

HENRIKSEN HOOKS

HOOKS
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HHSM

MANUAL RELEASE OFF-LOAD HOOK
WITH INTEGRATED SWIVEL JOINT



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Rev.: --

M000324

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REDUCING OPERATIONAL RISK

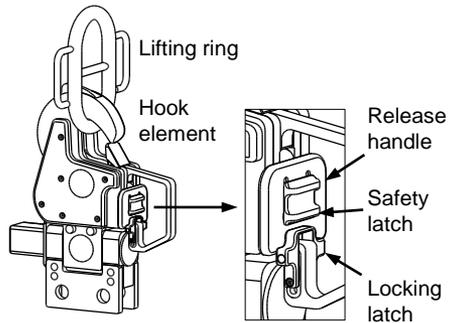
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LAUNCH

1 Check the following before launch:

- the hook element is in closed position
- the release handle is in inner (closed) position
- the safety latch is in low position
- the locking latch is in the high (closed) position
- the lifting ring is properly placed
- the hook is free of any impurities or ice

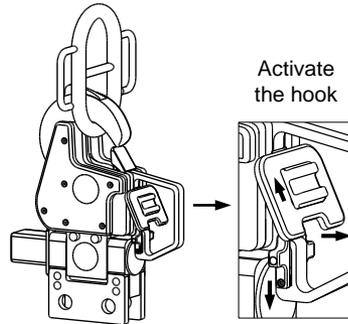


2 Start the lowering process with a continuous motion.

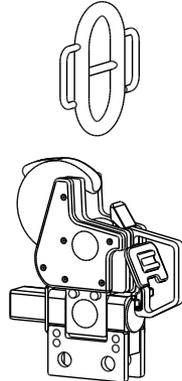
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LAUNCH

- 3** When the boat is close to the water surface do the following to activate the hook:
- push down the locking latch to the low (open) position
 - pull the release handle to the outer (activated) position and set the safety latch to the high position



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



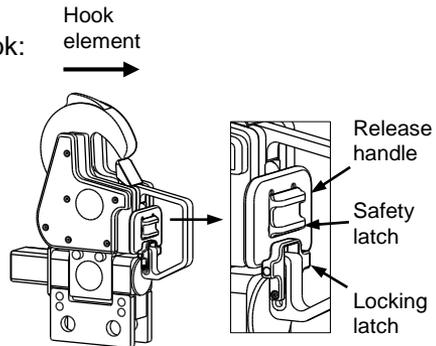


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RESET

1 Do the following to reset the hook:

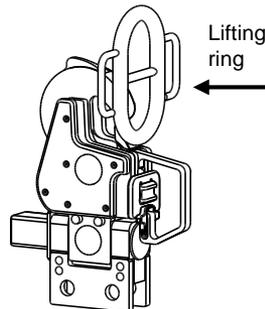
- pull the release handle and set the safety latch to the low position and then release the handle
- set the hook element manually to closed position, confirmed by a click sound
- set the locking latch to the high (closed position)



RECOVERY

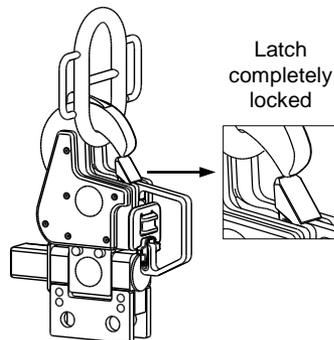
1 Make sure that the hook is reset.

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.



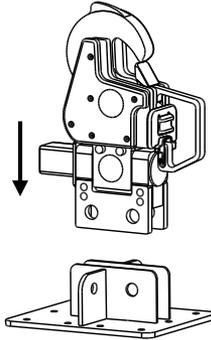
RESET & RECOVERY



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- 1** Place the hook between the plates of the lifting arrangement of the boat.

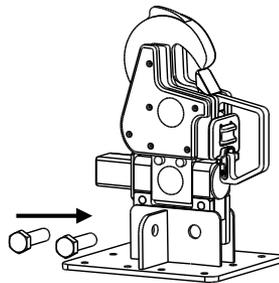
Check that the release handle points in the preferred direction.



- 2** Insert the mounting bolts through the holes on the lifting arrangement and the swivel joint.

WARNING:

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

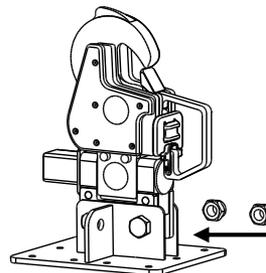


- 3** Mount the locknuts.

WARNING:

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

Always use new locknuts.





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FUNCTIONAL TEST

Do a functional test of the following after mounting the hook on the boat:

- The release handle can be set to activated and closed positions.
- There is no collision between the hook and any part of the boat within the operational range (up to 30 degrees both ways) of the swivel joint.
- The unloaded hook opens immediately when you set the release handle into activated position.
- The hook element can open fully.
- The ring shall be inserted simply and safely.

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

RECOMMENDED BOLTS AND LOCKNUTS

Hook type	Bolts and locknuts dimensions (minimum A4 70 quality)	Max. torque (Nm)
HHSM 12	M30	70

- The bolt should be unthreaded in the lifting cross-section.
- The length is specified by the boat builder.

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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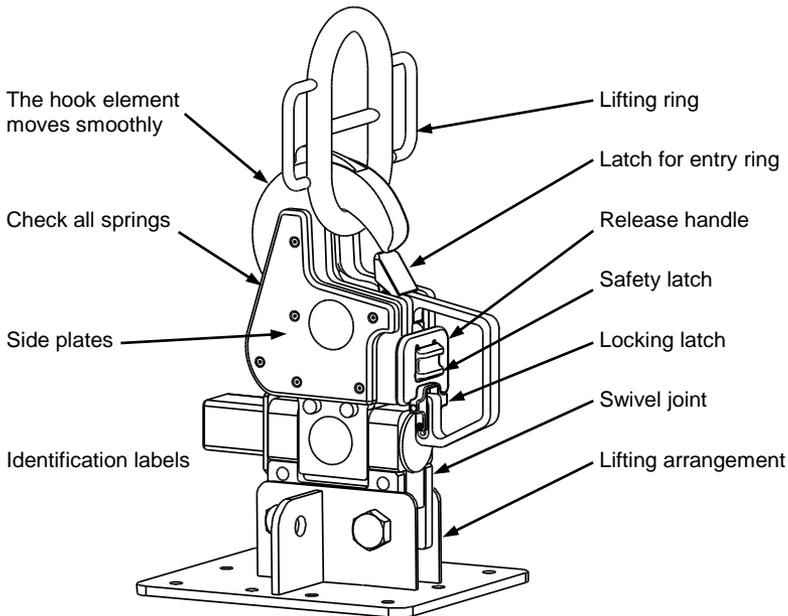
1 For safety reasons carry out the control in good lighting conditions.



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:



Contact the manufacturer in case of any deviation!

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- 4** Do a functional test of the following:
- There is no collision between the hook and any part of the boat within the operational range of the swivel joint.
 - The swivel joint holds the hook in the right position.
 - The release handle can be set to activated and closed positions.
 - The unloaded hook opens immediately when you set the release handle into activated position.
 - The hook element can open fully.
 - The ring shall be inserted simply and safely.

5 DO NOT PAINT ANY PART OF THE HOOK!



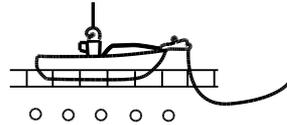
Contact the manufacturer in case of any deviation!



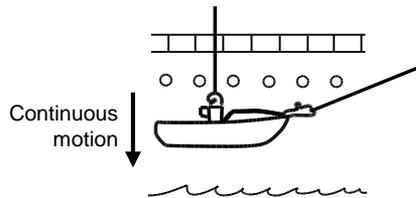
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SAFE LAUNCH

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.

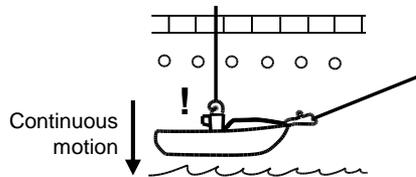


2 The crane operator starts the lowering process with a continuous motion.



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

The hook operator then activates the lifting hook 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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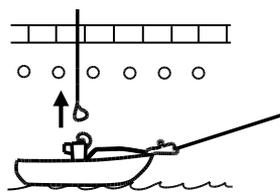


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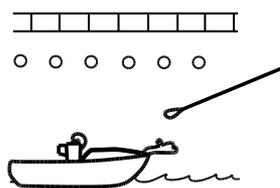
SAFE LAUNCH

- 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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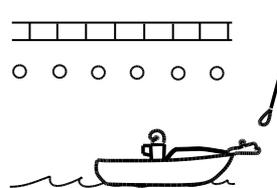


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SAFE RECOVERY

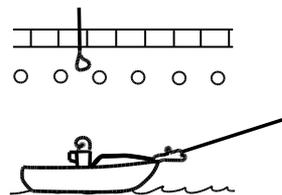
1 The hook operator makes sure that both the lifting hook and the painter hook are reset.

2 The coxswain maneuvers the boat close to the vessel to let the hook operator safely get the painter line.

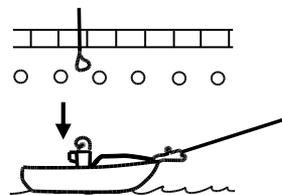


3 The hook operator connects the painter line.

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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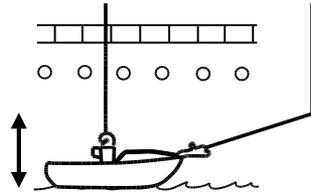


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SAFE RECOVERY

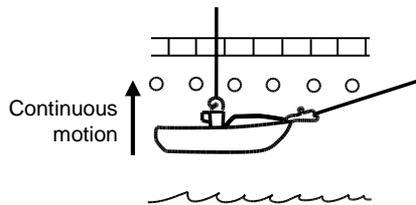
6 The hook operator connects the lifting ring, and gives a signal to the crane operator.

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

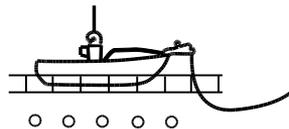


7 The hook operator stands back and takes a safe stand-by position.

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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