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BFBM^(A80)

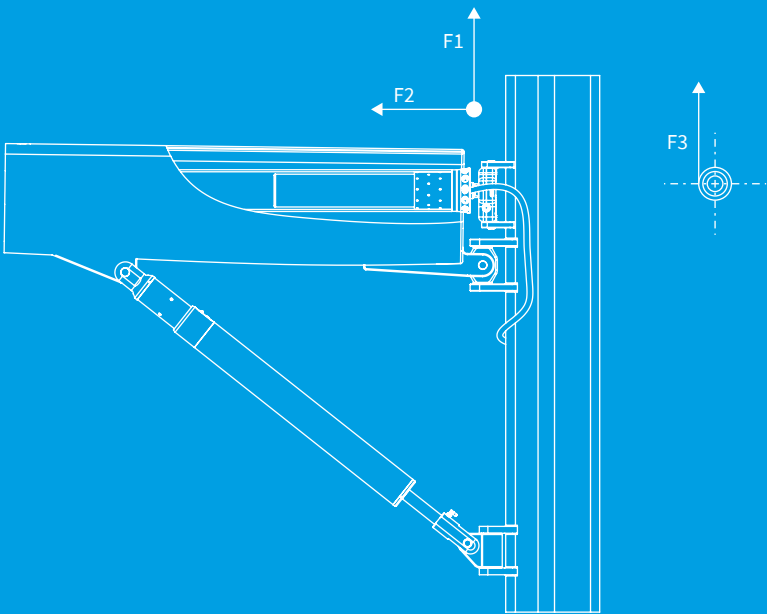
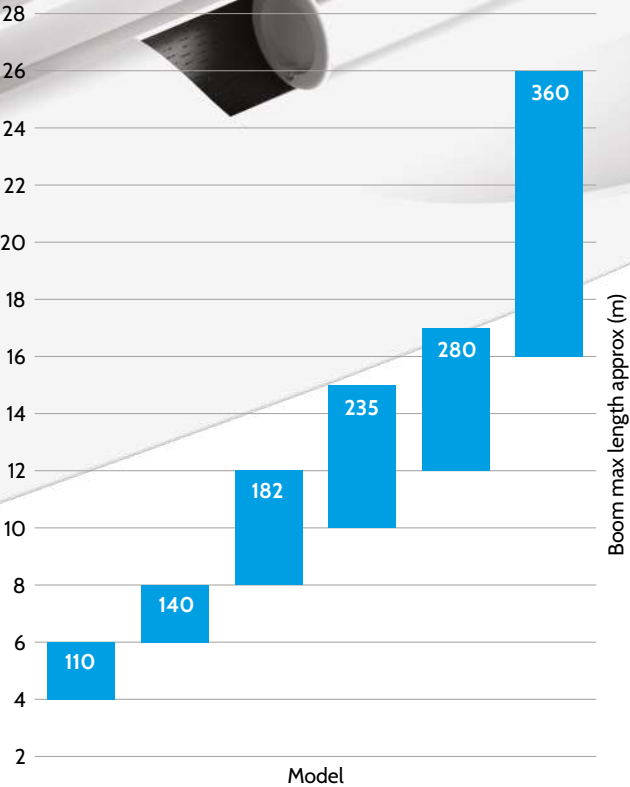
hydraulic o electric motorization for furling booms

Electric motorizations for furling booms available for sailing yachts with indicative boom length from 5 to 25 metres. The system is made up by a reduction gear and an electric motor with its brake (to lock the device when reefing), integrated and protected inside a cylindrical structure designed to be housed inside the mainsail furling mandrel. Should the boom-maker supply a manual locking device (part of the boom construction), then the electro-magnetic brake is not required. The motorization external body is in polished stainless steel, and is supplied with slots where the mainsail tack is to be tied on. The standard motorization (A) may be equipped with either a simple boom toggle (B), or alternatively, with the special boom toggle (C) that integrates the manual emergency clutch.

N.B.: both toggles are optional and are to be requested when placing the order. Upon demand, we may supply the drilling template (D) for the mandrel.

Being compact, light in weight, easy to install and thanks to its position mast-side of the boom, our electric motorization represents a unique solution in its field. Moreover, among the systems on the market, this Bamar furler is the one that allows for the minimum distance between aft-face of the mast and sail tack. This makes the sail opening and closing easier.

Sizes 140, 182, 235, 280 and 360 may also be hydraulically motorized.



Mandrel External Ø mm		110	140	182	235	280	360
Boom max length (indicative not binding) m		6	8	12	15	18	22 - 25
F1 Vertical Pull max WL* t		1,5	2,5	6	11	15 - 20	30
F2 Horizontal Pull max WL* t		1	2	4	7	10	20
F3 Reefed Sail Vertical max WL** t		1,5	2,5	6	11	15 - 20	30
Simple boom toggle (B) weight kg		2,26	2,52	2,94	-	-	-
Emergency boom toggle (C) weight kg		4,57	5,31	6,05	22,18	44,74	74,26
Electric	Volt	12 - 24	12 - 24	24 - 220 / 400	24 - 220 / 400	220 / 400	220 / 400
	Motor Power W	320 - 400	400 - 621	1500 - 2000	2000 - 2500	3000 - 4000	4000 - 5500
	Speed Max rpm	15	15	15	19	TBC	TBC
	Weight kg	18	31	43	135	230	390
Hydraulic	Int. pressure drop Bar	-	140	140	-	70 / 140	-
	Oil flow L/min	-	12,5	25	-	45 / 20	-
	Furler speed rpm	-	13,5	18	-	22 / 5,5	-
	Weight kg	-	27	55	-	195	-

*with sail fully open

** calculated on an intermediate Ø

160 mm on mandrel Ø 110
200 mm on mandrel Ø 140
260 mm on mandrel Ø 182

320 mm on mandrel Ø 235
400 mm on mandrel Ø 280
550 mm on mandrel Ø 360



BFBMM (A87)

manual boom furling device

Bamar BFBMM is a new and innovative line of manual mainsail furling mechanisms to be installed on furling booms manufactured by any boom maker.

The unit has a cylindrical shape, designed to be housed inside the mainsail furling mandrel. It is controlled by an endless line which operates a furling pulley equipped with an easy handling manual mechanical lock to allow you keep reefing positions.

The kit may be completed by an optional boom toggle.

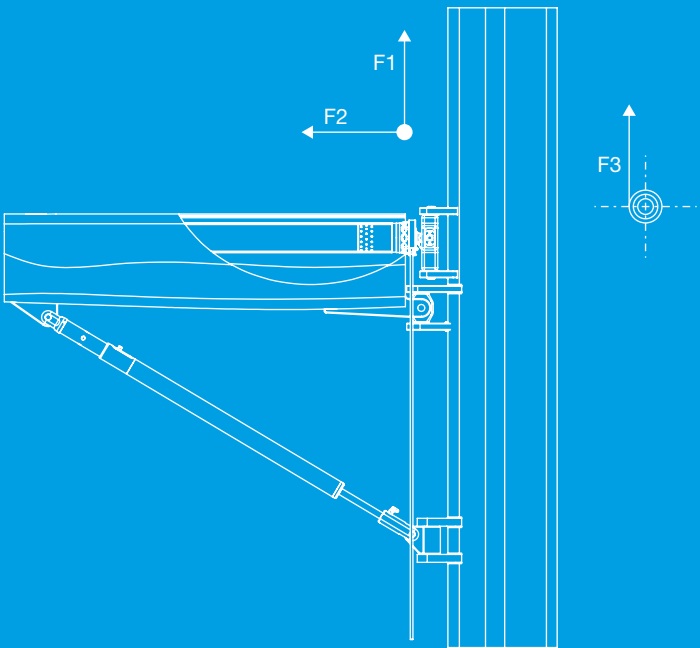
The series is available in two sizes:

- 110 for mandrels with external Ø 110 mm – max boom E length 6 m approx
- 140 for mandrels with external Ø 140 mm – max boom E length 8 m approx

Electric upgrade with Bamar BFBME motorizations is possible.

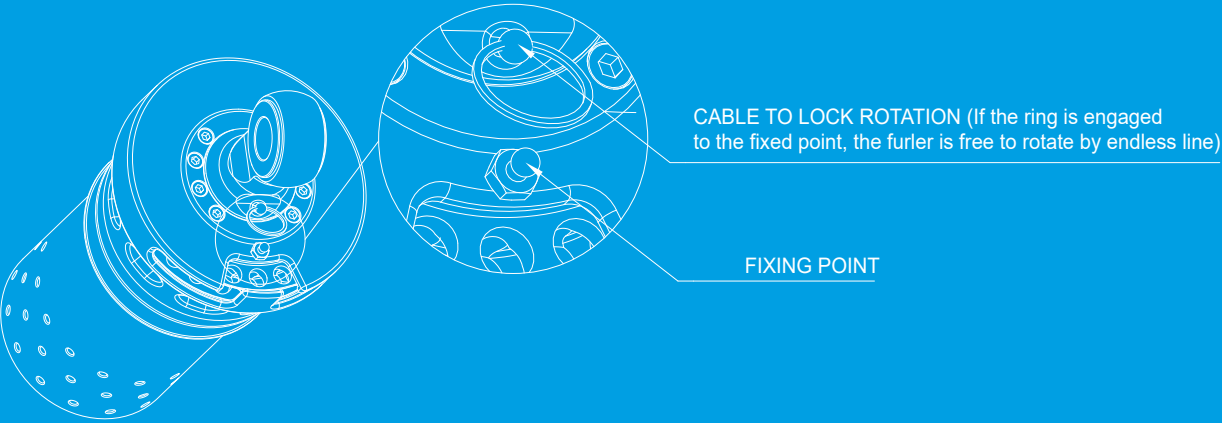
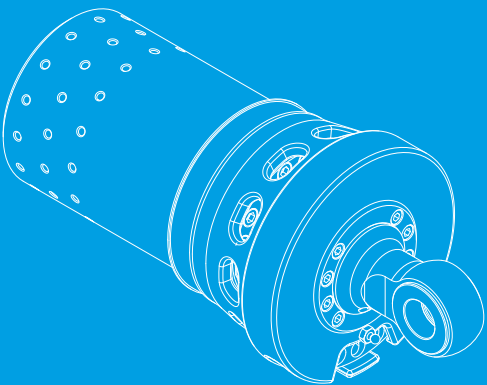
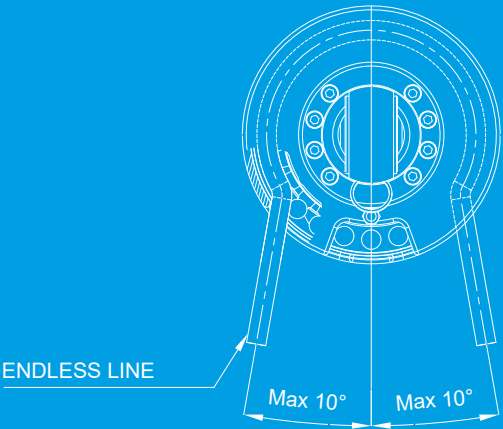
Size 140 may also be hydraulically motorized. You will be able to keep same mandrel and toggle, and install the equivalent motorized version.

Bamar BFBMM is not only compact and easy to install, but it also allows for the minimum distance between aft-face of the mast and sail tack. This makes sail hoisting and furling in easier and neater.



Mandrel External Ø mm	110	140
Boom max length (indicative not binding) m	6	8
F1 Vertical Pull max WL* t	1,5	2,5
F2 Horizontal Pull max WL* t	1	2
F3 Reefed Sail Vertical max WL** t	1,5	2,5
Weight kg	10	14 - 17

*with sail fully open ** calculated on an intermediate Ø 160 mm on mandrel Ø 110
200 mm on mandrel Ø 140



GFM (B13) - (B15)

manual foresail furler

Manual foresail furler available in different sizes C0, C0T, C1, C2, C3, C4, C5 and C6 (for either 1x19 Wire stays from Ø 4 to Ø 26 mm, or Rod from #10 to #91). The kit is supplied complete with aluminum furling foils and halyard swivel. It is equipped with link plates which may be cut to measure in order to customize tack height.

The furling drum rotates on a double race of ball bearings, which do not require neither lubrication nor maintenance. The furling drum is hollow inside, thus allowing for a turnbuckle to be housed inside and for the stay to pass through.

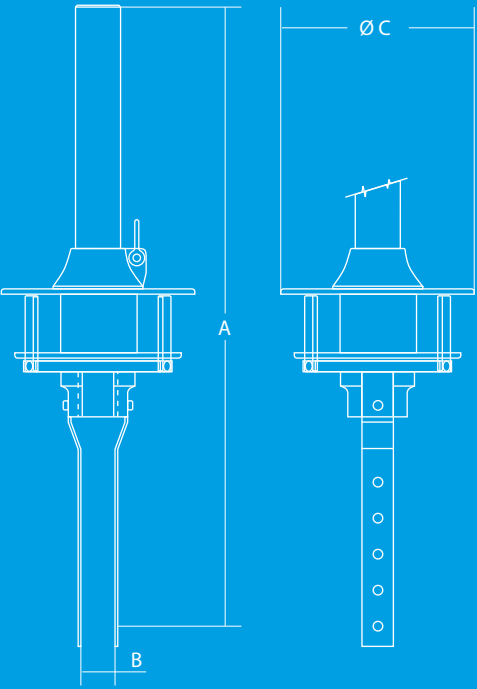
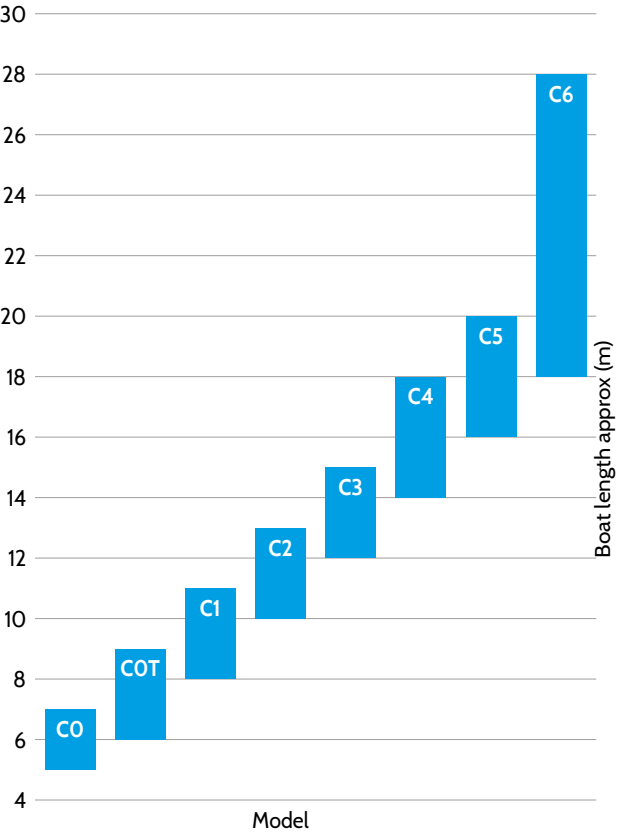
The drum is entirely made in anodized aluminum alloy and s.s. parts are insulated by means of a nylon film. It has been conceived in order to be easily fitted by means of simple tools.

C6 drum is entirely manufactured in polished s.s.

- +

Drum rotates on a double ball bearing race
- +

Halyard swivel rotates on a double ball bearing race



Model	A mm	B mm	Ø C mm
C0 / C0T	482	28	132
C1	500	30	179
C2	692	37	214
C3	788	50	266
C4	788	50	266
C5	1014	93	286
C6	933	109	365

Model	C0	C0T	C1	C2	C3	C4	C5	C6
Max forestay Ø mm	4 - 7	4 - 7	5 - 8	8 - 10	10 - 12	12 - 14	14 - 16	26
Equivalent in # rod	-10	-10	-10	-17	-22	-30	-48	-60 -76 -91
Clevis pin Ø mm	8-10	8-10-12	8-10-12	12-14-16	16-18-22	16-18-22	21,5-22-25	35
Foil type	BMG30R	BMG30R	BMG30R	BMG40R	BMG40R	BMG50R	BMG-52-60	BMG-60-70-80
Foil length m	1,5	1,5	1,5	1,5	1,5	1,5	3,0	3,0
Weight kg/m	0,66	0,66	0,66	0,92	0,92	1,32	2,44	2,44 - 2,7 - 3
Furling line	Included	Not included						
Max sail area (m² 150%)	27	30	45	70	100	135	150	-
Max stay length (suggested) m	9	10,5	15	18	19,5	21	25	33
Drum weight kg	1,6	1,6	2,8	4	5,8	6	14	65

FT furler^(B10)

flat tack foresail furler

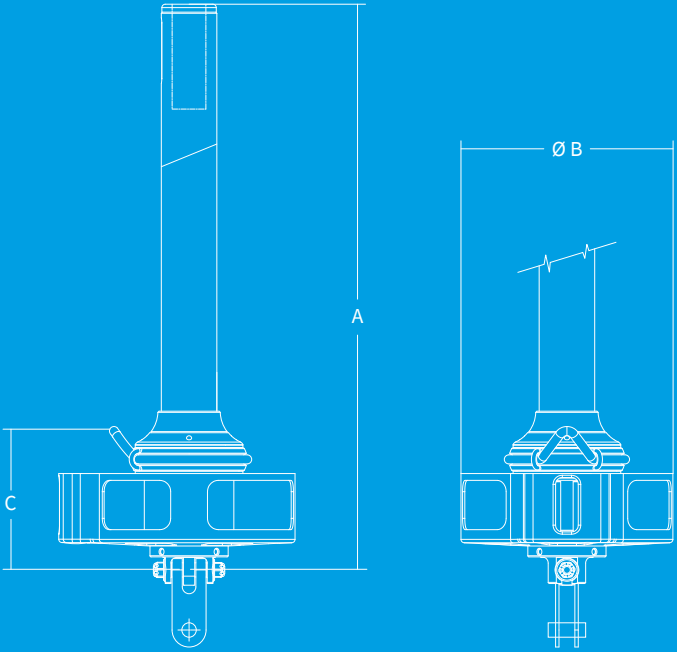
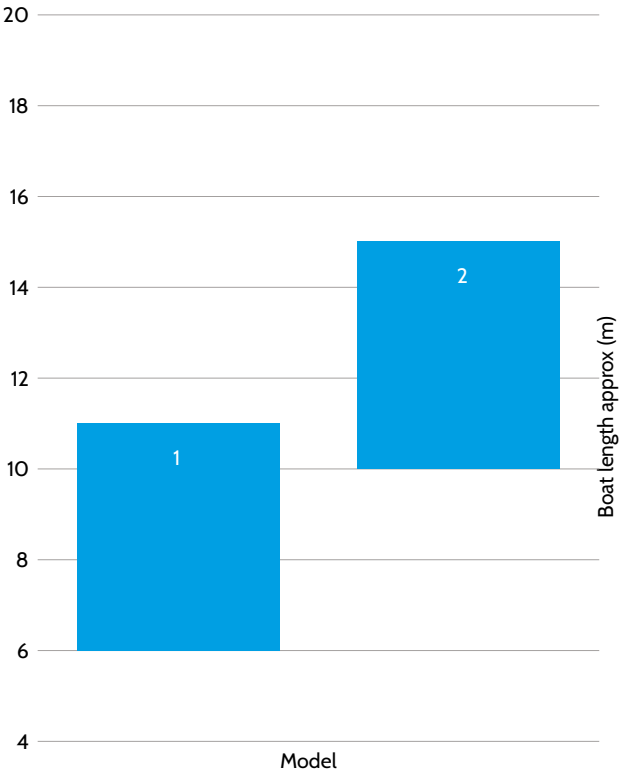
This range of manual foresail furlers is born. It is characterized by a low tack fitting above deck.

As in the the GFM Crociera series, the operating mechanism works with free Delrin (Ø 10 mm) ball bearing races running on races machined from solid hardcote anodized aluminium.

This new line of drums called “Flat Tack Furler” (FT Furler) is to be matched with the classic set of Bamar BMG 30 -40 -50 R furling foils.

Extreme operational ease, light weight, reduced overall dimensions and very low maintenance are the some of the key elements that identify this new model. It combines unique characteristics with a particularly compact layout very low above deck, Maximum sail luff length and center of gravity benefit from these features.

Like all Bamar products, the unit is machined from certified noble metals through CNC machines. We start from “solid” blocks of material to guarantee quality, reliability, robustness and functionality. The shapes and construction of the stowing drum have been studied and tested in the most severe conditions during ocean races around the world.



Model	A mm	Ø B mm	C mm
1	499	187	130
2	710	240	160

Model	1	2
Max forestay Ø mm	4 - 8	8 - 12
Equivalent in # rod	-10 / -12	-12 / -17 / -22
Clevis pin Ø mm	7,9 - 9,5 - 11,1 - 12,7	12,7 - 15,9 - 19,1
Foil type	BMG30R	BMG40R
Foil length m	1,5	1,5
Weight kg/m	0,66	0,92
Furling line	Not included	
Max sail area (m² 150%)	45	100
Max stay length (suggested) m	15	19,5
Drum weight kg	3,5	6,5

GFI (B57)

hydraulic foresail furler

Bamar “GFI” series: hydraulic systems to furl and reef sails. A combination of innovative technology and experience gained while working with prestigious boat yards.

These furlers offer and grant high performances and long duration, since they are designed and manufactured from high quality materials by means of CNC machines.

Mechanisms that require very low maintenance, with vanguard transmission systems. The use of high quality industrial products, bearings, gears, and endless screw, create a smooth and silent reduction gear with automatic stop.

The high torque output is granted by the use of orbital hydraulic motors. The worm screw reduction gear is an irreversible mechanism which absorbs the torque created by the sail area without passing it onto the hydraulic motor.

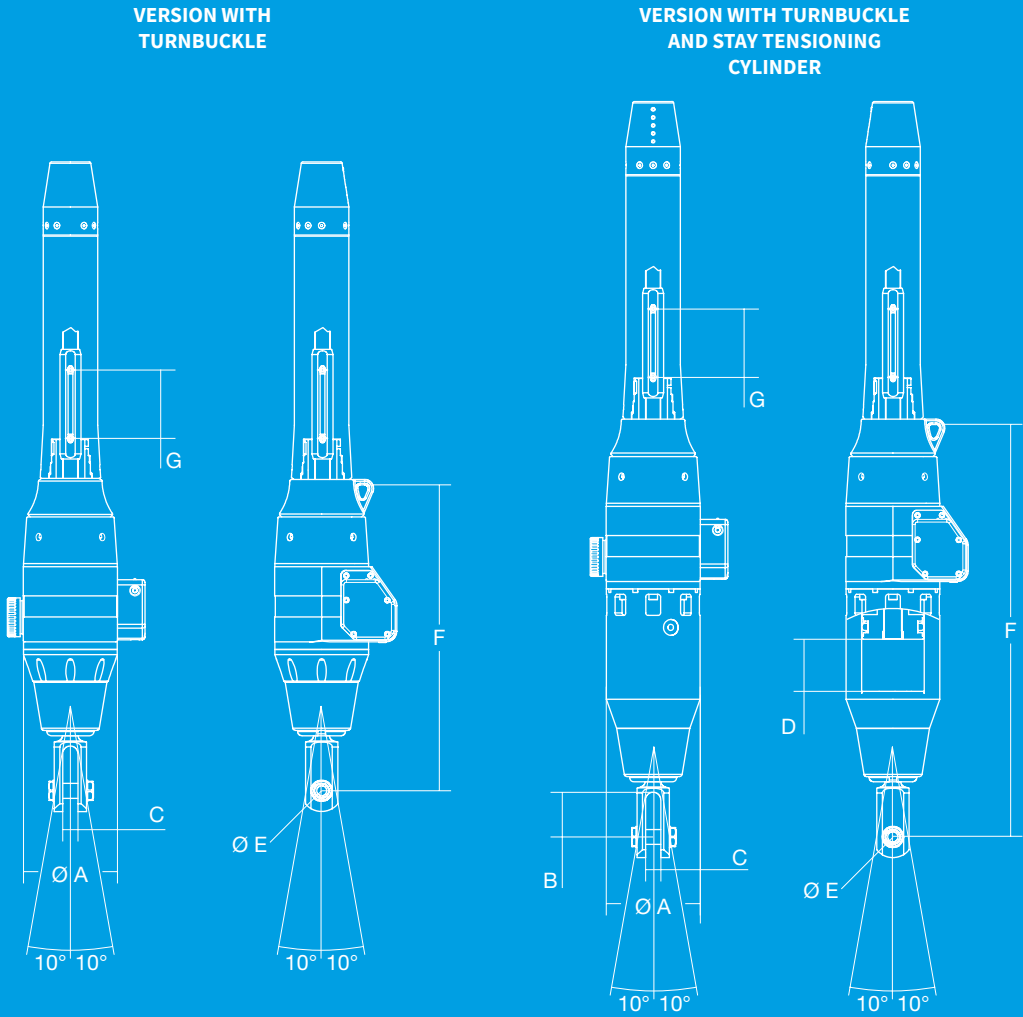
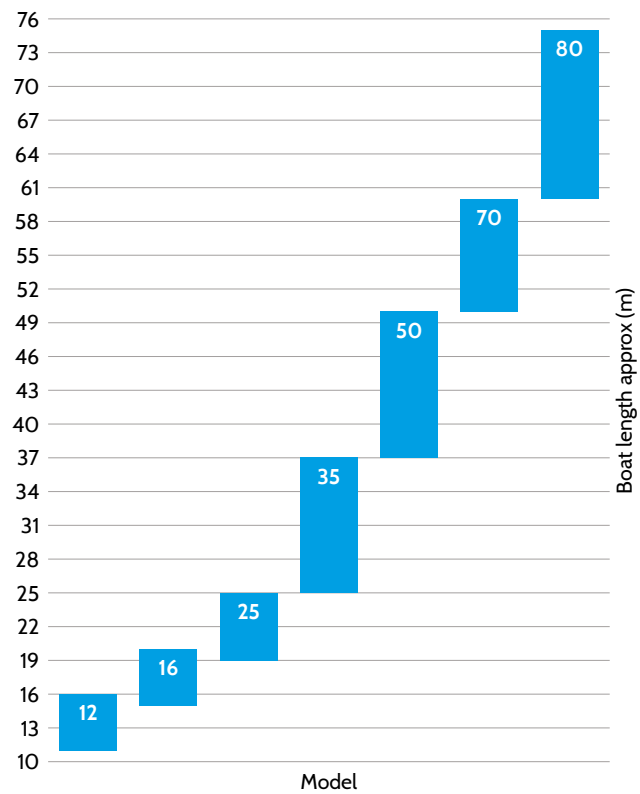
The GFI series is equipped with a stay tensioning turnbuckle. Standard bodies are made from black hardcote anodized aluminium alloy.

These furlers are equipped with manual emergency clutch to be operated through a standard winch handle.

- +

Safety protection on manual emergency clutch.
- +

Available in the “C” version with integrated hydraulic stay tensioner.



Model	Ø A mm	B mm	C mm	D mm	Ø E mm	F mm	G mm
12 - 12 C	148	40	29	100	15,6 - 25	492 - 680	100
16 - 16 C	177	50	29	100	25 - 28,5	558 - 760	100
25 - 25 C	197	88	35	150	31,5 - 35	621 - 884	150
35 - 35 C	227	115	46	150	35 - 44	729 - 984	150
50 C	240	custom	custom	300	custom	1324	210
70	-	-	-	-	-	-	-
80	-	-	-	-	-	-	-

Model	12 - 12 C	16 - 16 C	25 - 25 C	35 - 35 C	50 C	70	80
Max forestay Ø mm	10-16	16-19	22-26	26-32	-	-	-
Equivalent in # rod	-30 -40	-40 -48	-60 -91	-91 -170	-170 -260	-320 -430	- 540 -640
Clevis pin Ø mm	15,6-25	25-28,5	31,5-35	35-44	custom	custom	custom
Foil type	BMG52-60	BMG60-70	BMG80-90	BMG80-90-110	BMG110-125	BMG125-185	BMG185-S9,5-S10
Weight kg	26-32	42-52	55-74	95-116	201	-	-
Max stay length (suggested) m	27	33	40 - 42	48	60	70	-

*Monothread only

EJF (B46)

electric foresail furler

EJF has been developed combining technology and design. The evolution of technology in the sailing world grows more and more towards semiautomatic mechanisms which satisfy the demand for performance, reliability and quality.

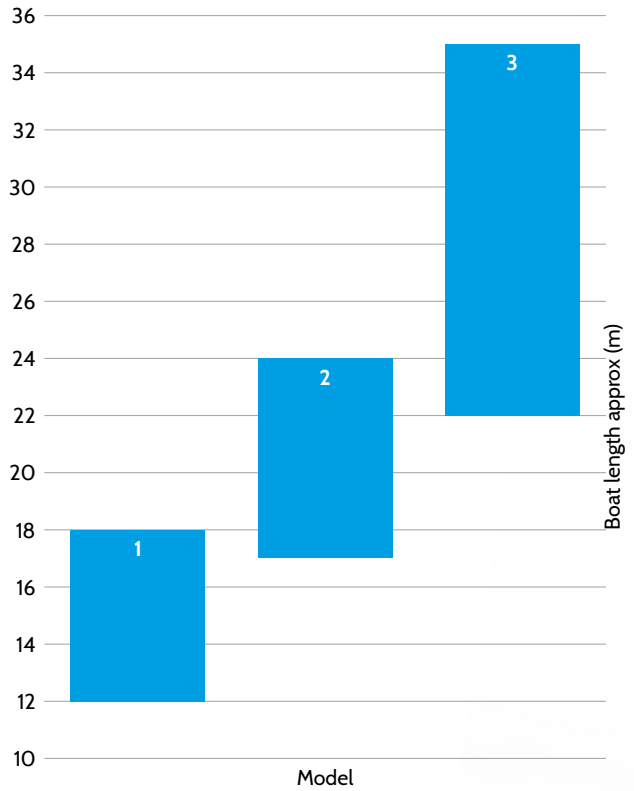
Bamar presents this new line of electric foresail Furlers that guarantee unique specifications, increased torque force, easy installation, low maintenance, thus improving comfort and safety onboard.

The reversible furling is based on a epicyclical mechanism to obtain high performance efficiency, whereas a magnetic brake (E/M) guarantees the mechanical lock both after complete furling in, and in any reefed sail position.

Standard bodies of the EJF series are made from black hardcote anodized aluminium alloy.

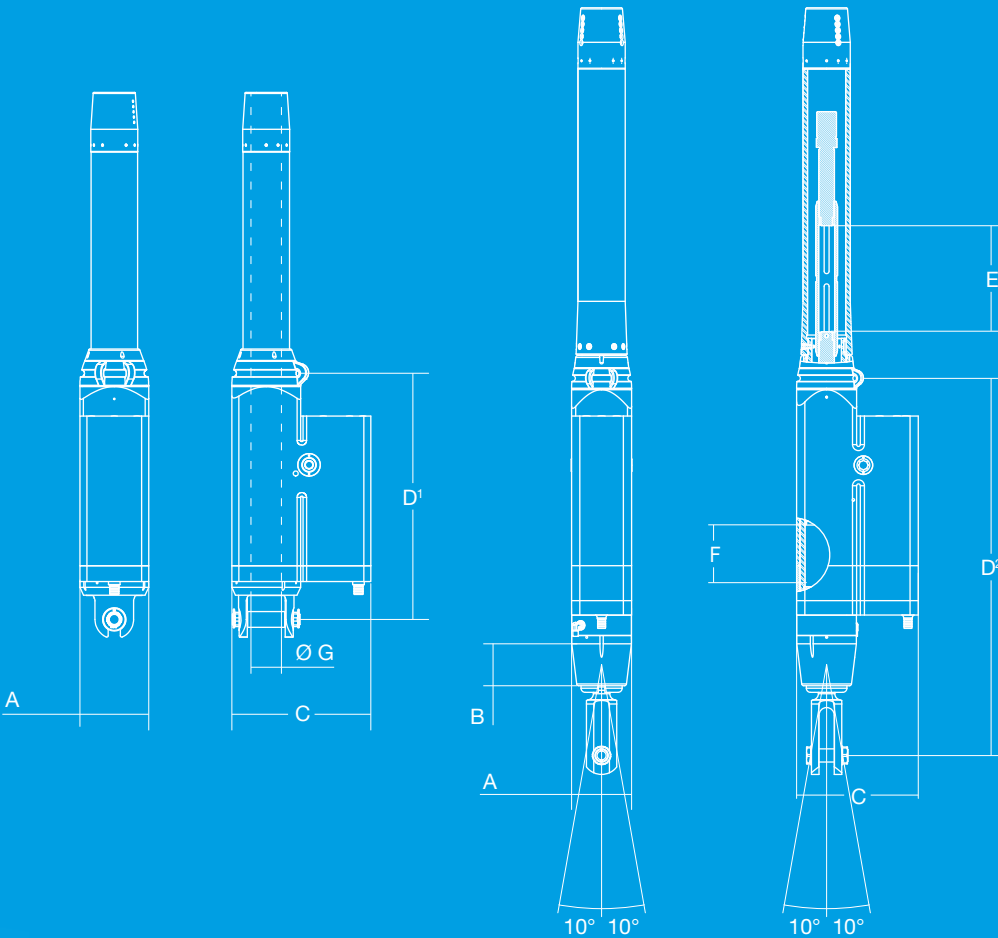
Polished s.s. available upon demand.

- + Idle manual emergency when the system is electrically operated.
- + High performance reduction gear with epicycllic transmission.
- + Available in the "C" version with integrated hydraulic stay tensioner.



STANDARD VERSION

VERSION WITH TURNBUCKLE AND STAY TENSIONING CYLINDER



Model	A mm	B mm	C mm	D ¹ mm	D ² mm	E mm	F mm	Ø G mm
1	98	-	198	437	-	-	-	52
2 - 2 C	146	80	296	580	827	258	150	72
3 - 3 C	196	155	396	700	986	162	155	104

Model	1	2 - 2 C	3 - 3 C
Max forestay wire Ø mm	14	26	32
Equivalent in # rod	-48	-76/-91	-115/-150
Clevis pin Ø mm	15,6/25	25/34,6	custom
Foil type	BMG40 - 50R - BMG52	BMG - 60 - 70 - 80	BMG 90 - 110
Weight kg	20	65 - 95	120 - 195
Max sail area (m² 150%)	100	220	310
Max stay length (suggested) m	26	33	44

