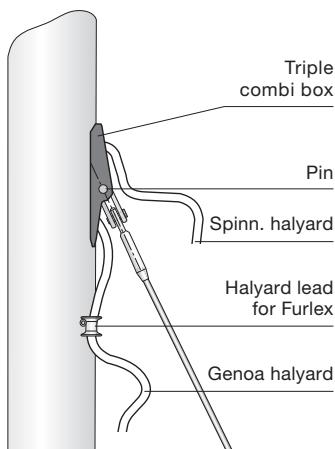


# Forestay fittings and halyard routing

## Cutter stay on masthead rigs

On fractional rigs the forestay fitting is either fitted directly on to the mast or combined with the halyard box (Seldén combi boxes). The forestay is often attached to the fitting with a toggle.

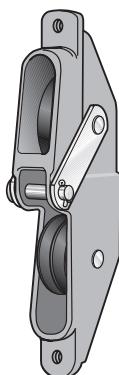
The stainless strap of the combi box wraps around the whole box and serves as a reinforcement that takes up the loads from the forestay. It also locks the sheave axles in the right position. The combi box penetrates deep inside the mast, allowing the spinnaker halyard to run freely past the genoa halyard. This solution substantially increases the durability and service life of the halyards. See illustration on page 21.



**Combi box**



Art. No. 505-067-10.



Art. No. 505-018-03.

**Separate genoa box**

| Wire dia. mm | Combi box Art. No. | Max rope dia. mm | Genoa box single Art. No. | Genoa box double Art. No. | Max dia., mm rope/wire, (only rope) |
|--------------|--------------------|------------------|---------------------------|---------------------------|-------------------------------------|
| 6            | 505-052-01         | 16               | 505-067-10                | 505-053-01                | 10/5                                |
| 7            | 505-052-02         | 16               | R190, R213:<br>505-040-10 |                           | (12)                                |
| 8            | 505-052-03*        | 16               | 505-037-01                | 505-059-01                | 14/7                                |
| 10           | 505-058-01         | 20               | 505-041-01                |                           | (16)                                |

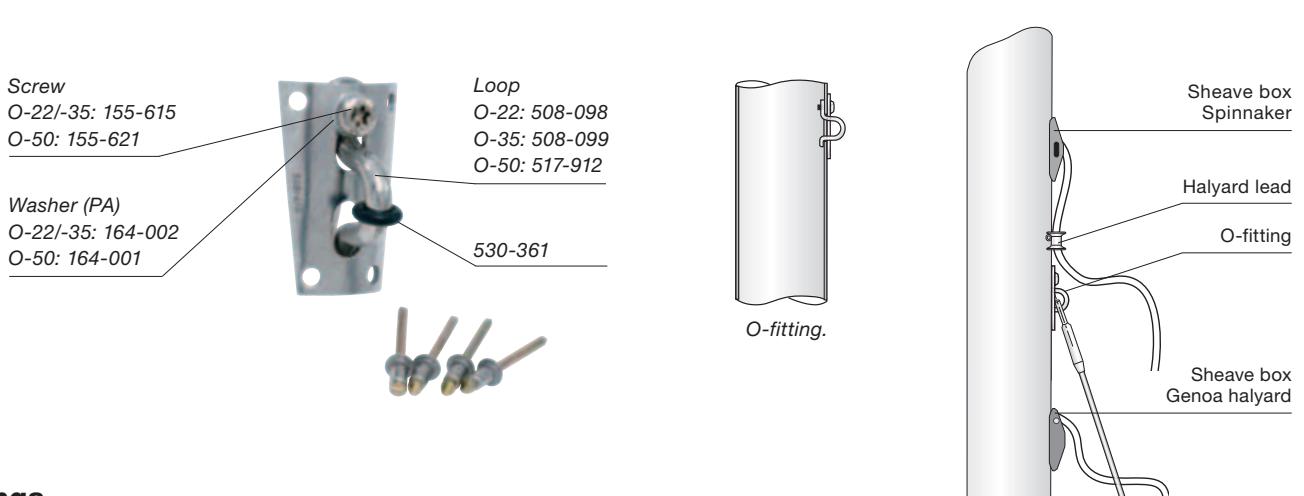
\* Bushing for clevis pin, Art. No. 306-577 (in case you drop it).

## Triple combi boxes

| Wire dia. mm | Triple combi box Art. No. | Characteristics       | Max spinnaker halyard dia., mm | Max genoa halyard dia., mm rope/wire (only rope) | Furlex halyard lead Art. No. | Furlex halyard box, single Art. No. | Furlex halyard box, double Art. No. | Max. dia., mm rope/wire (only/rope) |
|--------------|---------------------------|-----------------------|--------------------------------|--|------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 4            | 505-011-01                | 1 x spinnaker halyard | 12                             | 10/4   | 508-159-01                   | 505-004-10                          | -                                   | 10/4                                |
| 5            |                           | 1 genoa halyard       |                                | (12)   |                              |                                     |                                     | (12)                                |



Combi box Art. No. 505-052-01  
combined with double genoa box  
Art. No. 505-053-01.



## O-fittings

| Wire dia.<br>mm | Fitting | Art. No.   | Limits  | To be combined with... |                     |                            |                              |                              |                           |  |
|-----------------|---------|------------|---|------------------------|---------------------|----------------------------|------------------------------|------------------------------|---------------------------|--|
|                 |         |            |   | Genoa box<br>single    | Genoa box<br>double | Spinnaker<br>box<br>single | Spinnaker<br>box<br>double   | Single<br>halyard<br>lead    | Double<br>halyard<br>lead |  |
| 4               | O-22    | 517-904-01 | Max F212, C245<br>R232, R260,<br>R290           | 505-004-10             | 505-053-01          | 505-004-10                 | 505-053-01                   | 508-159-01                   | 2 x 508-159-01            |  |
| 5               |         |            |   | 505-006-10             |                     | 505-006-10                 |                              |                              |                           |  |
| 6               | O-35    | 517-905-01 | Max F212, C264<br>Not E274, R232,<br>R260, R290 | 505-012-01             | 505-059-01          | 505-059-01                 | 508-120-01 or<br>508-734-01* | 508-120-01 or<br>508-734-01* |                           |  |
| 7               | O-50    | 517-911-01 |   |                        |                     |                            |                              |                              |                           |  |
| 8               | O-50    | 517-911-01 | Max C227  | 505-037-01             | 505-059-01          |                            |                              |                              |                           |  |

\* Intended only for rope (not rope/wire).

For more information about halyard leads, see page 26.

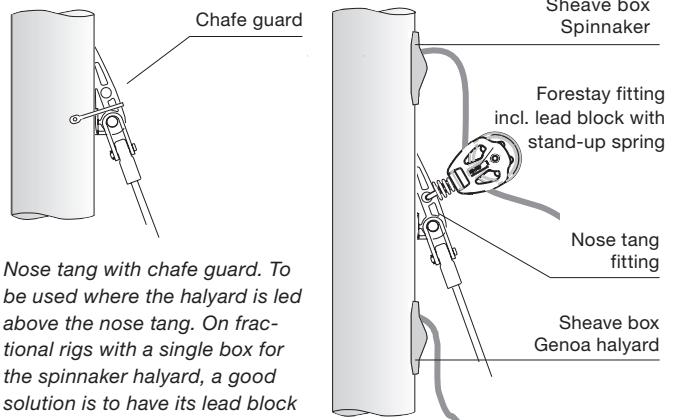


Note. Never put a forestay fitting or a halyard box in the tapered area. Applies to masts with E-sections where the weld for the taper is on the forward side of the mast.

| Wire dia.<br>mm | Art. No.    | To be combined with... |                        |                            |                            |                                  |                                  |
|-----------------|-------------|------------------------|------------------------|----------------------------|----------------------------|----------------------------------|----------------------------------|
|                 |             | Genoa<br>box<br>single | Genoa<br>box<br>double | Spinnaker<br>box<br>single | Spinnaker<br>box<br>double | Single<br>halyard<br>lead        | Double<br>halyard<br>lead        |
| 3               | 507-553-01* | 505-004-10             | 505-053-01             | 505-040-10                 | 505-053-01                 | 508-159-01                       | 2 x<br>508-159-01                |
| 4               | 507-551-01* |                        |                        |                            |                            |                                  |                                  |
| 5               | 507-552-01* |                        |                        |                            |                            |                                  |                                  |
| 6               | 507-560-01* | 505-006-10             |                        | 505-006-10                 | 505-012-10                 | 508-120-01<br>or<br>508-734-01** | 508-120-01<br>or<br>508-734-01** |
| 6/E274          | 507-600-01  |                        |                        |                            |                            |                                  |                                  |
| 6/R-sections    | 507-560-02* |                        |                        |                            |                            |                                  |                                  |
| 7               | 507-561-01* |                        |                        |                            |                            |                                  |                                  |
| 7/E274          | 507-601-01  |                        |                        |                            |                            |                                  |                                  |
| 7/R-sections    | 507-561-02* | 505-037-01             | 505-059-01             | 505-059-01                 | 505-059-01                 | 508-120-01<br>or<br>508-734-01** | 508-120-01<br>or<br>508-734-01** |
| 8               | 507-562-01* |                        |                        |                            |                            |                                  |                                  |
| 8/E274          | 507-582-01  |                        |                        |                            |                            |                                  |                                  |
| 8/R-sections    | 507-562-02* |                        |                        |                            |                            |                                  |                                  |

\* Min F176

\*\* Intended only for rope (not rope/wire).



*Nose tang with chafe guard. To be used where the halyard is led above the nose tang. On fractional rigs with a single box for the spinnaker halyard, a good solution is to have its lead block attached to the forestay fitting. Seldén offers complete kits with forestay fitting, including the appropriate lead block. Seldén also offers sheave box kits complete with fasteners.*

## Nose tang fittings, incl. toggle

| Wire dia. mm | Description                           | Art. No.   | Toggle length mm | To be combined with...     |                                    |                          |                          |                          |                          |                               |  |
|--------------|---------------------------------------|------------|------------------|----------------------------|------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------|--|
|              |                                       |            |                  | Spring for spinnaker block | Genoa box single                   | Genoa box double         | Spinnaker box single     | Spinnaker box double     | Single halyard lead      | Double halyard lead           |  |
| 6            | Nose tang fitting/ toggle             | 517-923-03 | 40               | 308-074                    | 505-067-10                         | 505-053-01               | 505-067-10               | 505-053-01               | 508-159-01 or 508-847-01 | 2x 508-159-01 or 508-734-01*  |  |
|              | Nose tang fitting/ toggle/chafe guard | 517-923-07 |                  |                            |                                    |                          |                          |                          |                          |                               |  |
|              | Nose tang fitting/ toggle/lead block  | 517-923-01 |                  |                            |                                    |                          |                          |                          |                          |                               |  |
| 7            | Nose tang fitting/ toggle             | 517-923-04 |                  | 505-037-01                 | 505-059-01                         | 505-012-10               | 505-059-01               |                          |                          | 2x 508-128-01 or 508-735-01*  |  |
|              | Nose tang fitting/ toggle/chafe guard | 517-923-08 |                  |                            |                                    |                          |                          |                          |                          |                               |  |
|              | Nose tang fitting/ toggle/lead block  | 517-923-02 |                  |                            |                                    |                          |                          |                          |                          |                               |  |
| 8            | Nose tang fitting/ toggle             | 517-924-03 | 50               | 505-041-01                 |                                    | 505-012-10               | 505-059-01               |                          | 508-128-01 or 508-848-01 | 2x 508-128-01 or 508-735-01*  |  |
|              | Nose tang fitting/ toggle/chafe guard | 517-924-05 |                  |                            |                                    |                          |                          |                          |                          |                               |  |
|              | Nose tang fitting/ toggle/lead block  | 517-924-08 |                  |                            |                                    |                          |                          |                          |                          |                               |  |
| 10           | Nose tang fitting/ toggle             | 517-924-04 | 55               | 505-041-01                 |                                    | 505-059-01               |                          | 505-059-01               | 508-128-01 or 508-848-01 |                               |  |
|              | Nose tang fitting/ toggle/chafe guard | 517-924-06 |                  |                            |                                    |                          |                          |                          |                          |                               |  |
|              | Nose tang fitting/ toggle/lead block  | 517-924-09 |                  |                            |                                    |                          |                          |                          |                          |                               |  |
| 12           | Nose tang fitting/ toggle             | 517-925-02 | 65               | 308-037                    | 505-041-01<br>505-042-01<br>RM<160 | 505-059-01<br>RM<120 kNm | 505-038-01<br>RM<120 kNm | 505-051-01<br>RM<120 kNm |                          | 2x 508-128-01** or 508-839-01 |  |
|              | Nose tang fitting/ toggle/chafe guard | 517-925-03 |                  |                            |                                    |                          |                          |                          |                          |                               |  |
|              | Nose tang fitting/ toggle/lead block  | 517-925-05 |                  |                            |                                    |                          |                          |                          |                          |                               |  |
| 14           | Nose tang fitting/ toggle             | 517-915-02 | 80               | 505-038-01                 | 505-051-01                         | 505-038-02<br>RM<160 kNm | 505-051-02<br>RM<160 kNm |                          |                          |                               |  |
|              | Nose tang fitting/ toggle/chafe guard | 517-915-03 |                  |                            |                                    |                          |                          |                          |                          |                               |  |
| 16           | Nose tang fitting/ toggle             | 517-932-02 | -                | 508-038-02                 | 505-051-02                         | 505-116-01               | 505-113-01               | -                        | 508-837-01               |                               |  |
|              | Nose tang fitting/ toggle/chafe guard | 517-932-03 |                  |                            |                                    |                          |                          |                          |                          |                               |  |

\* Intended only for rope (not rope/wire). \*\* Only to control genoa halyards.

The routing of halyards is always important, but particularly so on yachts with jib furling and reefing systems.

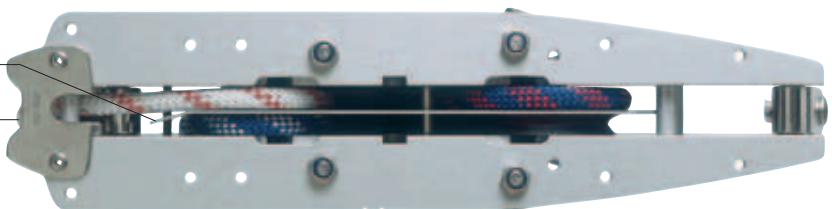
A properly installed halyard box provides optimum halyard routing. Seldén offers a complete range of halyard boxes. You can choose between our range of single- or double halyard boxes shown in the table on the next page. You can also use halyard leads (see below).

Seldén halyard leads are made from chromed bronze, so that the relatively soft bronze will not damage a stainless steel wire halyard. The halyard leads are easily retrofitted to an existing mast.

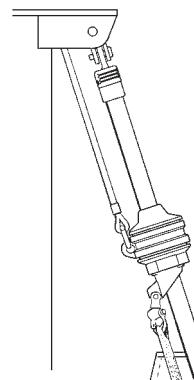
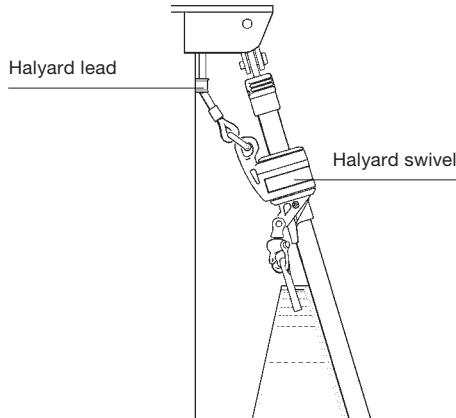
On yachts with furling systems, correct halyard routing ensures that the halyard does not wrap around the fore-stay extrusion when furling the foresail.

Separator

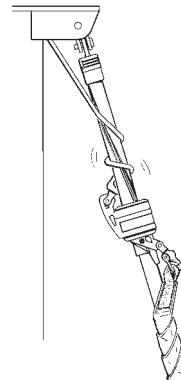
Gently rounded lead



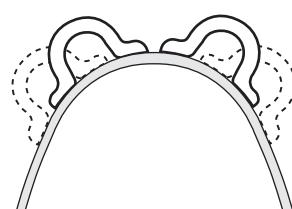
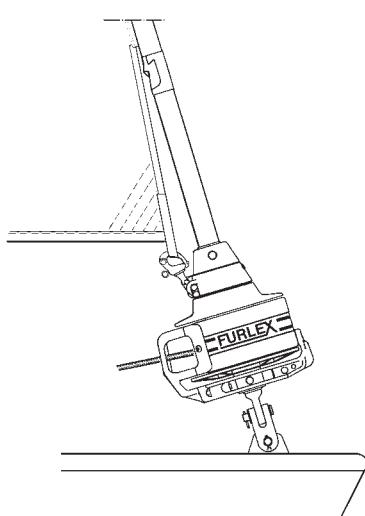
*Masthead headbox for C211-C301 and F212-F406. The headbox fitting has a gently rounded lead for a masthead spinnaker and gennaker. The separator is slightly angled at its front end to lead the halyard on to the sheave.*



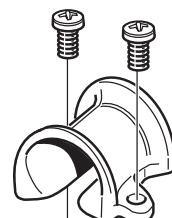
*Unproper halyard routing leads to...*



*... halyard wrap!*



*The halyard leads can be fitted side by side or moved round the side of the mast if there is a lack of space*



*The halyard leads come with an insulating sheet and fasteners.*

## Sheave boxes, slot fittings

| Max rope dia., mm | Max Wire/rope dia., mm | Description                                  | Art. No.   | Pin safe work load, kN | Width of slot | Remark               |
|-------------------|------------------------|--|------------|------------------------|---------------|----------------------|
| 8                 | -                      | Sheave box 35 x 10 (composite), screw fix    | 505-061-02 | 7                      |               |                      |
| 8                 | -                      | Sheave box 35 x 10 (composite), rivet fix    | 505-061-03 | 7                      |               |                      |
| 12                | -                      | Sheave box 45 x 13 (composite), rivet fix    | 505-072-01 | 8                      |               |                      |
| 12                | 10/4                   | AL-45 kit                                    | 505-004-10 | 8                      |               | Min F176             |
| 12                | 10/4                   | AL-57 kit                                    | 505-040-10 | 8                      |               | Min F176             |
| 12                | 10/5                   | AL-70 kit                                    | 505-006-10 | 12                     |               | Min F176             |
| 12                | 10/5                   | C70 kit* (composite)                         | 505-067-10 | 15                     |               | Min C156             |
| 12                | 10/5                   | Double sheave box Ø 70 x 13 (AL, pop rivets) | 505-053-01 | 12                     |               | Min F194<br>Min C156 |
| 12                | 10/5                   | Double sheave box Ø 70 x 13 (AL, screws)     | 505-053-03 | 12                     |               | Min F194<br>Min C156 |
| 16                | 12/6                   | Sheave box Ø 70 x 16 (AL)                    | 505-037-01 | 25                     |               | Min F212             |
| 16                | 14/7                   | AL-90 kit                                    | 505-012-10 | 25                     |               | Min F212             |
| 16                | 14/7                   | Sheave box Ø 90 x 16 (ST)                    | 505-041-01 | 25                     |               | Min F228             |
| 16                | 14/7                   | Double sheave box Ø 90 x 16 (AL)             | 505-059-01 | 25                     |               | Min F228             |
| 20                | 16/8                   | Sheave box Ø 130 x 20, aft (ST)              | 505-038-01 | 25                     |               | Min F286             |
| 20                | 16/8                   | Sheave box Ø 130 x 20, aft, extra wide (ST)  | 505-055-01 | 25                     |               | Min F286             |
| 20                | 16/8                   | Double sheave box Ø 130 x 20, aft (ST)       | 505-051-01 | 25                     |               | Min F324             |
| 20                | 16/8                   | Sheave box Ø 130 x 20, forward (ST)          | 505-042-01 | 25                     |               | Min F286             |
| 20                | 16/8                   | Sheave box Ø 130 x 20, aft (ST)              | 505-038-02 | 32                     |               | Min F286             |
| 8                 | 8/4                    | Slot fitting, small (ST)                     | 505-017-01 |                        | 10            |                      |
| 14                | 12/5                   | Slot fitting, medium (ST)                    | 505-014-01 |                        | 14            |                      |
| 16                | 14/7                   | Slot fitting, large (ST)                     | 505-021-01 |                        | 18            |                      |
| 20                | 16/8                   | Slot fitting, x-large (ST)                   | 505-025-01 |                        | 24            |                      |

\* Spinnaker halyard/lift box; always combine with halyard lead.

AL = Aluminium

ST = Stainless steel



AL-45, Art. No. 505-004-10.



AL-70, Art. No. 505-006-10.



AL-90, Art. No. 505-012-10.

Available as complete kits including fasteners and assembly instructions.



The "aft" sheave box is fitted above the "forward" sheave box in order to avoid halyard wear.

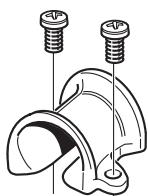


Slot fittings reduce friction and avoid wear from the wire halyards on the mast extrusion.

## Halyard leads

Fitted below a halyard box, the halyard lead prevents a spinnaker halyard, gennaker halyard or Code 0 halyard from chafing against the edges of the box. Also used to lead a jib halyard correctly from a furling system to the halyard box preventing halyard wrap.

| Rope | Max. dia., mm<br>Wire/<br>rope | Halyard lead<br>Art. No. | Max RM<br>Fractional<br>kNm | Max RM<br>Top hoisted<br>kNm | Remarks  |
|------|--------------------------------|--------------------------|-----------------------------|------------------------------|--|
| 12   | 10/5                           | 508-159-01               | 13                          | 15                           | Single halyard lead in chromed bronze, including pop rivets and insulating plate. Not to be used for a Code 0 halyard.   |
| 12   | 10/5                           | 508-159-03               |                             |                              | Single halyard lead in chromed bronze, including Ø 5.3 mm self-tapping screws and insulating plate. Not to be used for a Code 0 halyard.   |
| 20   | 16/8                           | 508-128-01               |                             |                              | Single halyard lead in chromed bronze, including pop rivets and insulating plate. Not to be used for a Code 0 halyard.   |
| 20   | 16/8                           | 508-128-03               |                             |                              | Single halyard lead in chromed bronze, including Ø 5.3 mm self-tapping screws and insulating plate. Not to be used for a Code 0 halyard.   |
| 12   | -                              | 508-734-01               | 50                          | 57                           | Double halyard lead fitting in stainless steel. Includes pop rivets. The fitting is to be lacquered inside to insulate it from the mast. This fitting must only be used with rope (not wire halyards). Intended for C156-F212. |
| 14   | -                              | 508-735-01               | 75                          | 85                           | Double halyard lead fitting in stainless steel. Includes pop rivets. The fitting is to be lacquered inside to insulate it from the mast. This fitting must only be used with rope (not wire halyards). Intended for C227-F286. |
| 12   | -                              | 508-847-01               | 45                          | 50                           | Single halyard lead fitting in stainless steel. Includes pop rivets. The fitting is to be lacquered inside to insulate it from the mast. This fitting must only be used with rope (not wire halyards). Intended for C156-F212. |
| 14   | -                              | 508-848-01               | 65                          | 72                           | Single halyard lead fitting in stainless steel. Includes pop rivets. The fitting is to be lacquered inside to insulate it from the mast. This fitting must only be used with rope (not wire halyards). Intended for C227-F286. |
| 14   | -                              | 508-839-10               | 110                         | 125                          | Double halyard lead fitting in stainless steel. Includes fasteners and insulating washer. This fitting must only be used with rope (not wire halyards). Intended for C304-F305.  |
| 16   | -                              | 508-837-10               | 180                         | 200                          | Double halyard lead fitting in stainless steel. Includes fasteners and insulating washer. This fitting must only be used with rope (not wire halyards). Intended for C365-F370.  |



Single halyard lead,  
Art. No. 508-159-01.  
Art. No. 508-128-01.



Double halyard lead,  
Art. No. 508-734-01.



Double halyard lead,  
Art. No. 508-735-01.



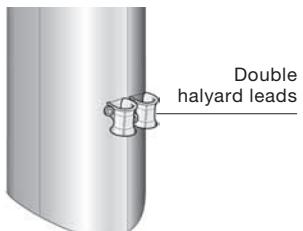
Single halyard lead,  
Art. No. 508-847-01.



Single halyard lead,  
Art. No. 508-848-01.



Double halyard lead,  
Art. No. 508-837-10.



## Quick sail handling with barber haulers for the halyards

Being able to change the spinnaker set from fractional to masthead in a few seconds can be crucial for the racing sailor. Seldén has developed a system of barber haulers to achieve this. When tightened, the spinnaker has a fractional set. When released, the spinnaker reverts to masthead set.

The halyards run through barber hauler rings and are used for spinnakers and jibs, enabling just two halyards to achieve four functions. What foredeck crew would not appreciate having fewer lines to deal with?

The barber haulers are smaller diameter than the halyards, which saves weight aloft.

**Quick handling**

**Minimum halyards**

**Low weight**



*Masthead hoist*



*Fractional hoist*

