	12,5	18	18	20	20	20
G	40	40	48	48	56	56	78	78	78
H	146	157	171	191	210	225	246	276	320
I	76	76	84	84	95	95	124	124	124
J	(See table page 14)								
K	142	142	156	156	173	173	202	202	219
L	26	26	32	32	41	41	61	61	61
M	331	331	367	367	419	419	551	551	687
N	429	429	465	465	513	513	656	656	812
ø P	28	28	34	34	42	42	50	50	63

Note: The specifications are subject to change without notice, please refer to your "pro support" on the extranet Facnor (reserved for dealers) for more information or discounted technical support [www. facnor.fr](http://www.facnor.fr).

with internal turnbuckle option & short link plates





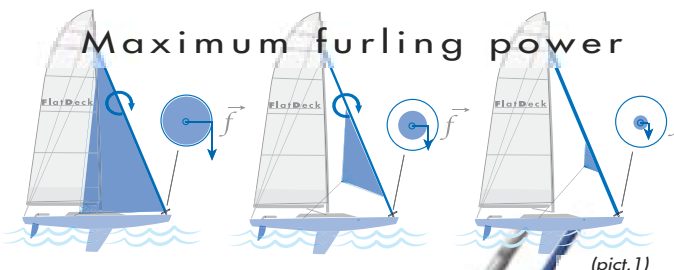
Photo : © Pierick Contin / IDB Marine

FlatDeck is a powerful furling system fitted with a webbing. This great Facnor innovation offers safe and easy headsail furling: no reefing line overriding and a massively improved torque. Overall, with the FD low profile drum, you benefit from a maximum luff!

## PERFORMANCE & EASY FURLING

### FD Features :

- Maximum power when you start furling in
- Maximum luff thanks to the low profile drum
- No risk of overriding (webbing guide exit)
- Complete webbing & swivel fitting /rope & leads
- Rotating tack fitting
- Matching with LS/LX/RX models
- Resistant webbing(> 1/2 ton) and against ultra violet rays



### Great torque

since the beginning, unlike classic drums (see pict 1)

### Swivel :

smooth rotation

Torlon® balls bearing.



### Smooth rotation

Bearing box supports both halyard and sail foot tensions.

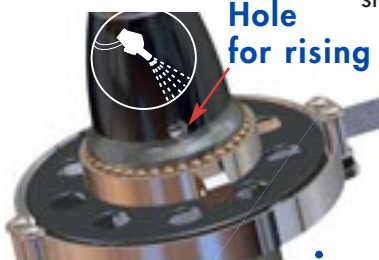
### LS/LX/RX Conversion into FlatDeck

Possibility to upgrade their classic Facnor furling system\* by adding a new FD drum. (\* see page 17)

### Internal turnbuckle fitting

(included in standard kit)

### Hole for rising

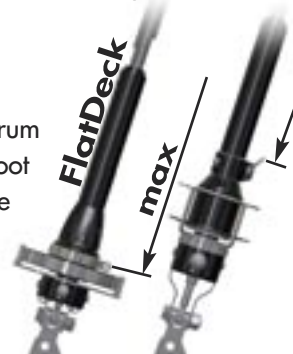


### Low drum

fitted with short link plates for limited height

### Maximum luff

thanks to the low profile drum and the Genoa tack and foot that lays close to the deck (the Flatdeck offers 20 cm of additional luff length compared to an equivalent classic drum style furler).



### 360° Rotating tack fitting

fitted with Torlon® balls : takes up automatically the sail fullness when furling.

### Webbing guide exit

This eliminates overrides as the webbing lays flat inside the drum.

### High resistance webbing

Dim stretching and UV resistant webbing





## FURLING LINE & SECTIONS

### Webbing / Furling rope kit :

- See description of the furling line kit (see against). The webbing is connected to the line with a swivel. This high resistance swivel (more than 1 ton load) prevents the webbing from twisting. The oblong design of the swivel guarantees a free run.



### Foil sections :

As performance orientated products, one FD range is supplied with thin and lighter "R" foil sections. The other FD range, more adapted for cruising, is fitted with round "SX" sections (see page 28).

### FD Standard kit:

- drum
- internal turnbuckle fitting
- short link plates
- R sections + connexions
- halyard swivel
- webbing / rope kit

### Installation of the furling line kit: (included in standard kit)

- furling line swivel
- webbing (from 10 up to 27 m.);
- standard furling line;
- 1 block + s-s leads;

### International awards :

- 2012 Segeln Award (Germany)  
"best sailing equipment category"



- 2011 Pittman Award (USA)  
"Racing gear category"



### "R" Retro-fitting:

Possibility to connect the "R" foil sections from an existing RX drum onto a FD one.

**"SX" Retro-fitting:** boat owners possessing a Facnor LS/LX furling equipment (SX sections) can enjoy the confort and performance brought by the drum FD models (FD90, FD170, FD210, FD280). For further information, please contact your Facnor agent.

## "RACING & RACING - CRUISING" FD RANGE

### Racing / cruising navigation program

	FD 110	FD 190	FD 230	FD 310
<b>Boat length</b> (feet-meters)	26' → 29' 8 → 9 m	29' → 39' 9 → 12 m	36' → 43' 11 → 13 m	41' → 60' 12,5 → 18 m
<b>Section</b> weigh / meter	Elliptical sections R			
	R 14 451 g	R 24 555 g	R 26 641 g	R 34 991 g
<b>max. forestay ø*</b> (inch & mm)	9/32*** ø 7**	5/16" ø 8	3/8" ø 10	1/2" ø 12,7
<b>Halyard swivel</b>	CHD 14	CHD 24	CHD 26	CHD 34

\*necessary to have removable eye or turnbuckle

\*\* Close turnbuckle cage if open cage ø > 24 mm

## "COMFORT - CRUISING" FD RANGE

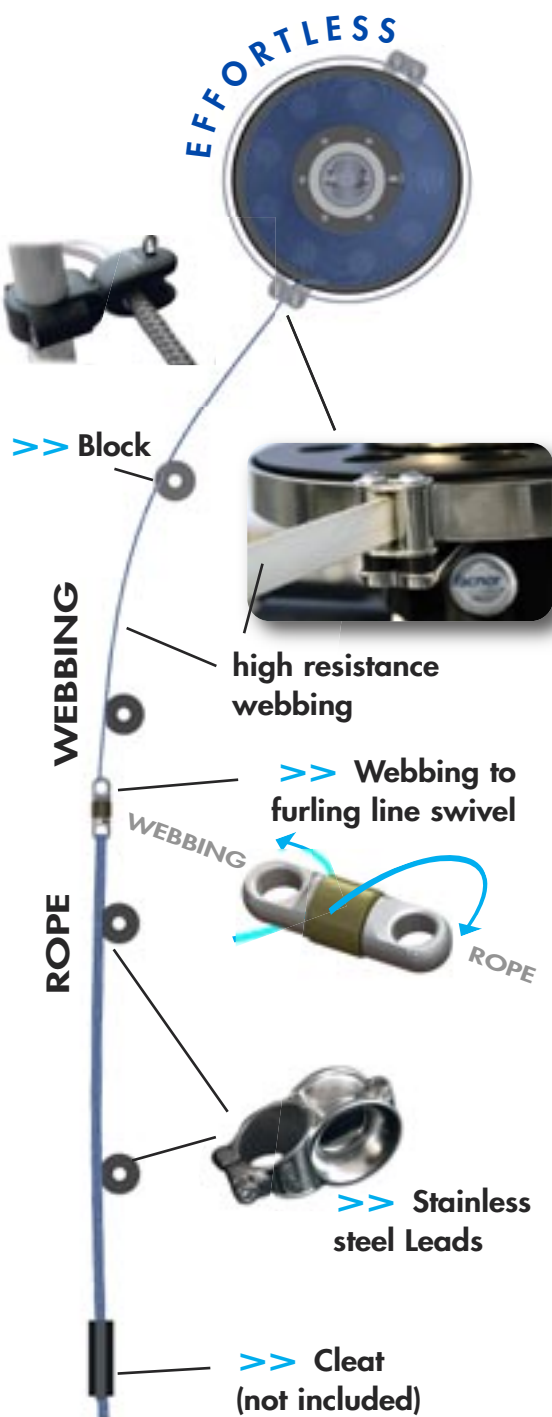
### Comfort - Cruising navigation program

	FD 90	FD 170	FD 210	FD 280
<b>Boat length</b> (feet-meters)	20' → 26' 5,5 → 8 m	24' → 36' 7,5 → 11 m	29' → 43' 9 → 13 m	38' → 60' 11,5 → 18 m
<b>Section</b> weigh / meter	Rounded sections SX			
	SX 25 577 g	SX 33 658 g	SX 39 914 g	SX 47 1095 g
<b>max. forestay ø*</b> (inch & mm)	5/32" 5 mm	1/4" - 9/32" 6 / 7* mm	5/16" - 3/8" 8 / 10* mm	1/2" - 9/16" 12 / 14* mm
<b>Halyard swivel</b>	CHD 25	CHD 33	CHD 39	CHD 47



Crédit Photo : Jean-Marie Liot - Dufour Yachts

## EASY INSTALLATION WEBBING &amp; DRUM

**Webbing fitting :**

- **efficient and quick installation :** thanks to a complete kit (included. see p.17)
- The furling line guide leaves various possible ways of fittings. Your Facnor agent will suggest you the most adapted solution.

**Furling system assembly :**

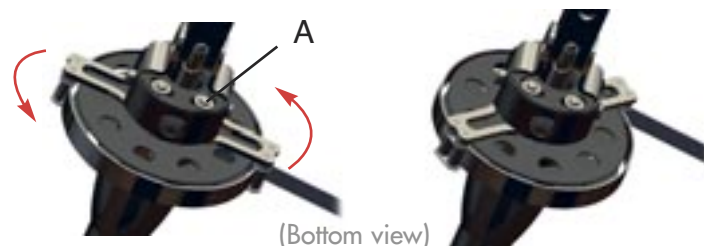
- Like LS/LX/RX ranges (see page 14), the drum fitting depends on the forestay terminal (see page 14).
- You can even change your LX/LS/RX drum for a FlatDeck one with **keeping the existing foil sections**.

**Dimensions :** the gain in luff length with low profile FD drum is obvious (see chart below). To achieve this aim, the base of the drum has been lowered and standard link plates are shorts (see table against).

**Furling line leads :** The s-s leads are simply screwed round the stanchion. They have been specially designed for the free running of swivel through. The kit includes a block to be fitted at the first front.  
Ref. 25200000300

**Adjusting the furling line guide :**

The furling line guide are adjustable in order to fit different deck configurations (4 screws - see rep. A).



## INTERNAL TURNBUCKLE FITTING (STANDARD)

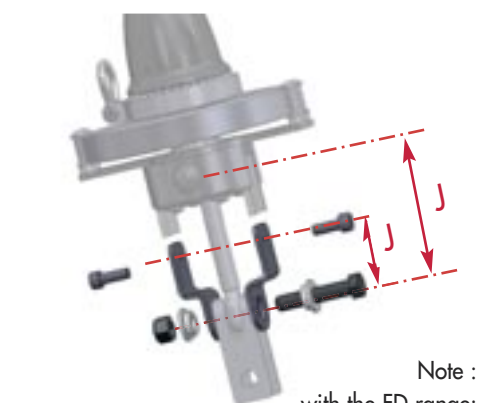
With the internal turnbuckle fitting, the turnbuckle can be positioned inside the drum and be easily adjusted. 4 models available on the FDs.

Internal turnbuckle fitting (delivered in the standard kit)	FD 90	FD 170	FD 210	FD 280
	FD 110	FD 190	FD 230	FD 310
Internal turnbuckle fitting ø iner dimension & length (en mm)	ø 28 lgth 312	ø 42 lgth 420	ø 42 lgth 420	ø 50 lgth 592

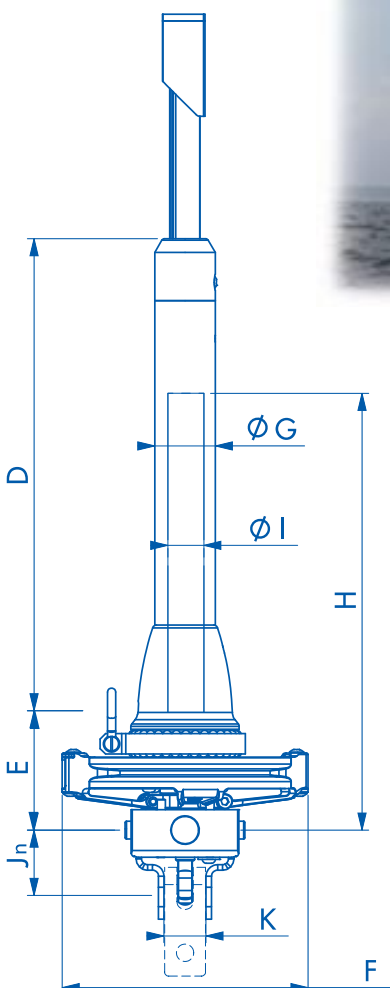
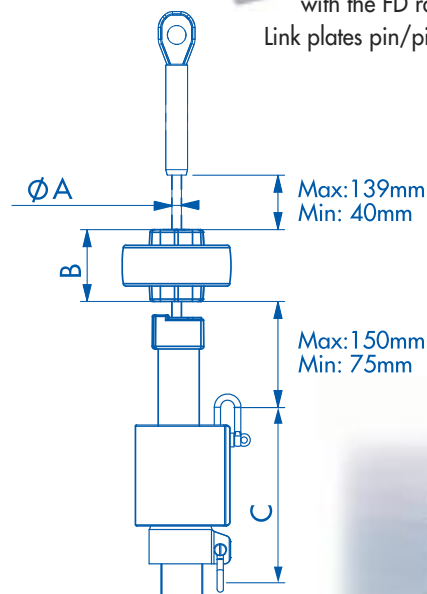




### FD LINK PLATES DIMENSIONS



Note :  
with the FD range:  
Link plates pin/pin = J



Link plates model			FD 90	FD 170	FD210	FD 280
			FD110	FD190	FD 230	FD310
STANDARD	short link plates kit	J1 (mm)	lgth 48	lgth 66		lgth 77
		thickness	thk 4	thk 4		thk 5
OPTIONS	medium link plates kit	J2 (mm)	lgth 100	lgth 150		lgth 150*
		thickness	thk 4	thk 4		thk 4
	long link plates kit	J3 (mm)	lgth 200	lgth 200		lgth 200*
		thickness	thk 4	thk 5		thk 4
	extra-lg. link plates kit	J4 (mm)	-	lgth 250		lgth 250*
		thickness	-	thk 5		thk 5

\*  $\varnothing A < 12$  max.

### FD MODELS DIMENSIONS

Dim. (mm)	FD RANGE DIMENSIONS			
	FD90 FD110	FD170 FD190	FD210 FD230	FD280 FD310
B	53	53	53	53
C	140	148	178	205
D	342	466	466	634
E	88	92	92	105
F	182	232	232	282
G	45	61	61	73
H	332	459	459	632
I	28	42	42	50
J	(See table "link plates" above)			
K	30	40	40	60
$\varnothing$ Max turn-buckle body	24	38	38	46

H,I = Availabe space for the turnbuckle inside the drum



Photo Credit : JBoats / J111

Photo Credit : © Pierriek Contin / IDB Marine





Photo Credit : © Luis Pueyo Puente - Pogo 10.50

The RC furling range is fitted with a continuous line drum giving a maximum luff length and generates a constant torque and prevents line from overlapping. These specific performances and safety features combined with sturdiness, have lead to a wide reputation specially for single-handed sailing. The RC low drum design meets the satisfaction of the most demanding sailors who like discreet and neat products.

## PERFORMANT & AESTHETIC

### RC Features :

- Low drum and internal turnbuckle fitting : the Genoa outhaul follows the deck
- Furling power increased and constant pull (big diameter of the furling line drum)
- Waterproof bearings, do not require any specific maintenance
- Eliminates risk of furling line overriding
- Rotating tack fitting
- Simple installation (telescopic section)
- Fits « R » existing foil sections



### Maximum luff

Tack point  
on classic  
drumTack point  
on RC  
drumDeck fixation  
point

### Bearing box

High load s-s ball  
bearing

### Bearing box

with Torlon® balls

### Head foil : elliptical sections

See page 28

### Rotating tack fitting

takes up automatically the sail fullness when furling

### Simple fitting & access to the turnbuckle

Very low assembly and allows to  
quickly check the forestay bottom  
parts.  
(see page 21)

Ring fitting

Bottom eye or  
rigging screwInsulating  
ring

Screw

Fixing pin

Toggle

Chain plate

### Furling line exit

As the Spinnaker leads, allows guiding the  
furling line around the clam cleat without any  
risk of wearing



Photo Classic 35 - David Riard



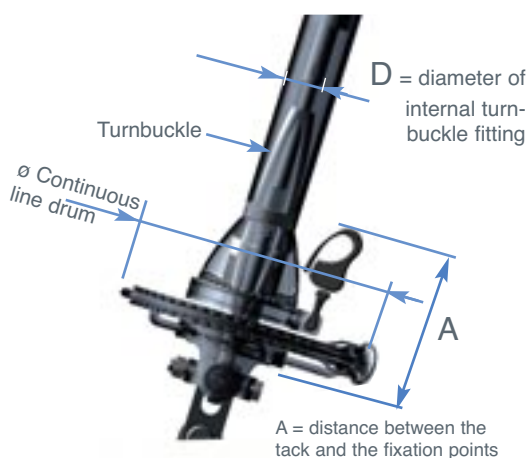
Photo : Loftboats

### Easy access to the turnbuckle :

- installation with turnbuckle or eye terminal + link plate.

### Ring for turnbuckle access :

- easy and quick access to the forestay terminal (eye, turnbuckle,...) for a simple check or a slight adjustment  
- this ring fitting sets separately the forestay from the drum. By removing a few screws, the drum can be lifted up. Moreover, this fitting contributes to an additional articulation of the furling system that eases the drum bearings.



## CONTINUOUS LINE FURLING & REEFING SYSTEMS



Photo Credit : © Deltavolles

### CONTINUOUS LINE FURLING SYSTEM RANGE

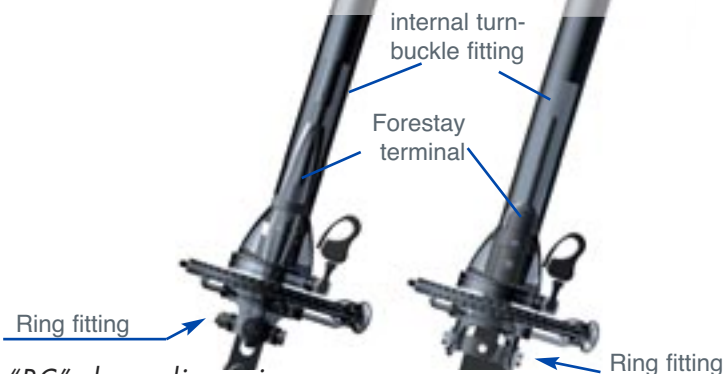
MODEL	RC 100	RC 180	RC 220	RC 300
Boat length (meters & feet)	8 ↓ 9 m	9 ↓ 12 m	11 ↓ 13 m	12,5 ↓ 18 m
	26' ↓ 30'	30' ↓ 40'	38' ↓ 43'	41' ↓ 59'
	7*	8*	10*	12,7*
max. forestay ø	9/32"*	5/16"*	3/8"*	1/2"*
Section : weight per meter	R 14 451 g	R 24 555 g	R26 641 g	R 34 991 g
standard length section	2 M	2 M	2 M	2 M
Halyard swivel	CHD 14	CHD 24	CHD 26	CHD 34
Option spliced furling line	■	■	■	■

\*necessary to have removable eye or turnbuckle

### SIMPLE INSTALLATION

#### Fitting with turnbuckle

#### Fitting with eye terminal



#### "RC" drum dimensions

Model	ø mechanism (mm)	A (mm)	D (mm)	ø furling line (mm - inch)
RC 100	ø 170	110	33	ø 8 5/16"
RC 180	ø 220	130	38	ø 8 5/16"
RC 220	ø 220	130	38	ø 8 5/16"
RC 300	ø 270	160	44	ø 10 3/8"

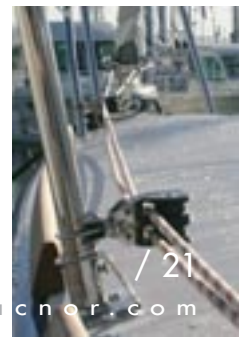
D = inner diameter

#### Other dimensions :

See our technic support on [www.facnor.fr](http://www.facnor.fr)

### The continuous furling line :

The spliced rope and the double blocks are not provided. See the example of how the continuous furling line can run on the deck (to be adjusted according to the boat deck plan). See suggested installation page 41 (same as FX & AFX).

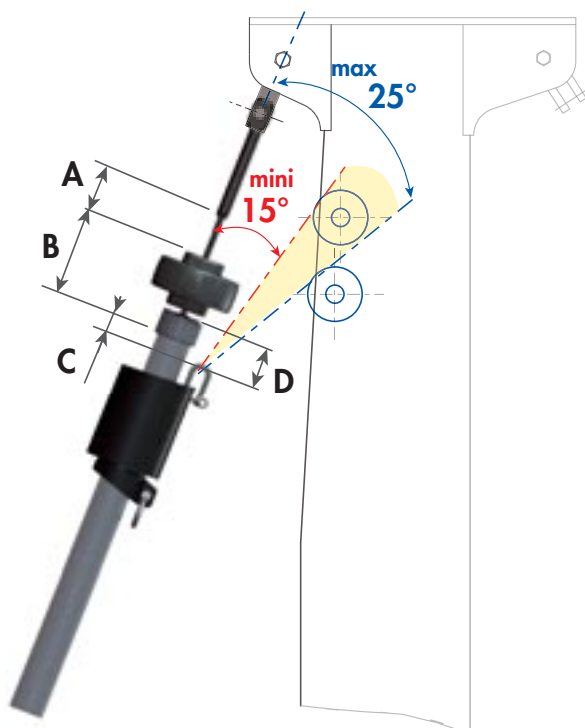




## RECOMMANDATIONS : HALYARD ANGLE

**Halyard deflector wheel :**

It prevents the halyard from wrapping round the forestay and also deflects Spinnaker



halyard. It is important to maintain this part to protect the forestay.

**Halyard angle with forestay :**

- It must be situated between 15 and 25°
- Distance between halyard swivel & top car must not measure more than 150mm.

A = mini 50 mm and maxi 80 mm between halyard deflector wheel and bottom end of the forestay terminal.

B = 78 mm

C = 80 mm max. between the halyard swivel & the top car (after sail stretching)

Note: These average values fluctuates according to the mast geometry. We strongly recommend to have the furling kit installed by a skilled professional (see list of our world-wide agent network on [www.facnor.com](http://www.facnor.com))

## USE OF THE HALYARDS SPECTACLES

**Universal Spi spectacles :**  
**Halyard handling**

If the angle between the halyard and the forestay is too narrow (less than 15°), it is recommended to add universal spi spectacle to open this angle. It prevents the halyard from wrapping around the forestay. (Sparcraft spectacle range)

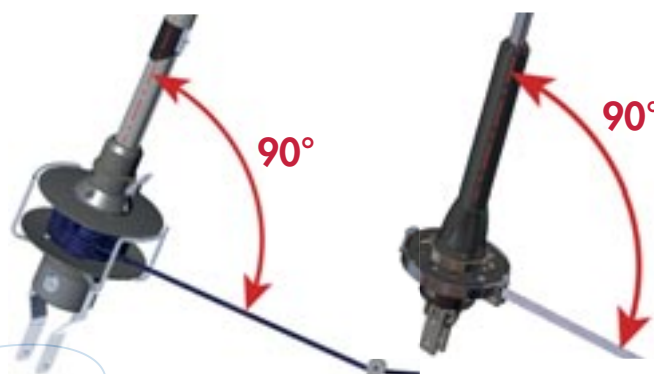
Sparcraft spi spectacle model	ø A int. (mm)	ø Rope (mm)
Small size (with 4 rivets) ref. Sparcraft 43220.000.035	ø 12	ø 5 ø 6 ø 7 ø 8 ø 10
Middle size (with 4 rivets) ref. Sparcraft 43220.000.025	ø 17,6	ø 12 ø 14 ø 16
Large size (with 4 rivets) ref. Sparcraft 43220.000.015	ø 22	ø 18 ø 20 ø 22

## RECOMMENDATIONS FOR FURLING LINE FITTING

**90° for the furling line :**

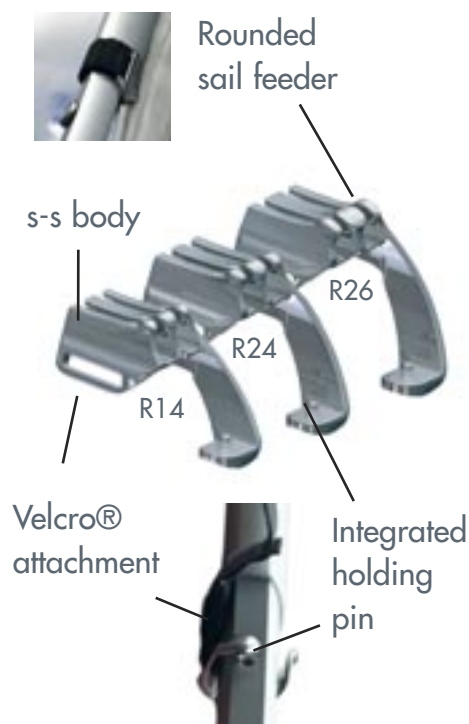
Whatever furling model (LS, LX, RX or FD), the furling line must run with 90° angle from the forestay (see against).

LS-LX-RX models: the furling line must run through one s-s guide.





RX, FD, RC ACCESSORIES



**New Sail feeder (R14, R24, R26) :**

Enjoy fully the performance of your sailboat - Facnor supplies a new sail feeder enhanced for quick change of sail and entirely removable. A Velcro strap ensures an easy fitting or disassembly from elliptic R foil sections. Its stainless steel body guarantees reliability whereas its studied design and

smooth shape prevent from luff tape wearing. Save time in sail handling, the swivel is shortly lowered. Ideal when you convert your furling system fitted with R14, R24 and R26 section in headfoil, and suitable - but not only - with FlatDeck gears.

Sail Feeder	
Model	Reference
R14	09130128142
R24	09130128242
R26	09130128262

LS-LX-RX ACCESSORIES

**Furling line kit :**

Furling line kit includes adapted polyester good quality rope



x 4

Rope & leads kits		
Model	LS-LX-RX Model	Reference
ø 6 x 20 m + 4 leads stanchion	LS/LX 60-100 RX 70-100	24106200400
ø 8 x 24 m + 4 leads stanchion	LS/LX 130-180 RX 130-220	24108240400
ø 10 x 24 m + 4 leads stanchion	LS/LX 200-290 RX 260-300	24110240400



**Halyard**

**tension :** the halyard can be slack when sailing downwind or by light wind (and inversely), in order to improve boat performance. Also, after cruising or racing, one should not forget to slacken the halyard when back at berth, this will usefully release tension in the sail, sheaves and above all the swivel.





Facnor offers a range of motorized furling and reefing systems for any boat over 9 meters. With these electric furling systems, the headsail becomes easy to handle from the cockpit with any abrupt interruption. This secured device will make your cruising very pleasant...

## COMPACT & ELEGANT

### RMEJ Features:

- Waterproof motorized device and worm gear lubricated for life (maintenance free)
- Installation over the existing forestay without any modification
- The worm gear ensures that the reefed sail does not unfurl
- Low sound level, elegant and compact
- Quick connections with Boxtron box
- Easy switching from LS-LX manual to RMEJ motorized reefing furler
- Available in 12 or 24 volts

### RMEJ ratio motor : maintenance free

The worm gear ensures that the reefed sail does not unfurl. The electric furling gear operates quietly thanks to the high precision machining of each part. Incidentally, the gear can rotate either clockwise or anticlockwise



### Boxtron relay system

This separate relay box eases the installation and wire connections for the motorization (see page 26)

### Compact & elegant motorized unit

- machined from one piece of aluminium and protected by anodization.

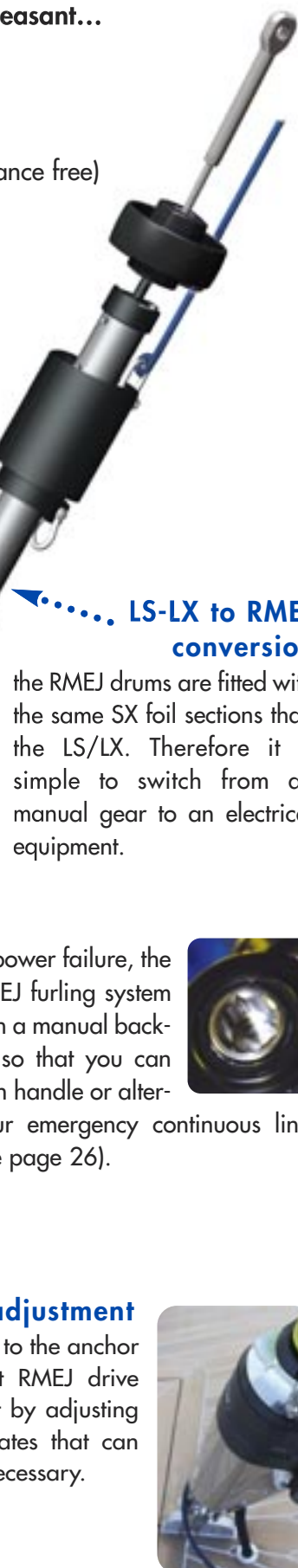


- The aerodynamic design of the electric device does not take up too much room on the foredeck.
- waterproof



### Use of existing forestay

the structure enables the installation on existing forestay including turn-buckle



### LS-LX to RMEJ conversion

the RMEJ drums are fitted with the same SX foil sections than the LS/LX. Therefore it is simple to switch from an manual gear to an electrical equipment.



### Safety

In case of power failure, the Facnor RMEJ furling system is fitted with a manual back-up device so that you can use a winch handle or alternatively our emergency continuous line system (see page 26).

### Height adjustment

According to the anchor position fit RMEJ drive unit height by adjusting s-s link plates that can be cut if necessary.

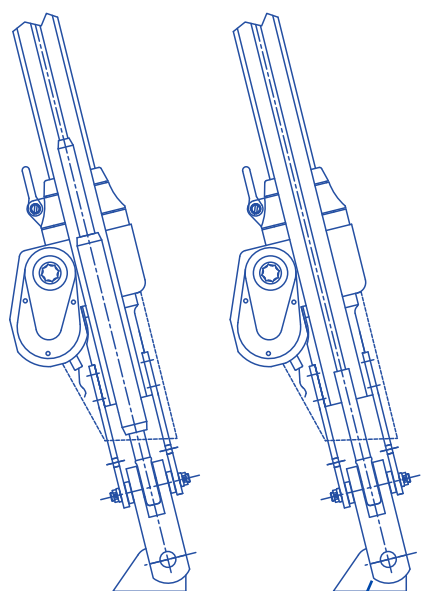




"COMFORT CRUISING" RMEJ RANGE

**RMEJ Use :**

RMEJ drive units generate a great power in order to shortly furl in the Genoa. Facnor electric furling kit is complete and includes foil sections, electric motorisation, pin, link plates and toggle.  
(special toggle, please contact us)



**Toggle**

included in the standard kit

**RMEJ Standard Kit :**

- electric motorization
  - sections and connections
  - pin and toggle
- (special toggle, contact us)

**Options (see page 26) :**

- Boxtron relay system
- Boxtron relay system delivered with wire or radio remote control

Electric furling system model	RMEJ 1.02 SX 39	RMEJ 1.02 SX 47	RMEJ 2.02 SX 53
Boat length (mètres)	9 → 13 m	12 → 17 m	+ 16 m
	30' → 42'	40' → 57'	+ 55'
max. forestay ø (* turnbuckle) (mm & inch)	8 mm 10 mm*	12 mm 14 mm*	14 mm et +
	5/16" 3/8"*	3/8" 1/2"*	+ 9/16"
Standard forestay length (meters & feet)	14m50 ↓ 16m50	18m50 ↓ 20m50	20m50 ↓ 22m50
	48' ↓ 54'	61' ↓ 67'	67' ↓ 74'
Section ref.	SX39	SX47	SX53
Power	400 w**	400 w**	900 w**
Tension	12 ou 24 V	12 ou 24 V	24 V
Halyard swivel	CHD 39	CHD 47	CHD 53

\* Installation with swage rigging screw or "manual"

\*\* This power develops high performance while consuming low energy, therefore saving batteries.

SECTIONS & HALYARD SWIVEL RMEJ

**SX sections**

The sections fitted on RMEJ electric system are the same as on the LS/LX range (see page 28). These performance sections ensure a torque resistance even under high loads.

**CHD halyard swivel (billes Torlon®)**

The swivels feature the same quality as the swivel delivered with the LS & LX racing range.

**Use of the existing forestay :**

The hollow inside of the motorized device allows fitting the existing forestay (even with a turnbuckle bottom terminal). If necessary, it is possible to install the furling gear with the forestay fixed on the mast head. You only need to remove the bottom fixation pin of the forestay



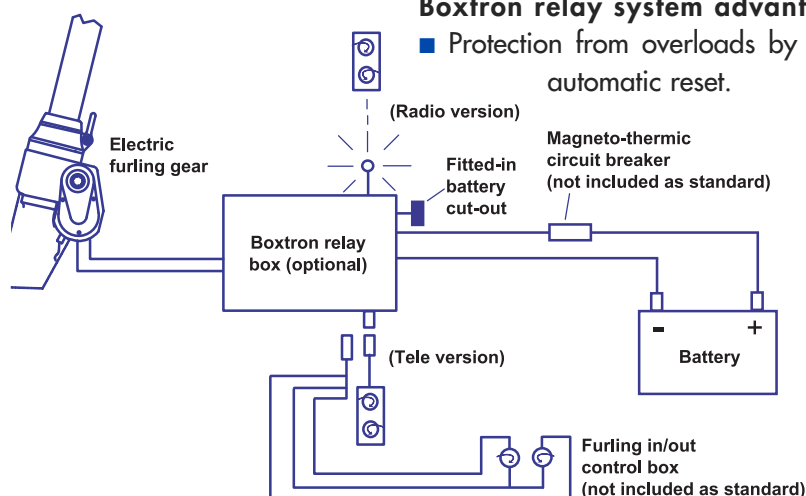
## BOXTRON RELAY SYSTEM

**Makes the installation easy and protect the circuit:** The BOXTRON system is a pre-assembled box containing all electrical components necessary for

operating the electric furling gear. This compact system is available in two versions: "TELE" (wired) or "RADIO" control.

### Boxtron relay system advantages :

- Protection from overloads by an adjustable electronic cut-out device with automatic reset.



- Sound alarm in case of failure. Control LED's.

- Progressive on/off switch integrated Furling begins slowly then increases quickly with accelerated ramp up. This smooth transition is adjustable easily and prevents mechanism from brutal changes.

- Available in two versions: "tele" and "radio" control".

The boxtron system (box above) can be supplied in "tele" or "radio" (wireless) control. In this case, the box cover includes the "radio" device.



Boxtron relay system	Model	Reference
Boxtron relay system ①	RMEJ 1.02 12V RMEJ 2.02 12V	56024001040
	RMEJ 1.02 24V RMEJ 2.02 24V	56024001042
Wireless boxtron remote control ②	RMEJ 1.02 + RMEJ 2.02	56024001020
Radio boxtron remote control ③	RMEJ 1.02 + RMEJ 2.02	56024001005

## EMERGENCY SYSTEMS OPTION

### Operating in any circumstances :

The "FACNOR emergency system" is made up of a notched drive wheel and a continuous line. If an elec-

trical failure were to occur, this device allows the operator to quickly and easily furl in the headsail (standing one meter behind).

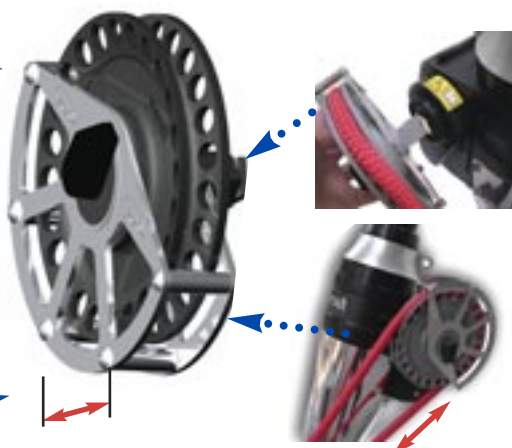
### Sturdy fitting.....

corrosion resistant (anodized aluminium and stainless steel)

### Furling power .....

thanks to the torque of the continuous line drum

### Compactness .....



### Self-locking device :

The Facnor emergency system is fitted like the emergency handle, with a standard square drive winch socket.

### Continuous furling line

Once the wheel is fixed, stand one meter behind the pulpit and pull the continuous line to manually operate the furling system.



### But also...

- Adaptable on any standard model of electric/hydraulic furlers
- Ref. 03039000000. Thickness = 55,10 mm.
- Drum diameter = 165 mm

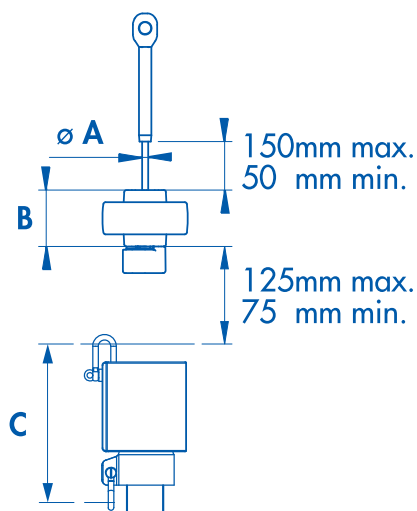
- 12 mm diameter line and protection bag included in delivery
- Speed of furling operation



photo credit : HINCKLEY 42 DS © Phil Bennett

Electric furling system model	RMEJ 1.02 SX 39	RMEJ 1.02 SX 47	RMEJ 2.02 SX 53
Section ref.	SX39	SX47	SX53
max. forestay $\varnothing$ (* turnbuckle)	10 mm*	14 mm*	22 mm
B	53	52	52
C	203	248	282
D*	43	50	70
E	344	364	466
F	12	12	32
G	500	500	716
H	196	196	282
$\varnothing I$	12	12	20
J	45	45	60
$\varnothing K$	73	73	93
$\varnothing L$	65	65	78
M	202	202	228
N	65	65	89
Power	400 W		900 W

\* End of the telescopic section



#### E14 Boxtron control device

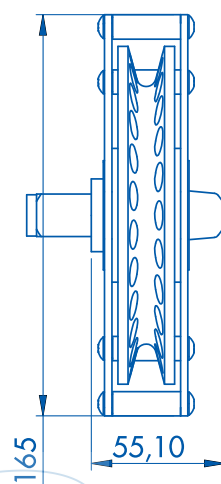
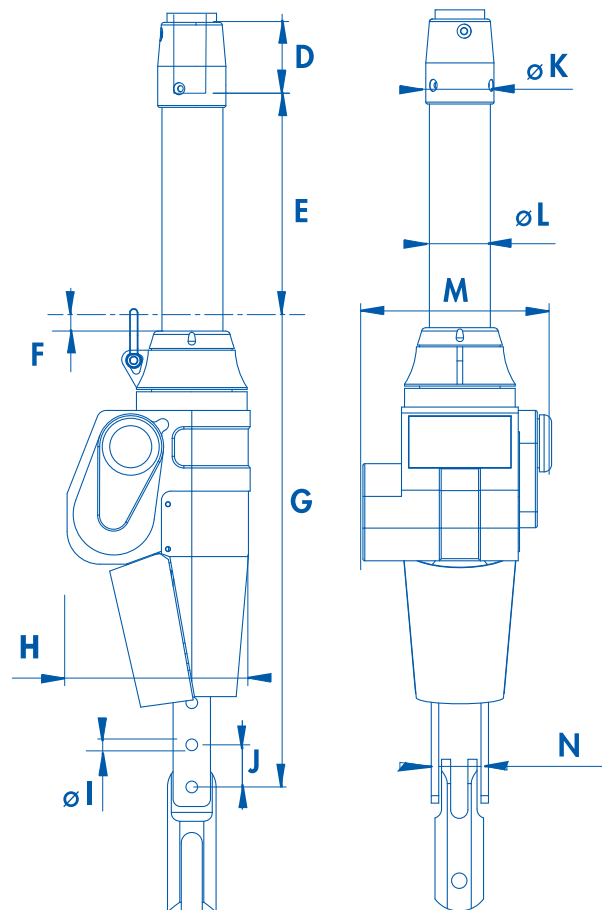
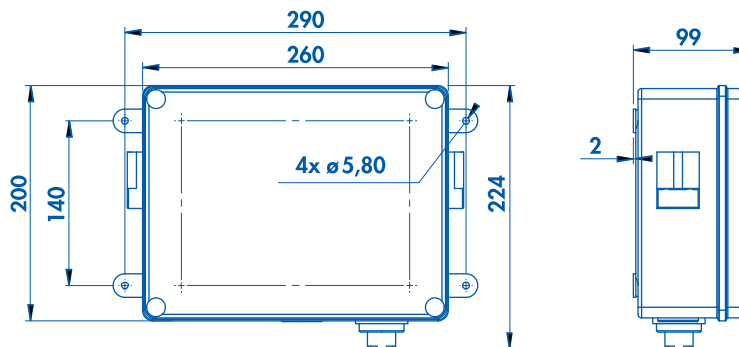


photo credit : CONRAD / Conrad 66



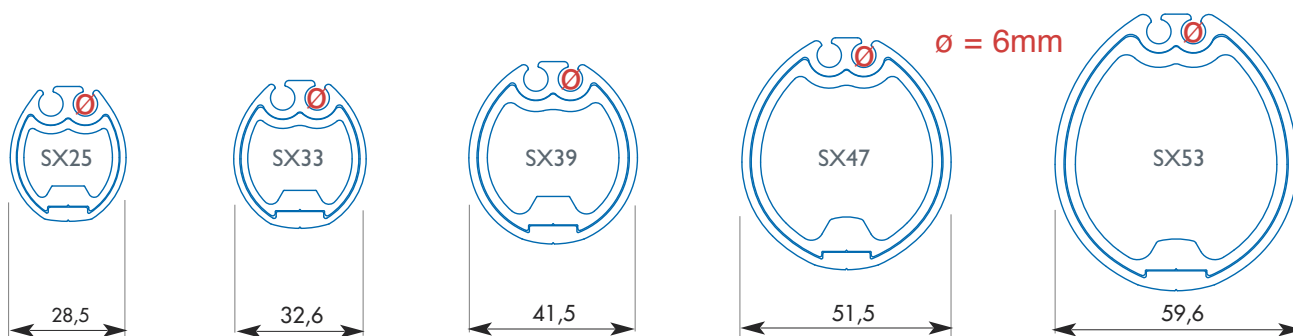


**STRENGTH & ADAPTABILITY**

Foil sections are fitted on the various headsail furling and reefing systems : classic drum (LS, LX, RX), continuous line drum (RC), webbing drum (FD) and motorized drum (RMEJ).


**SECTIONS DIMENSIONS SX & R**
**Rounded sections SX 25 / SX 33 / SX 39 / SX 47 / SX 53 :**

The SX twin groove foil sections, round shaped, offer smooth furling as well as a high rigidity. We recommend a 5mm finished luff tape


**Elliptical sections R14 / R24 / R26 / R34**

This range of sections offers good aerodynamics, and the double-groove allows easy sail changing. We recommend a 5mm finished luff tape except for the R14 (4.5 mm).

