



BARTELS

Furling. Reefing. Sailing.



Furling Systems for Code0 and Gennaker

Performance Series | Competition Series

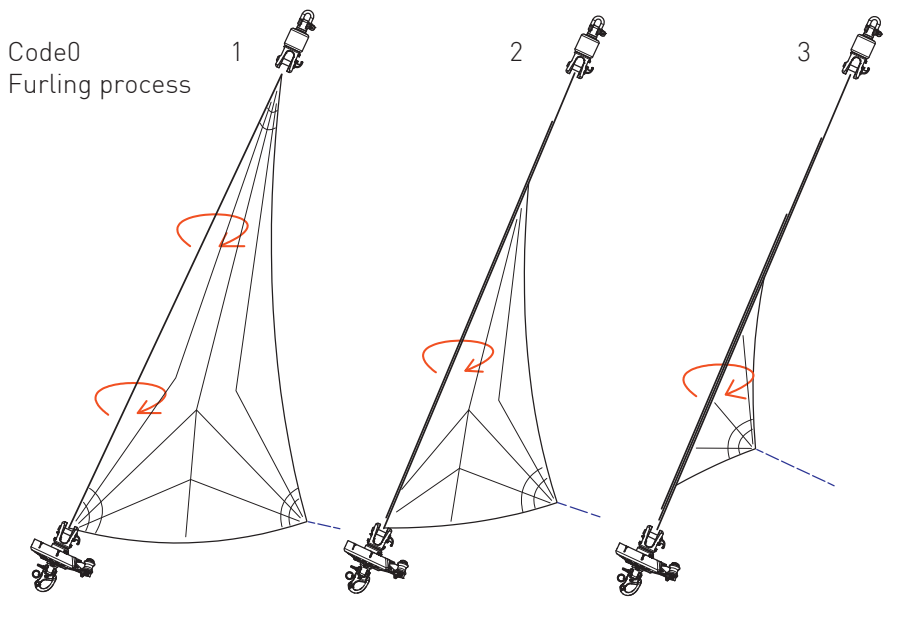


Yacht

TESTSIEGER

09/2017

Code0



Code0

For furling large, flying sails. The sail furls around an AT-cable, which is sewn into the luff of the sail. It is bent onto the furler and swivel by means of special thimbles that are pressed into the ends of the AT-cable. The thimbles are connected by quick-locking pins to the swivel and furler.

The Code Zero is usually bent onto the bow fitting or the bowsprit, in front of the fixed forestay. The furled sail can be dropped and re-hoisted very easily.

The endless rope is easily removable* from the furler and can be left on deck in case the sail and furler are stowed together (rope guidance see page 11).

- Code0
- Topgenoa
- Light-wind sail

All types of sails which have a straight luff and are hoisted in front of the forestay.

As a special variant also strong wind sails / Kutterstage be executed as flying sails. Depending on the size of the sail we recommend a 2: 1 halyard reduction (halyard shackle on the swivel)

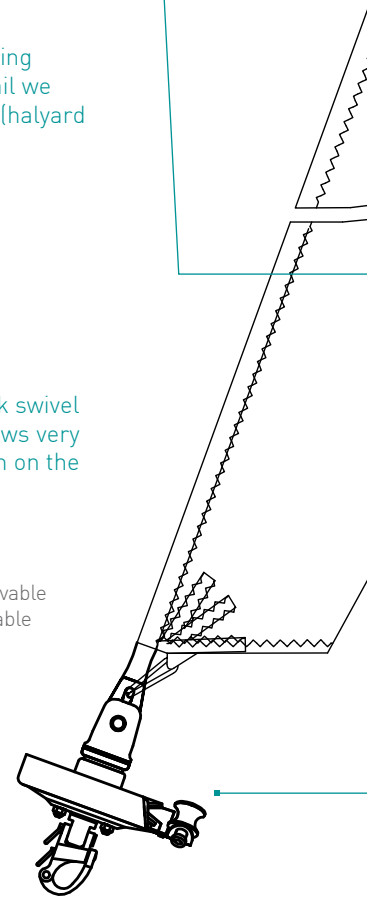
Dual use

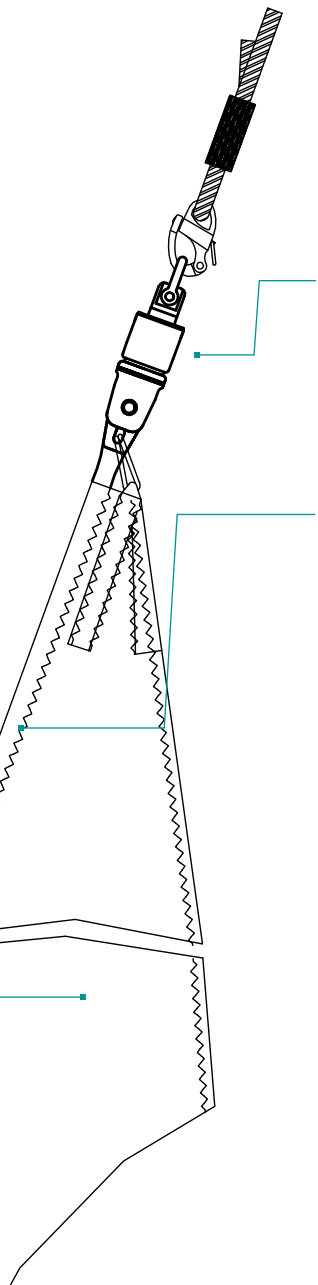
Furling Code Zero sails and Gennakers:

A Code Zero furling system can be converted to a Gennaker furling system by attaching a tack swivel. The tack swivel can be bent straight onto the furler, or attached via an adapter in the jaw of the furler. Using an adapter allows very quick sail changes, for example, between the Code Zero and Gennaker. The tack swivel and tack stop remain on the Gennaker AT-cable, for example, when changing to a Code Zero.



- * For Size V endless rope only as option removable
- ** For Size I tack swivel only by adapter available
- *** For Size I and Size V not available





Halyard

with snap schackle
Option: 2:1 Halyard shackle

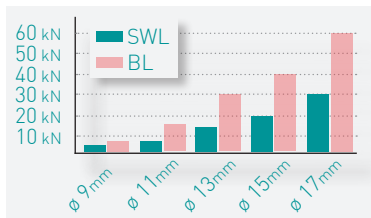


Halyard swivel

- Aluminum and stainless steel version
- Smooth / maintenance-free ball bearings
- Bumper made of rubber
- Quick-release pin
- Optional: 2:1 halyard shackle

AT-Cable

- High quality AT-cable (high rigidity / low torsion)
- Thimbles firmly pressed at the ends
- AT cable sewn in the luff of the sail
- Tested strengths SWL / BL



Assembled
Code0 AT-Cable

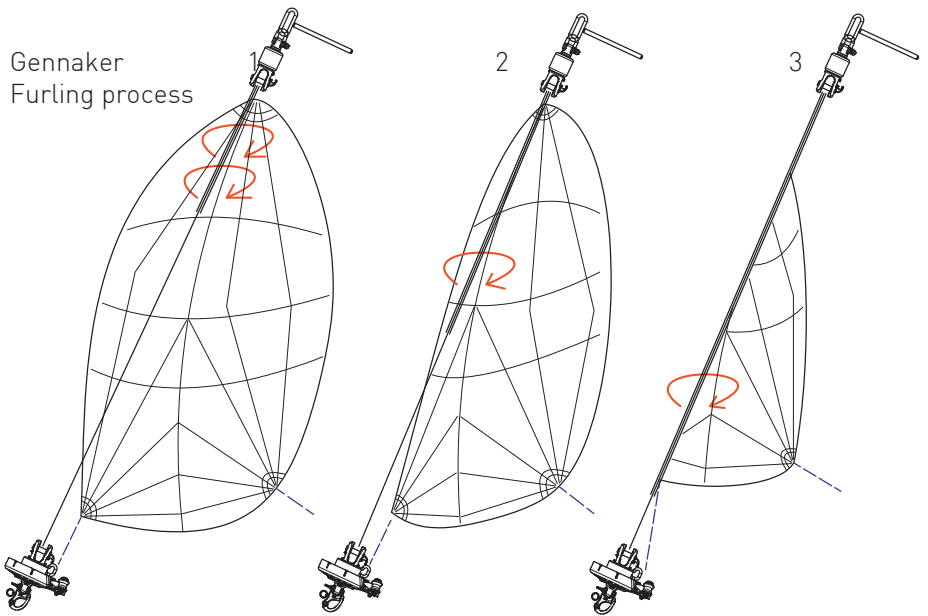


Endless rope furler

- Aluminum and stainless steel version
- Smooth / maintenance-free ball bearings
- Feeding rollers for guiding the endless rope
- Orientation of the endless rope outlet adjustable
- Furling in both directions possible
- Endless rope removable from the furler *
- Quick-release pins (captive)
- Snap shackle below (Wichard) ***
- Optional: 2:1 trim shackle below (Wichard) ***



Gennaker



Gennaker

Furling asymmetrical sails (Gennakers) using the top-down method. The sail is furled from the top around an AT-cable with anti-twist sleeve. A safe handling of large sails even with a small crew is guaranteed at all times. The sail can be stowed quickly, safely and in a space-saving manner when furled up.

The head of the sail is bent onto the special thimble on the swivel and the tack of the sail is bent onto a strop on the tack swivel above the furler. The luff of the sail curves automatically depending on the cut of the sail and length of the tack strop. A Gennaker furling system can also be used to furl existing Gennakers, providing that the sail is not cut too deeply and the length of the luff is not significantly greater than the AT-cable.

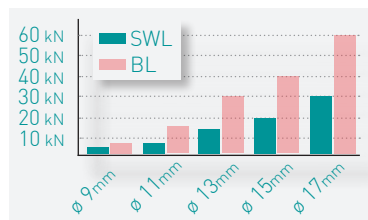
For the furling process, the AT-Cable must be under high tension, therefore, its length under load should always be such that the swivel does not hit the halyard roller box of the mast.

The endless rope is easily removable* from the furler and can be left on deck in case the sail and furler are stowed together (rope guidance see page 11).

- Gennaker
- Asymmetric Sails
- Sails with curved luff

AT-Cable

- High quality AT-cable (high rigidity / low torsion)
- Thimbles firmly pressed at the ends
- AT cable sewn in the luff of the sail
- Tested strengths SWL / BL



Dual use

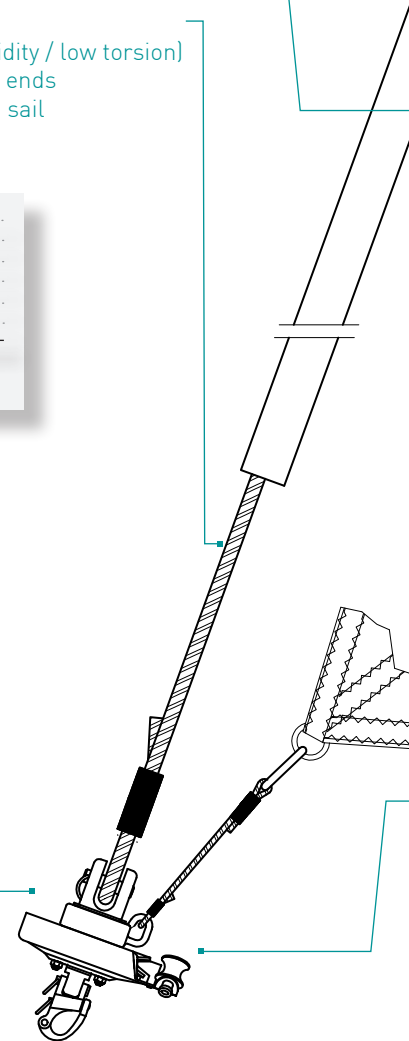
Furling Code Zero sails and Gennakers:

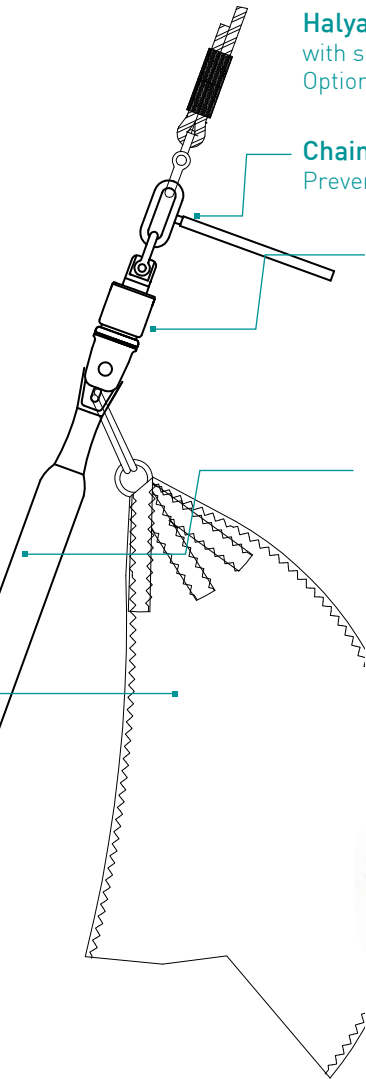
A Code Zero furling system can be converted to a Gennaker furling system by attaching a tack swivel. The tack swivel can be bent straight onto the furler, or attached via an adapter in the jaw of the furler. Using an adapter allows very quick sail changes, for example, between the Code Zero and Gennaker. The tack swivel and tack strop remain on the Gennaker AT-cable, for example, when changing to a Code Zero.



Halyard swivel

to attach the sail tack (with an tack sling)
approx. 0,3-0,4 m length)





Halyard

with snap shackle
Option: 2:1 Halyard shackle

Chain link with stopper

Prevent the halyard from furling with the sail

Halyard swivel

- Aluminum and stainless steel version
- Smooth / maintenance-free ball bearings
- Bumper made of rubber
- Quick-release pin
- Optional: 2:1 halyard shackle



Anti-Twist Sleeve

Gives the AT-cable the possibility to do some turns back, after the furling operation, without jamming the sail. Moreover, the sheath creates a wider furling axle, which allows sails to be furling/dropped quicker.

The high-quality hose (resistant to tearing and UV resistant) incl. End pieces is very light and has no sharp edges which could damage the sail.



Assembled
Gennaker furling system size IV



* For Size V endless rope only as option removable
** For Size I tack swivel only by adapter available
*** For Size I and Size V not available

Endless rope furler

- Aluminum and stainless steel version
- Smooth / maintenance-free ball bearings
- Feeding rollers for guiding the endless rope
- Orientation of the endless rope outlet adjustable
- Furling in both directions possible
- Tack swivel on furler or on adapter
- Endless rope removable from the furler *
- Quick-release pins (captive)
- Snap shackle below (Wichard) ***
- Optional: 2:1 trim shackle below (Wichard) ***



Code0

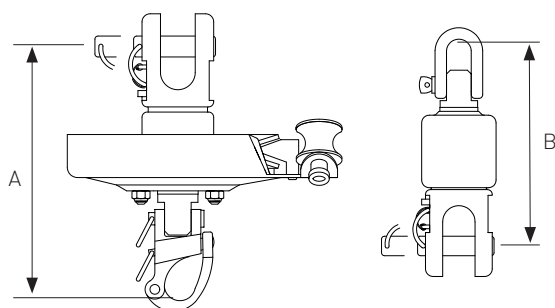
Performance Series

A1-114-x

Endless rope removal
from the furler



	Code0 A1-114-1	Code0 A1-114-2	Code0 A1-114-3	Code0 A1-114-4	Code0 A1-114-5
Specifications					
Max. sail area [m ²]	25	50	70	100	150
Max. length of AT-cable (m)	8	12	15	20	25
Max. working load (kN)	10	15	20	30	40
Breaking load (kN)	20	30	40	60	80
Diameter of furler (mm)	76	108	144	174	211
Diameter of AT-cable (mm)	9	11	13	15	17
Diameter of endless rope (mm)	6	8	10	10	10
Weight furler with snap shackle (kg)	0,43	0,85	1,63	2,30	3,82
Weight halyard swivel with screw shackle (kg)	0,24	0,45	0,80	1,16	1,96
Weight AT-Cable (kg/m)	0,067	0,106	0,125	0,166	0,188
Length of furler (mm) - A	85	124	153	180	192
Length of swivel (mm) - B	85	110	132	154	172
Fork width furler/ swivel (mm)	12	17	20	20	24
Pin ø furler/ swivel (mm)	8	10	12	14	16



Neu / Baugröße I



Size V without figure

** Size I and V with screw pin shackle

	Set I	Set II	Set III	Set IV	Set V
Single parts of the set					
Endless furler Performance Series	FE I-P	FE II-P	FE III-P	FE IV-P	FE V-P
Halyard swivel Performance Series	FAW I-P	FAW II-P	FAW III-P	FAW IV-P	FAW V-P
Thimble (Set/ 2 pieces)	K10	42/220-2	42/220-3	42/220-4	42/117
Snap shackle incl. fork (on the furler)	--	5979-6	5998-6	5999-6	-- **
Length AT cable (m)	8	12	15	20	25
Diameter AT cable (mm)	9	11	13	15	17
Ready-to-install assembly of the AT line with thimbles to the desired fixed length.					
Order number (Set)	Code0-I-P	Code0-II-P	Code0-III-P	Code0-IV-P	Code0-V-P

Gennaker Performance Series A2-114-x

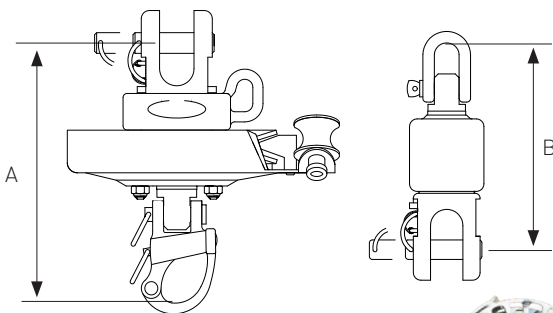


Handling of the quick-locking pin

Yacht
TESTSIEGER

09/2017

Specifications	GENNEX A2-114-1	GENNEX A2-114-2	GENNEX A2-114-3	GENNEX A2-114-4	GENNEX A2-114-5
Max. sail area (m ²)	35	70	100	150	200
Max. length of AT-cable (m)	8	12	15	20	25
Max. working load (kN)	10	15	20	30	40
Breaking load (kN)	20	30	40	60	80
Diameter of furler (mm)	76	108	144	174	211
Diameter of AT-cable (mm)	9	11	13	15	17
Diameter of endless rope (mm)	6	8	10	10	10
Weight furler with snap shackle (kg)	0,53	1,00	1,78	2,75	4,36
Weight halyard swivel with screw shackle (kg)	0,24	0,45	0,80	1,16	1,96
Weight AT-Cable incl. anti twist sleeve (kg/m)	0,097	0,164	0,183	0,235	0,257
Length of furler (mm) - A	85	124	0,22	0,24	0,26
Length of swivel (mm) - B	85	108	153	180	192
Fork width furler/ swivel (mm)	12	17	132	154	172
Pin ø furler/ swivel (mm)	8	10	20	20	24



Neu / Baugröße I

Size V without figure

** Size I and V with screw pin shackle

	Set I	Set II	Set III	Set IV	Set V
Single parts of the set					
Endless furler Performance Series	FE I-P-HW	FE II-P-HW	FE III-P-HW	FE IV-P-HW	FE V-P-HW
Halyard swivel Performance Series	FAW I-P	FAW II-P	FAW III-P	FAW IV-P	FAW V-P
Chain Link with stop (twist stop for halyard)	42/37		42/39		42/48
Thimble (Set/ 2 pieces)	K10	42/220-2	42/220-3	42/220-4	42/117
Snap shackle incl. fork (on the furler)	--	5979-6	5998-6	5999-6	-- **
Tack sling (Dyneema with sheath)	42/49		42/47		on request
AT cable with Antwi Twist sheath (diameter (mm) / length (m))	9 / 8	11 / 12	13 / 15	15 / 20	17 / 25
Ready-to-install assembly of the AT line with thimbles to the desired fixed length.					
Order number (Set)	GENN-I-P	GENN-II-P	GENN-III-P	GENN-IV-P	GENN-V-P

Code0

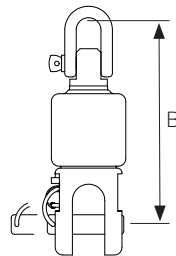
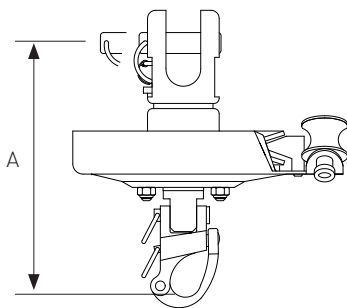
Competition Series

A1-124-x

Endless rope removal
from the furler



	Code0 A1-124-1*	Code0 A1-124-2	Code0 A1-124-3	Code0 A1-124-4	Code0 A1-124-5
Specifications					
Max. sail area (m ²)	--	50	70	100	150
Max. length of AT-cable (m)	--	12	15	20	25
Max. working load (kN)	--	15	20	30	40
Breaking load (kN)	--	30	40	60	80
Diameter of furler (mm)	--	108	144	174	211
Diameter of AT-cable (mm)	--	11	13	15	17
Diameter of endless rope (mm)	--	8	10	10	10
Weight furler with snap shackle (kg)	--	0,55	0,98	1,40	2,14
Weight halyard swivel with screw shackle (kg)	--	0,28	0,55	0,8	1,38
Weight AT-Cable (kg/m)	--	0,106	0,125	0,166	0,188
Length of furler (mm) - A	--	124	153	180	192
Length of swivel (mm) - B	--	110	132	154	172
Fork width furler/ swivel (mm)	--	17	20	20	24
Pin ø furler/ swivel (mm)	--	10	12	14	16



* Size I see Performance series
** Size V with screw pin shackle

Size I and V without figure

	Set I	Set II	Set III	Set IV	Set V
Single parts of the set					
Endless furler Competition Series	--	FE II-L	FE III-L	FE IV-L	FE V-L
Halyard swivel Competition Series	--	FAW II-L	FAW III-L	FAW IV-L	FAW V-L
Thimble (Set/ 2 pieces)	--	42/220-2	42/220-3	42/220-4	42/117
Snap shackle incl. fork (on the furler)	--	5979-6	5998-6	5999-6	-- *
Length AT cable (m)	--	12	15	20	25
Diameter AT cable (mm)	--	11	13	15	17
Ready-to-install assembly of the AT line with thimbles to the desired fixed length.					
Order number (Set)	--	Code0-II-L	Code0-III-L	Code0-IV-L	Code0-V-L

Gennaker Competition Series A2-124-x

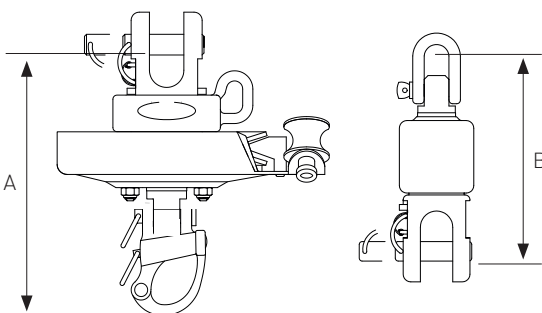


Handling of the quick-locking pin

Yacht
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09/2017

	GENNEX A2-124-1*	GENNEX A2-124-2	GENNEX 2-124-3	GENNEX A2-124-4	GENNEX A2-124-5
Specifications					
Max. sail area (m ²)	--	70	100	150	200
Max. length of the AT-cable (m)	--	12	15	20	20
Max. working load (kN)	--	15	20	30	40
Breaking load (kN)	--	30	40	60	80
Diameter of rope pulley (mm)	--	108	144	174	211
Diameter of AT-cable (mm)	--	11	13	15	17
Diameter of endless rope (mm)	--	8	10	10	10
Weight furler with tack swivel and snap shackle (kg)	--	0,71	1,13	1,85	2,65
Weight swivel with screw shackle (kg)	--	0,28	0,55	0,80	1,38
Weight of AT-cable with Anti-twist sheath (kg/m)	--	0,164	0,183	0,235	0,257
Length of furler (mm) - A	--	124	153	180	192
Length of halyard swivel (mm) - B	--	110	132	154	172
Fork width furler/ swivel (mm)	--	17	20	20	24
Pin ø furler/ swivel (mm)	--	10	12	14	16



* Size I see Performance series
** Size V with screw pin shackle

Size I and V without figure

	Set I	Set II	Set III	Set IV	Set V
Single parts of the set					
Endless furler Competition Series	--	FE II-L-HW	FE III-L-HW	FE IV-L-HW	FE V-L-HW
Halyard swivel Competition Series	--	FAW II-L	FAW III-L	FAW IV-L	FAW V-L
Chain Link with stop (twist stop for halyard)	--	42/37	42/39		42/48
Thimble (Set/ 2 pieces)	--	42/220-2	42/220-3	42/220-4	42/117
Snap shackle incl. fork (on the furler)	--	5979-6	5998-6	5999-6	-- *
Tack sling (Dyneema with sheath)	--		42/47		on request
AT cable with Antwi Twist sheath (diameter (mm) / length (m))	--	11 / 12	13 / 15	15 / 20	17 / 25
Ready-to-install assembly of the AT line with thimbles to the desired fixed length.					
Order number (Set)	--	GENN-II-L	GENN-III-L	GENN-IV-L	GENN-V-L

Accessories



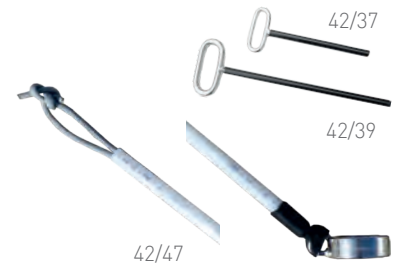
Individual assembly of AT cables (example lengths)

Size	I	II	III	IV	V
Diameter AT-cable (mm)	9	11	13	15	17
Max. Length AT-cable (m)	8	12	15	20	25
SWL / BL (kN)	4 / 8	8 / 16	15 / 30	20 / 40	30 / 60
Kausch	K10	42/220-2	42/220-3	42/220-4	42/117
AT-Leine	2109	2111	2113	2115	2117



Accessories

Size	I	II	III	IV	V
Chain link with stop (Prevents sensitive halyards from twisting by hitting on mast or forestay)	42/37		42/39		42/48
Tack sling (individual adjustable length / Dyneema rope with hose)	42/49	42/47			Auf Anfrage



Tack swivel / tack swivel adapter

Size	I	II	III	IV	V
Tack swivel Fits on furler and tack swivel adapter	42/221 VST	42/105 VST	42/100 VST	42/213 VST	42/214 VST
Tack swivel adapter (without tack swivel)	on request	42/126	42/127	42/128	42/129



Endless rope / Splice

Size	I	II	III	IV	V
Diameter	ø 6 mm	ø 8 mm		ø 10 mm	
Endless rope (Farbe: dunkelblau)	06000	08000		01000	
Manufacturing endless splice	SPL				



Rope Guidance

fix or removable mounted



Endless rope mounted fix

- Endless rope remains always on deck
- Furler remains on deck or can be stored away with the sail (rope can be taken out of the furler with just a few steps)
- The endless rope / furling rope is typically guided up to the cockpit to ensure an safe operation

Set rope guidance (fix installed)

Size	II	III	IV	V
Endless rope (please indicate individual length when ordering)	1 x LE-D8-L14	1 x LE-D8-L16	1 x LE-D10-L20	1 x LE-D10-L24
Guide rollers double/ inside / rotatable	1 x 550-2			
Guide rollers double/ inside / fix	2 x 550-1	3 x 550-1	4 x 550-1	5 x 550-1
Double cam cleat for fixing the endless rope	1 x 23159			
Ball bearing block with rubber cord Redirection and tensioning of the endless rope in the cockpit area	1 x 35250-601-06			
Order number	LF_2_01	LF_3_02	LF_4_03	LF_5_04



Endless rope mounted fix



Endless rope mounted removable



Endless rope "flying" mounted
Roller with elastic cord + snap hook

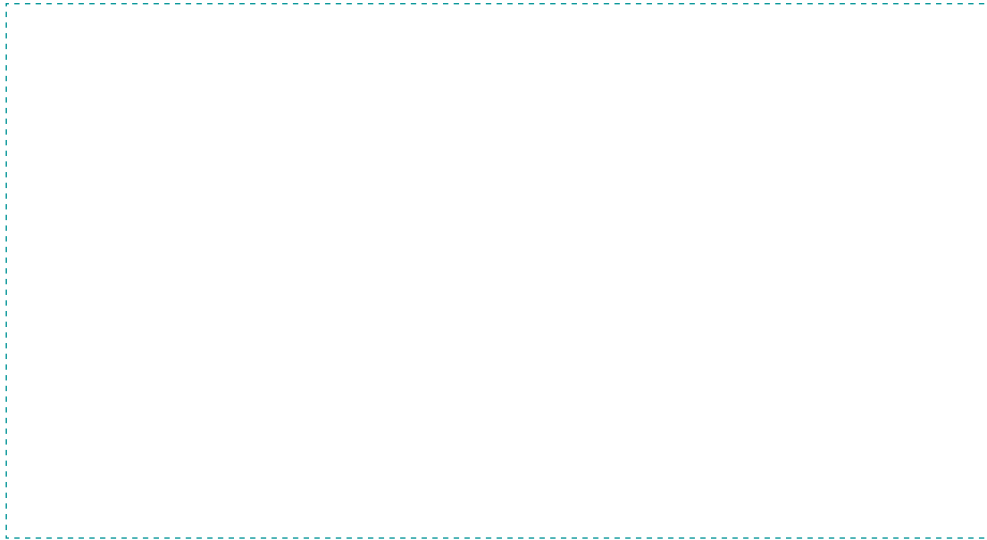
Endless rope mounted removable

- Endless rope is completely stored away together with the furler and the sail
- Just the rope guides remain mounted on the stanchions (the rope can be removed with just a few steps from the guides)
- The endless rope / furling rope is typically guided to the cockpit to ensure a safe operation

Set rope guidance (removable installed)

Baugröße	II	III	IV	V
Endless rope (please indicate individual length when ordering)	1 x LE-D8-L14	1 x LE-D8-L16	1 x LE-D10-L20	1 x LE-D10-L24
Rope guide double / rope easy removable	2 x 940-501-01	3 x 940-501-01	4 x 940-501-01	5 x 940-501-01
Tandem block with snap shackle Redirection and fixing of the end- less rope in the cockpit area	1 x 940-501-02			
Order number	LF_2_05	LF_3_06	LF_4_07	LF_5_08

BARTELS Dealer nearby



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