

HENRIKSEN HOOKS

**HOOKS**  
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# HMKRWH

REMOTE RELEASE OFF-LOAD HOOKS



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Rev.: -1

M000442

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REDUCING OPERATIONAL RISK

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## GENERAL

- Read this user manual carefully before you use the hook and save it for future reference.
- Operational scenarios with corresponding risk evaluations must be well known for the operators.
- It is important that the hook is inspected and maintained periodically to ensure a safe and well-functioning equipment.
- Monthly controls by the operators are limited to visual check and practical operations.
- All necessary examination and maintenance shall be carried out by authorized service personal.
- Annual inspection course for Henriksen hooks is available online, please check our website for more information.
- 5-years thorough examination and overhaul require authorized service personnel trained according to H. Henriksen AS specific procedures to ensure continued compliance with MED-B and MED-D certification for the hook.

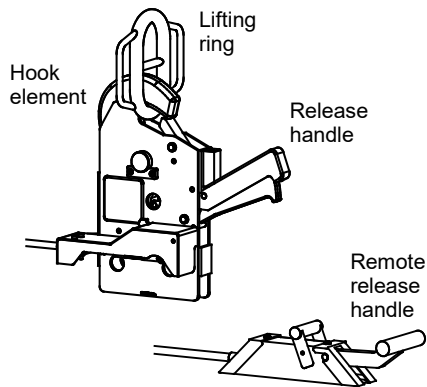
The mandatory 5-years overhaul consist of replacement of load bearing components and recertification according to factory acceptance procedures.

- Any unauthorized repair, service and/or parts used in the hook will violate the certification, safety and warranty.
- Contact the manufacturer in case of any visible damage and/or if malfunction occurs.

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### LAUNCH

- 1 Check the following before launch:
  - the hook element is in closed position
  - the lifting ring is properly placed
  - the release handle on the hook is in the high (closed) position
  - the remote release handle is in the closed position
  - the hook is free of any impurities or ice



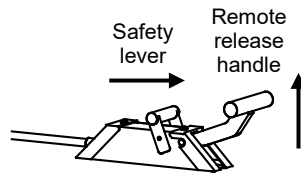
- 2 Start the lowering process with a continuous motion.

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**3** When the boat is close to the water surface activate the hook.

**On the remote release unit:**

- pull the safety lever
- set the remote release handle to the open (activated) position and release the safety lever
- verify that the remote release handle is locked in the open position.



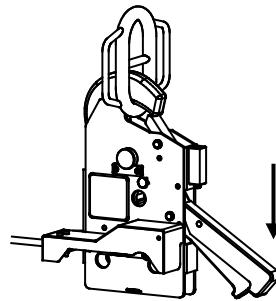
The release handle on the hook moves to the open (activated) position at the same time.

Or

**On the hook:**

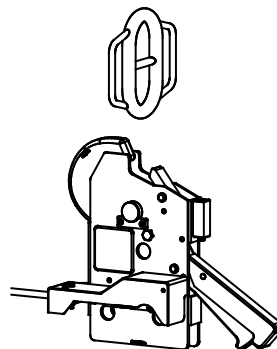
- Compress the handle lever and set the release handle to the low (activated) position.

NB! The remote release handle remains in the closed position in this case.



**4** Stand back and take a safe stand-by position.

**5** When the boat is waterborne and the hook is off-loaded, the hook will open automatically and release the lifting ring.

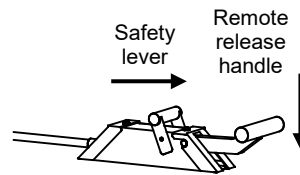


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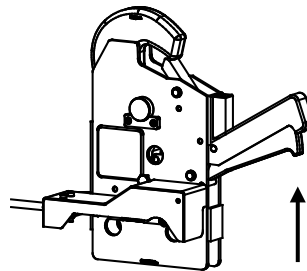
### RESET

- 1** Pull the safety lever on the remote unit and verify that the remote release handle falls to the closed position.

Release the safety lever and make sure that the remote release handle is locked in the closed position.



- 2** Set the release handle on the hook to the (high) closed position.

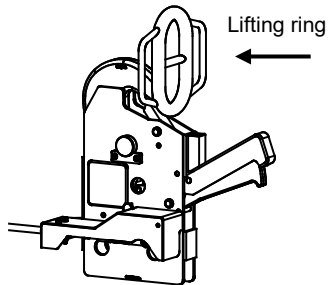


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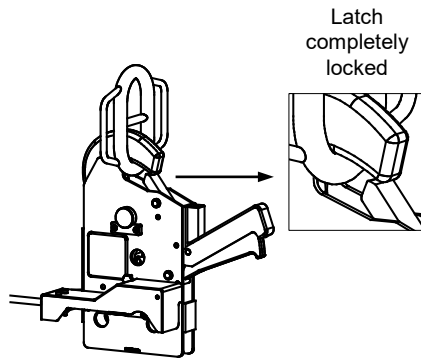
### RECOVERY

- 1** Make sure that the hook is reset.  
Place the lifting ring properly into the jaw of the hook.



- 2** Make sure that the latch is completely locked, refer to the illustration.

The hook is ready to recover the boat.

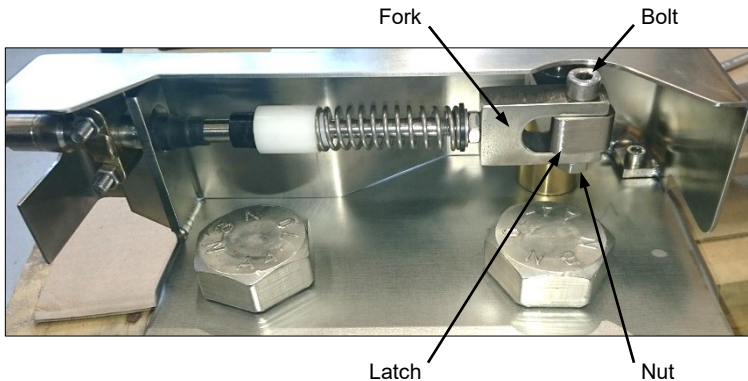


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### OPERATION WITHOUT THE REMOTE UNIT

The hook can be operated directly on the hook with the release handle in case the push/pull cable system or the remote release unit is damaged or not available.

- 1 Remove the bolt and the nut to disconnect the fork and the latch.



- 2 Follow the instructions as described in the LAUNCH, RESET and RECOVERY sections on the previous pages to operate the hook.

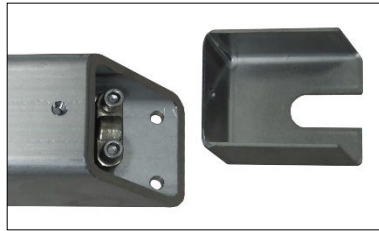
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- 1** Install the remote cable in the boat before attaching it to the remote unit and the hook.

Start the cable mounting process at the remote unit.



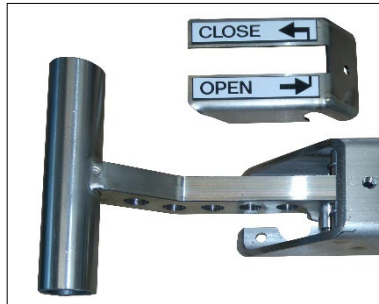
- 2** Remove the cover from the remote unit on the cable entry side.



- 3** Remove the cable clamp.



- 4** Remove the cover from the remote unit on release handle side.

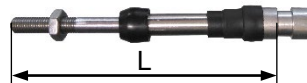
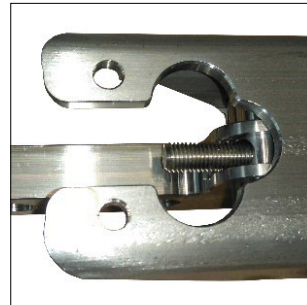




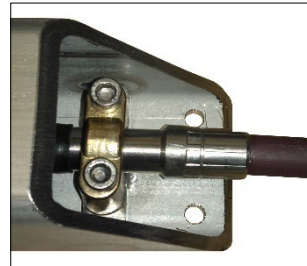
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- 5** Remove the nut from the end of the cable on the remote side, and thread the cable through hole in the bolt of the remote handle mechanism.

Pull the cable ends out from the sleeve as long as possible and measure the length (L), refer to the illustration. The length (L) is longer on the end of remote side of the cable.



- 6** Lock the cable with the cable clamp. Tighten the screws carefully to prevent damage on the cable.



- 7** Set a washer and the nut right on the cable end. Do not tighten yet.



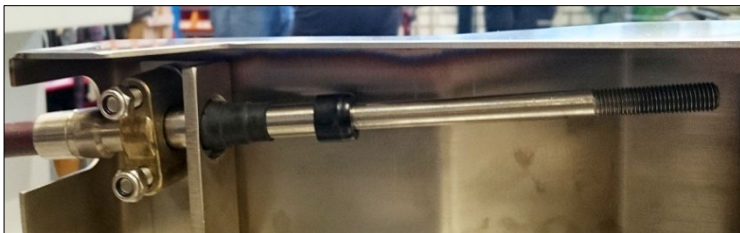
- 8** Spray a small amount of lubricant oil into the remote unit.

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- 9 Make sure that the hook is closed.
- 10 Attach the cover onto the hook, refer to the illustrations.

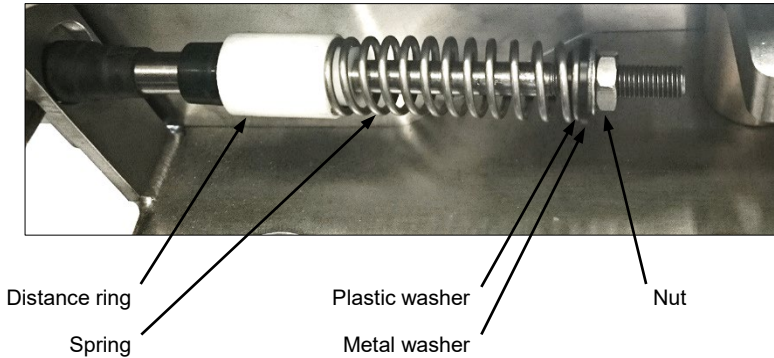


- 11 Attach the cable to the cover with the bolts, nuts and the clamp, refer to the illustration. Do not tighten yet!

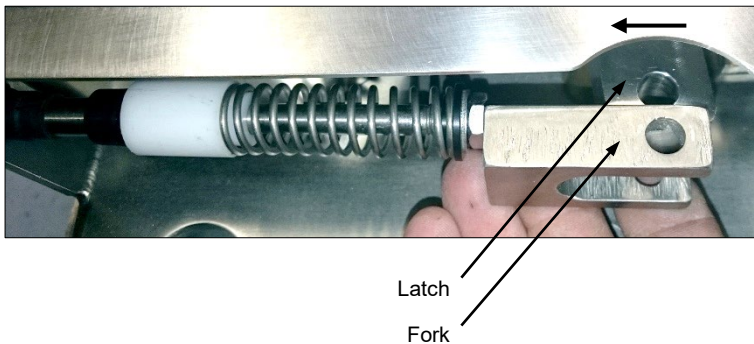


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- 12** Put the plastic distance ring, the spring, the plastic washer, the metal washer and the nut on the cable, refer to the illustration.

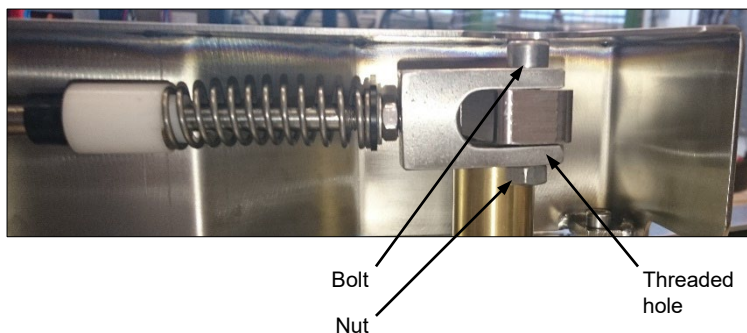


- 13** Attach the fork to the cable. Move the latch against the cable and align the holes on the latch and the fork by adjusting the position of the nut and the fork on the cable.



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- 14** Connect the fork and the latch with the bolt and the nut (tighten by hand), refer to the illustration. Make sure to have the threaded hole on the downside of the fork.



- 15** Lock the position of the fork with the nut on the cable.

- 16** Make sure to have the head of the mounting screws on the cable side when the hook is mounted onto the mounting plates on the boat (see step 24) to ensure that the movement of the latch and the fork is not blocked.



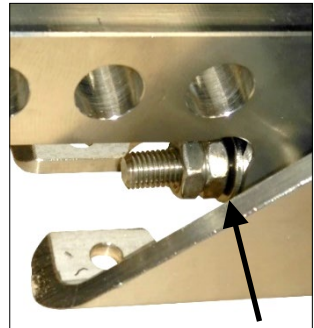


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**17** Set the remote release handle into the closed position.

Lock the nut on the cable end at the remote unit with an additional nut.

Make sure that there is a little gap between the washer and the release handle and there is no tension in the cable, refer to the illustration.



**18** Make sure that there is small gap between the release handle and the upper part of the latch, refer to the illustration.  
Adjust the position of the fork and the nut on the cable if necessary.

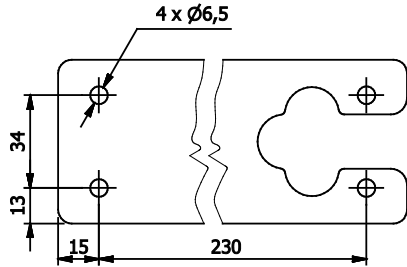




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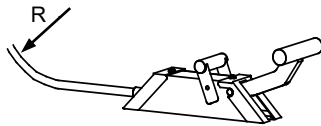
**19** Consider the ergonomical details and mount the remote unit to the dashboard with 4 pcs. M6 / Ø6 bolts depending of material of the dashboard.

For hole positions refer to the illustration.



**20** Install the covers back onto the remote unit.

**21** Make sure that the bending radius (R) of the cable is greater than 200 mm / 8 inch.



**22** Make sure that the rubber gaskets are still properly placed on both ends of the cable.

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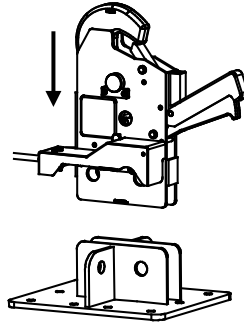
**23** Place the hook between the plates of the lifting arrangement of the boat.

We recommend:

- to use two outside mounting plates if possible.
- to apply shims to reduce the gap between the mounting plates and the hook.

Make sure that the mounting plates do not block the remote mechanism.

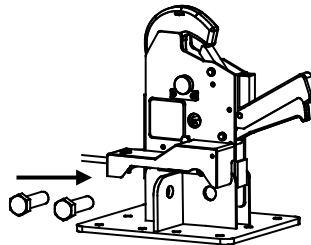
Check that the hook is in the preferred direction.



**24** Insert the mounting bolts through the holes on the lifting arrangement and the hook.

**WARNING:**

Use only recommended bolts, see the table on the next page.



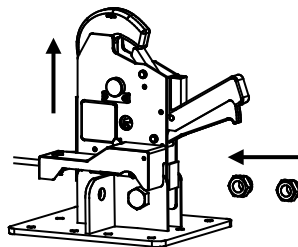
**25** Mount the locknuts.

We recommend to hold the hook in lifted position when tightening the locknuts.

**WARNING:**

Use only recommended locknuts and torques, see the table on the next page.

Always use new locknuts.



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## CABLE OVERVIEW

Hook type	Cable type
HMKRWH 3,5	HH090034 CABLE 64(3)33
HMKRWH 5	HH090034 CABLE 64(3)33
HMKRWH 8	HH090034 CABLE 64(3)33

## RECOMMENDED BOLTS AND LOCKNUTS

Hook type	Bolts <sup>(1)</sup> and locknuts <sup>(1) (2)</sup> dimensions		Max. torque (Nm)
	to frame <sup>(3)</sup>	to swivel joint	
HMKRWH 3,5	M24	M24 x 80	70
HMKRWH 5	M30	M30 x 90	70
HMKRWH 8	M30	M30 x 90	70

(1) Bolts: minimum A4 70 quality, locknuts: minimum A4 quality

(2) Locknuts according to DIN 985 – Nylon insert.

(3) The bolt should be unthreaded in the lifting cross-section.  
Use washers with the locknuts if necessary.

## RECOMMENDED LIFTING RINGS

We strongly recommend to use standard Henriksen Lifting Rings, because the ring dimensions are designed to **geometrically fit** together with the Henriksen Hooks.



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### FUNCTIONAL TEST

Do a functional test of the following after mounting the hook and the remote release unit on the boat:

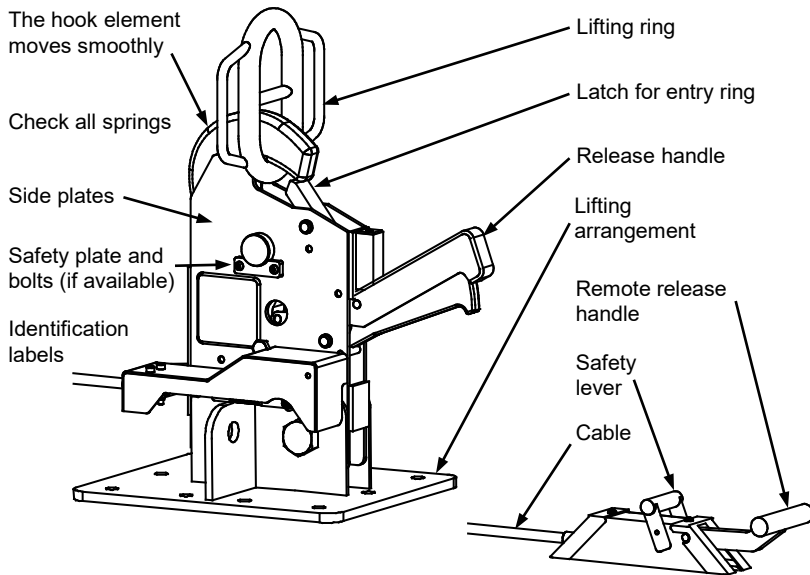
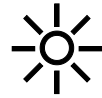
- The remote release handle can be set to the open (activated) and closed positions. The hook opens immediately when the remote release handle is in open position and the hook is off-loaded.
- The release handle on the hook can be set to low (activated) and high (closed) positions. The hook opens immediately when the release handle is in low position and the hook is off-loaded.
- The hook element can open and close fully.
- The ring shall be inserted simply and safely.
- Cable friction does not prevent the proper operation.

We recommend to prevent the hook against any ice to build up.



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- 1 For safety reasons carry out the control in good lighting conditions.
- 2 Remove all impurities (salt, grease, dust, etc.) with fresh water. Remove ice if necessary.
- 3 Check that the following parts are free from deformations and defects:



MONTHLY CONTROL

Contact the manufacturer in case of any deviation!

## HMKRWH

- 4** Do a functional test of the following:
- The remote release handle can be set to the open (activated) and closed positions. The hook opens immediately when the remote release handle is in open position and the hook is off-loaded.
  - The release handle on the hook can be set to low (activated) and high (closed) positions. The hook opens immediately when the release handle is in low position and the hook is off-loaded.
  - The hook element can open and close fully.
  - The ring shall be inserted simply and safely.
  - Cable friction does not prevent the proper operation.

**5 DO NOT PAINT ANY PART OF THE HOOK!**

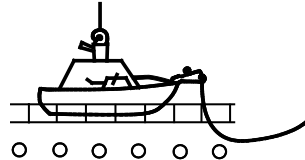


Contact the manufacturer in case of any deviation!

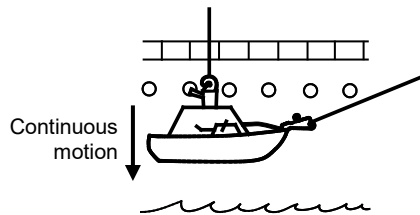
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### SAFE LAUNCH

**1** The hook operator connects the lifting ring and the painter line before launch, and then gives a signal to the crane operator that the lowering process can start.

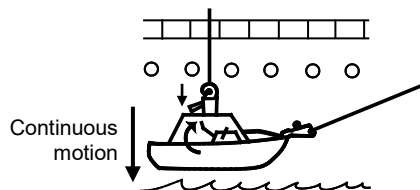


**2** The crane operator starts the lowering process with a continuous motion.



**3** The operators make sure that there are no obstacles under the boat.

The hook operator then activates the lifting hook with one of the release handles when the boat is close to the water surface.



**4** The hook operator stands back and takes a safe stand-by position.

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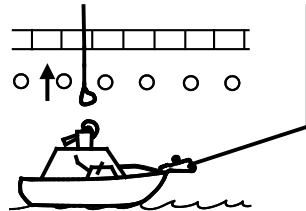


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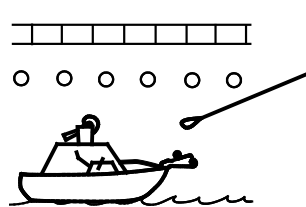
### SAFE LAUNCH

- 5** When the boat gets waterborne and the lifting hook is off-loaded, the hook will open automatically and release the lifting ring.

The crane operator lifts the lifting ring to avoid collision with the boat or the crew.



- 6** The coxswain or the hook operator releases the painter line when the boat and the crew is ready.



- 7** The coxswain maneuvers the boat ahead and away from the vessel.

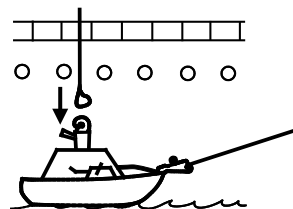
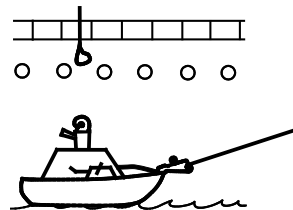
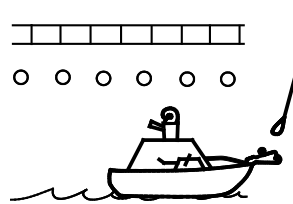
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### SAFE RECOVERY

- 1** The hook operator makes sure that both the lifting hook and the painter hook are reset.
- 2** The coxswain maneuvers the boat close to the vessel to let the hook operator safely get the painter line.
- 3** The hook operator connects the painter line.
- 4** The coxswain reduces the speed of the boat to get in the correct position below the lifting ring.
- 5** The crane operator lowers the lifting ring to let the hook operator safely get it.



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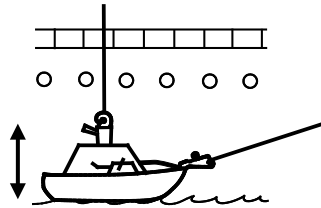


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### SAFE RECOVERY

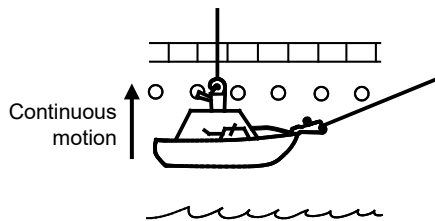
**6** The hook operator connects the lifting ring, and gives a signal to the crane operator.

The crane operator starts the automatic tensioning system (if available) to give tension in the wire.

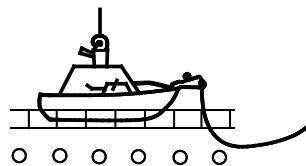


**7** The hook operator stands back and takes a safe stand-by position.

**8** The crane operator starts the lifting process with a smooth motion as the boat moves upwards on a wave.



**9** The crane operator completes the lifting process with a continuous motion and places the boat into the crib.



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