



# KYC Crane Lift Information Package

KYC has been working with Fleet representatives and Western Equipment Ltd. to come up with a set of load-rated lifting sling specs to improve safety while launching and recovering boats at the KYC pier.

**As of May 31, 2014, no vessel will be able to use KYC lifts without gear in place appropriate to its Class. See below for images and descriptions applicable for each One Design class.**

**As of May 31, 2014, no member may use the club hoist without appropriate insurance for their vessel. A copy of the proof of insurance must be filed with the office.**

KYC will require a load-test every 3 years of the lifting straps and other components that you purchase as it will become a condition of your Moorage Agreement, just as Liability Insurance is. A group arrangement will be made with Western Equipment for that testing process in 2014.

Orders for component types can be made with **Steve Haynes**, General Manager ~ Tel: 604.730.1646

## M242

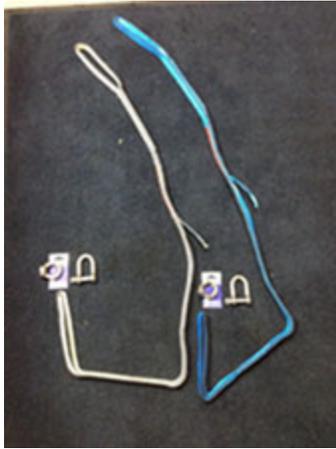
*(also applicable for M24 class because of the similar nature of the keel bolt and cabin-top configurations)*

Here are the specs that have been developed for the **M242 Class** for those boats that wish to use the KYC crane.

1. Two separate GRP811305.3 lifting slings that are 1" wide by 5'3" long & 1" wide by 5'4" long. Each strap is a type 3 - 1 Ply that comes with flat eyes at each end to attach shackles or crane lift-hooks to. They are load-rated for 3,000 lbs each with a breaking strength of 15,000 lbs each.
2. The straps are configured so that two of them will fit through the average M242 lifting sling hole in the cabin-top (see photo), with one strap attaching to the aft keel bolt, and the other strap attaching to the next keel bolt forward (see photo)
3. **PLEASE NOTE:** Only use Sharpie pens on the straps if you wish to mark your name or boat number on them. All other felt pen types degrade the straps over time and weaken the

material.

4. For those that do not already have them, KYC also requires each owner to purchase 2 ½" Wichard eye-nuts, load-rated at 7,500 kg. In some cases there will not be enough bolt threads showing, and the existing keel nut(s) will need to be spun off and the eye-nut(s) take its place. As such, the new eye-nut(s) must be properly tensioned so it will not come loose with usage.
5. 2 ½" shackles are required for connecting the above Wichard eye-nuts to the straps. Model # SHD 16 stainless steel, load-tested to 7,500 kg.



Full Kit (M242)



Lower Attachments (M242)



Upper Loops (M242)

## STAR

Here are the specs that have been developed for the **Star Class** for those boats that wish to use the KYC crane:

1. Two green GRP/Western Equipment primary lifting slings that are 4' long and load-rated for 6,000 lbs each and two yellow secondary straps that are also 4' long and load-rated for 3,000 lbs each. Breaking strength for each strap type is 5:1.
2. **PLEASE NOTE:** Only use Sharpie pens on the straps if you wish to mark your name or boat number on them. All other felt pen types degrade the straps over time and weaken the material.
3. For those that do not already have them, KYC also requires each owner to purchase a choice of either:
4. a) two 13/32 inch stainless steel Wichard bow shackles for connecting the above straps to the lift points. Model #WIC1245, load tested to 1,520 kg or 3,344 lbs. Breaking strength is 4,300 kg or 9,460 lbs.

5. b) two 15/32 inch stainless steel Wichard bow shackles for connecting the above straps to the lift points. Model #WIC1246, load tested to 2,080 kg or 4,576 lbs. Breaking strength is 6,000 kg or 13,200 lbs.
- c) two 3/8 inch thick, 3 1/2" long, stainless steel SeaDog carabiners for connecting the above straps to the lift points. Model #153710-1, with a breaking strength of 15,800 lbs.



**Lift Strap Combo (Star)**

## Melges 24

Here are the specs that have been developed for the Melges 24 Class for those boats that wish to use the KYC crane:

1. Three purple polyester Western Equipment primary lifting slings that are 4' 3" long and load-rated for 3,000 lbs each (there is an option to have straps made that are 5'3" long). Breaking strength for each strap is 5:1. Two purple straps connect to the existing lift points on either side of the keel, per usual practice. The middle purple strap connects to the ring bolt on the keel when it is in the down position and will have about 3" of slack in it as a safety strap. This means all 3 straps are completely interchangeable.
2. One white GRP/Western Equipment secondary lifting sling loop that is 1' long and load-rated for 3,000 lbs (NOTE: if the 5'3" purple strap option is chosen above, this white strap needs to be 3' long, not 1'). Breaking strength for this strap type is 5:1. This strap loops through the keel ring when the keel is in the "UP" position, and the two strap loop ends then clip to the crane hook. There will be about 3" or so of slack in this strap system.
3. **PLEASE NOTE:** Only use Sharpie pens on the straps if you wish to mark your name or boat number on them. All other felt pen types degrade the straps over time and weaken the material.

4. For those that do not already have them, KYC also requires each owner to purchase three 3/8 inch stainless steel Seadog bow shackles for connecting the above straps in item 1 to the lift points. Model #316, with a breaking strength of 9,900 lbs.



**Lift Strap Combo (Melges 24)**

## Lightning Class

Here are the specs that have been developed for the Lightning Class for those boats that wish to use the KYC crane:

1. As the Lightnings have different configurations for their lifting points, each vessel will require their own load-rated straps and load-rated attachments custom set-up to their own boat. Existing lifting rigs that are not load-rated can be used as a template for a load-rated rig. Owners should consult with the KYC General Manager regarding the minimum requirements: **Steve Haynes**, General Manager ~ Tel: 604.730.1646

**PLEASE NOTE:** Only use Sharpie pens on the straps if you wish to mark your name or boat number on them. All other felt pen types degrade the straps over time and weaken the material.

## PHRF/ORC

PHRF/ORC boats that wish to use the KYC crane are also required to have load-rated straps and load-rated attachments such as shackles and keel bolt eye-nuts. As each boat will likely require a custom set-up, owners should consult with the KYC General Manager regarding the minimum requirements: **Steve Haynes**, General Manager ~ Tel: 604.730.1646

**PLEASE NOTE:** Only use Sharpie pens on the straps if you wish to mark your name or boat number on them. All other felt pen types degrade the straps over time and weaken the material.

## **DINGHIES, TENDERS, POWERBOATS**

Dinghies, tenders, and powerboats that wish to use the KYC crane are also required to have load-rated straps and load-rated attachments such as shackles and bolt eye-nuts. As each boat will likely require a custom set-up, owners should consult with the KYC General Manager regarding the minimum requirements:

**Steve Haynes**, General Manager ~ Tel: 604.730.1646

**PLEASE NOTE:** Only use Sharpie pens on the straps if you wish to mark your name or boat number on them. All other felt pen types degrade the straps over time and weaken the material.