HOOKS
SAFETY QUICK RELEASE HOOKS

REDUCING OPERATIONAL RISK
MAXIMIZING OPERATIONAL PERFORMANCE
NEW!
The Henriksen Towing Hooks (HTH) is the latest addition to the Henriksen hook product range. The towing hooks are made with same high quality in design and materials as the rest of our range. The towing hooks are suitable for all kinds of maritime towing and hauling operations. Suitable for smaller work boats, rescue boats or other vessels for use in any towing operation up to 10 tonnes bollard pull (BP).
NEW!
The next generation lifting hooks has arrived. Re-designed with integrated swivel for up to 50% reduction in weight and volume. Manual (HHSM) and remote electric (HHSR) version. Read more inside.

HHSM
The HHS Manual hook is the lightest and most compact swiveling lifting hook in our range. It is completely manual and mechanical.

HHSR
For the HHSR Remote hook range we have also designed a new actuation system and control panel that provides a easier and safer user experience as well as much less installation and maintenance.
For more information please visit
www.hhenriksen.com

Or contact us at
hooks@hhenriksen.com

For all inquiries in the United States of America and Canada
please contact our US and Canadian distributor:

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About Henriksen

H. Henriksen AS is a technology company with a long and proud history within the maritime and offshore sector. The company has a strong position within safe MOB boat lifting operations, Launch & Recovery systems for offshore vessels, Oil Spill Recovery systems and Entering and Boarding Systems for both maritime and urban environments.

Henriksen was founded in 1856 based on the maritime industry, and is located in South-East Norway.

Henriksen has a brand vision that is rooted in over 150 years of experience. Our vision has been shaped by our founding fathers and many generations of forefathers. Their first hand experience and challenges has over time proven the true overreaching vision to for Henriksen to always look forward with the intent of creating safer operational conditions world wide. The Henriksen slogan is “Reducing Operational Risk”.

Henriksen Hooks

“Henriksen HOOKS” is a well established trademark amongst professionals in the maritime and offshore segment. The first off-load hook was made by Henriksen as early as 1982. Henriksen Hooks are designed to increase safety and efficiency when MOB boats are launched and recovered on ships and offshore installations. The operational safety, simplicity and working reliability of the Henriksen Hooks is very important for our customers and users. We also provide an established and operational exchange and re-certification program for our users. The brand vision is passed on down to the Hooks segment with the slogan: “A safe lifting operation”.

![Image of a boat in the sea with Henriksen logo]
The Henriksen Hooks are particularly safe and effective in boat lifting operations. The hook itself is mounted on the boat and features a “click-in-place” connection, making launch and recovery much safer and easier than with a sling. The lifting ring that clicks in place in the hook weighs only 2 - 6 kg and is therefore easy to catch and handle. The lifting ring also features a double handed grip which makes it safe and easy to place into the hook.

The capacity of our hooks range from WLL 1,5T to WLL 15T. We do also offer larger hooks, but not from our standard inventory. We often provide our customers with comprehensive systems, based on the Henriksen Hooks. Many of our professional users also require extra surrounding equipment in order to implement the systems on their vessels. We have considerable experience with these kind of challenges.

Certification and Technical Approval
Lifting equipment for manned vessels such as FRCs, RIBs, military vessels and MOB boats is subject to strict regulations. All our single point lifting Hooks receive the wheel mark after receiving the proper technical approval. The wheel mark signifies that we approve every hook we manufacture according to procedures and standards that have been approved by Det Norske Veritas (DNV). Ahead of the approval given from DNV, we perform a 3rd party strength calculation. Additionally, DNV witnesses as we carry out the qualification test (destructive). When the test regime and calculations have been approved and accepted, are we issued a certificate from DNV that gives us the right to sell the products with a wheel mark. Every lifting hook we produce is tested to 2,5 times WLL and undergo a thorough qualification test regime prior to delivery.

H. Henriksen Training Maintenance & Service System (HTMSS)
The Henriksen Hooks are designed to withstand heavy duty work on ships and boats all over the world. To ensure safe operations, Design, Training and Maintenance are key elements that all has to work well together. The laws and regulations regarding lifting devices requires a conscious user and owner of the systems.

H. Henriksen Notice System
When H. Henriksen delivers a hook for the first time, a “service item” is established. The system tracks the service history and is also a “call-back” system. The system will give a warning 3 months before the hook expires. The “buyer” will get this notice. The 1st buyer can often be a boat builder and the lifetime support is often carried out by someone else. Each hook has a serial no, and if the recipient of the “call-back-notice” should be someone else, just contact H. Henriksen, the service item will be updated.

User Training
The users should have regular training with the system. This should be regulated in the training plans for the ship or boat. Training is important to prevent accidents.

Yearly Inspection
Yearly, the Hook and Hook system must be inspected by a trained inspector. H. Henriksen can provide trained personnel or a course can be held at our premises to educate service personnel. The course last for 4 hours and can be held for single persons or groups. The scope is to learn the system and to be able to do a qualified inspection of the Hook. There shall be a service record on board to document the yearly inspection (whom and when and any findings).

Disclaimer
Although great efforts have been made in order to produce accurate and correct information in this catalog, there is always a possibility that an error has occurred. Designs and dimensions of the products listed in this catalog were correct at the date of publication but are however subject to change without notice. Please ask for our confirmation in cases where accuracy is critical. Typographical and pictorial errors that are brought to our attention will be corrected in subsequent issues.
Exchange and Recertification
A hook (and if applicable, the swivel joint) shall have major service after 5 years. Each hook is delivered with a certificate stating the expiry date. Recertification is a program where the customer sends the hook to us for rehabilitation and re-testing. During service the complete system will be dismounted and the main bolt will be changed together with any parts that have significant wear & tear. Finally the system/hook is tested just as if it was new (including the 2.5 x WLL test). The hook/systems we send back will normally appear as brand new. A recertification is usually completed within a couple of weeks, and the serviced hook will be ready for 5 more years of heavy service.

**H. Henriksen Exchange Program**
Most customers use the Henriksen exchange program. That means they require a refurbished hook when the expiry date is closing in. H. Henriksen will then send (and invoice at full price) a refurbished hook that has approx. the same age as the hook that need service. The customer exchanges the hook when possible, and then return the expired hook to H. Henriksen. H. Henriksen will then credit 30 - 70% full price of a hook, depending on hook model.

**H. Henriksen Exchange program - Overlap with no down time**

<table>
<thead>
<tr>
<th>New Hook</th>
<th>Refurbished Hook (any same aged hook)</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="New Hook Image" /></td>
<td><img src="image2" alt="Refrbished Hook Image" /></td>
</tr>
<tr>
<td>Order 5 years prior to hook expiry date - the customer orders a refurbished hook and is invoiced full price for a hook.</td>
<td>Hook is scrapped after a 20 years service life</td>
</tr>
<tr>
<td>Exchange program is discontinued</td>
<td></td>
</tr>
<tr>
<td><img src="image3" alt="Return Image" /></td>
<td>Return</td>
</tr>
<tr>
<td>The customer returns the old hook and 30-70% of full price is credited. The old hook is then refurbished and placed in our exchange pool.</td>
<td></td>
</tr>
</tbody>
</table>

**H. Henriksen Recertification Program**
Other customers have the possibility to send the hook to H. Henriksen and wait until the same hook is returned. This is called the H. Henriksen recertification program. The same will happen during the service but H. Henriksen normally will need 2 - 3 days in the workshop plus transport, meaning the boat will be without it’s hook for a period. The cost of the service is 30 - 70% of full price of a hook, depending on hook model.

**H. Henriksen Recertification Program - No overlap causes down time**

<table>
<thead>
<tr>
<th>New Hook</th>
<th>Hook Recertification</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image4" alt="New Hook Image" /></td>
<td><img src="image5" alt="Hook Recertification Image" /></td>
</tr>
<tr>
<td>Full Price</td>
<td>30 - 70% of full price</td>
</tr>
<tr>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>Hook is scrapped after a 20 years service life</td>
<td>20 years</td>
</tr>
</tbody>
</table>
SAFE LAUNCHING PROCEDURE WITH SINGLE POINT HOOK AND PAINTER HOOK

By placing a Henriksen Painter Hook in the bow of a MOB boat and connecting it to a tow line, you are ensuring that the MOB boat is kept in the correct direction and position during both launch and recovery. The Integrated Henriksen System ensures that the safe procedure as shown below is followed, by eliminating the risk of releasing the painter hook before the main hook.

1. Before launch

2. Lowering

3. Activate hook release when boat is clear of all objects and closing in on the water

4. Hook opens automatically when the boat hits the water

5. Release painter when crew is ready

We recommend using H. Henriksen Painter Hooks
Single point lifting arrangement
Manual release off-load hooks

HMKST
Standard Manual Release Hooks
(3, 5 / 5 / 8 / 15)

HMKG
Manual Release Hooks with a safer and less damage-prone design
(3, 5 / 5 / 8 / 12 / 15)

NORHMK
NORSOK R-002 compliant Hook with integrated swivel joint
(5 / 10 / 15)

HRH
A small hook for the lighter lifts
(1.5)

HMKF
Manual Release Hooks with foot release
(3, 5 / 5 / 8 / 15)

HHSM
Manual release Hook with compact design
(3, 5 / 6 / 12 / 16)

Remote release off-load hooks

HMKR
Remote release hooks
(3, 5 / 5 / 8 / 12 / 15)

HMKRW
Remote release hooks with vertical cable entry for swivel joint
(5 / 8 / 15)

HMKRF
Remote release hook with front mounted horizontal cable entry
(15)

HMKRWH
Remote release hooks with standard handle
(3, 5 / 5 / 8)

HMKRHB
Remote release hook with horizontal rear mounted cable entry
(3, 5 / 5 / 8)

HMKRHI
Remote release hook with hook-integrated IHS
(12)

HHSR
Remote release hook with compact design
(3, 5 / 6 / 12 / 16)
Crane Lifting off-load hooks

- **HCH**
  - Off-load crane hooks
  - (1.5 / 3.5 / 6.5 / 10)

Painters on-load hooks

- **HPH**
  - Painter hooks
  - (2.5 / 5 / 10)

Twin Point off-load hook systems

- **HMKTW**
  - Manual Simultaneous Release Twin System
  - (3.5 / 5 / 8 / 15)

- **HMKTWV**
  - Remote Simultaneous Release Twin System with vertical cable entry
  - (3.5 / 5 / 8 / 15)

- **HMKTWE**
  - Electric Simultaneous Release Twin System
  - (5 / 8 / 12)

- **HMKTWP**
  - Pneumatic Simultaneous Remote Release Twin System
  - (12 / 15)
Products for the Seismic Industry

- Titanium Towing Clamp for Streamer Cables
- Cable Pickup For Streamer Cables
- Towing Hook and Titanium Painter Link for Streamer Cables

Increased Operational Awareness Systems

- LiftView
  Realtime visualization and logging of lifting operations

- Awarelight
  Hook Status Lantern
  Liftview add-on / Standalone

Safety System

Integrated Henriksen System (IHS)
Eliminate the risk of releasing the painter hook before the main hook.

IHS
Electric Integrated Henriksen System (3,5 / 5 / 8 / 12 / 15)

IHS
Accessories

HSL
Swivel Joints
(3,5 / 5 / 8 / 12 / 15)

HLR
Lifting Rings
(1,5 / 3,5 / 5 / 8 / 12 / 15)

Bolts and Nuts for all hooks

ELP
Electric control panel

Release Handle for
HMKR Remote Release
Hooks

Release Handle for
HPH Painter Hooks

Adapter
(3,5 / 5 / 8 / 12 / 15)

Protection handle for
HMKST Manual Release
Hooks

ELA
Electric actuator
INTEGRATED HENRIKSEN SYSTEM (IHS)

The Integrated Henriksen System is designed to enhance the safety during the launch of a rescue/work boat.

<table>
<thead>
<tr>
<th>HOOK</th>
<th>ALL</th>
</tr>
</thead>
<tbody>
<tr>
<td>RING</td>
<td>HLR</td>
</tr>
<tr>
<td>SWIVEL</td>
<td>N/A</td>
</tr>
<tr>
<td>JOINT</td>
<td></td>
</tr>
</tbody>
</table>

The Integrated Henriksen System (IHS) is a safety system that increases the safety of lifting operations where a painter hook is used in combination with a lifting hook, and especially when the mothership is moving. One of the most dangerous things that can happen when lifting in speed is releasing the painter hook before the lifting hook which will cause the daughtercraft to be towed by its lifting hook. Using an IHS System ensures that the lifting hook has opened before the painter hook can release the painter line.

The IHS is available both as electric or mechanical system. See the illustrations to the right. The electric system uses flexible electrical wires to connect the components and is controlled with a compact and intuitive control panel. Release of both painter hook and lifting hooks is done with the push of a button. The electric system is easier to use, and takes less room in the boat cockpit panel, but this is not the only advantage. The electric wires are much easier to route and install in the boat. The electrical wires will also not move around when used.

The mechanical version is connected via stainless steel pull/push cables and a painter hook release handle. The lifting hook itself can be opened with a handle on the hook, or be remote released via an optional hook release handle.

Without IHS:

a dangerous procedural error is possible:
Release of painter hook before lifting hook

With IHS:

This possibility is removed and lifting hook has to be opened before the painter hook.
The HOOKS on this page are all tested and delivered with European Community “MED” CERTIFICATES approved by Det Norske Veritas. They are also approved by Transport Canada (several other certificates are also available on request). Test certificates are based upon IMO / SOLAS.

For more information please visit: [www.hhenriksen.com](http://www.hhenriksen.com)

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Mail: hooks@hhenriksen.com
LIFTVIEW

The Henriksen Liftview system enables the user to view in real time information about a lift, including load, tilt and roll. The user output is viewed on a screen. The LiftView system contains information about the current hook in use, all performed lifts and so on.

LIFTVIEW

Henriksen Hooks’ new sensor system enables us to add sensing, visualization and logging capabilities to any hook in our range. This system will give the user some unique possibilities that will increase operational awareness, and thereby a safer lifting operation.

Key features
- Display accurate hook load in real time
- Log peak loads for every lifting operation
- Log total numbers of lifting operations
- View active and logged lifts as detailed plots with trendlines
- Measure roll and pitch
- Sense hook status (closed, active or open)
- Signal hook status with an external lantern

The sensor information can be used to alarm the user of overload. Optimize boat and crane design based on actual load data as well as creating maintenance routine based on operations.
**HENRIKSEN AWARELIGHT**

Originally developed as part of the liftview system, the awarelight is now also offered as a standalone feature.

The AwareLight lantern has a narrow field of view which gives good feedback to the crane/davit operator, while not disturbing the boat crew. The AwareLight is useful in both the launch and recovery phase.

In the **launch** phase, continuous light signalizes OK, the hook is closed. The crane/davit operator is told that everything is OK with the hook, and can begin to lift the boat.

When the boat closes in on the water line, the hook operator will activate the hook. The awarelight changes from a continuous light, to a 1 Hz flashing light, telling the crane/davit operator that the boat is ready to be lowered into the water.

As soon as the boat hits the water and the hook opens, the awarelight changes from 1 Hz flashing to 10 Hz (more rapid) flashing, and the crane/davit operator knows that the hook has opened.

In the **recovery** phase, the AwareLight will emit a constant light to signalize to the crane/davit operator that the boat is ready to attach the hook. When the hook is closed, the AwareLight will change the constant light to a 10 Hz flashing light. When the light changes, the crane/davit operator can start lifting the boat.

The AwareLight is placed somewhere near the hook on deck. Optionally you can add a second awarelight in the cockpit, giving the coxswain the same feedback.
SAFER HANDLE
The HMKG hook type is an evolved version of the original Henriksen HMKST standard hook and displays demonstrable advantages in numerous cases. The improvements are made based on our users input and our extensive experience. The HMKG hooks have a downwards facing handle that eliminates the possibility of the lifting ring catching on the handle (when the hook is mounted properly). The hooks also feature a large lifting ring skid zone which makes inserting the lifting ring much easier. The HMKG hook type is safer and easier to use, and at the same time less exposed to accidental damages and following down time.

OPERATION OF AN OFF-LOAD HOOK
Launch
1. When the boat is being lowered down and is close to the water level, remove the safety pin and release the hook handle.
2. When the boat is waterborne, the hook automatically releases the lifting ring.
Recovery
1. Prepare the hook for recovery by lifting the handle and inserting the safety pin.
2. Grab the lifting ring and connect it by pushing it into the hook.

LIFTING RINGS
We supply Henriksen original lifting rings for all HMK hooks. They are safe and easy to operate with handles that provide a good grip. We strongly recommend the use of our Henriksen lifting rings with our Henriksen hooks as these have geometry that is designed to fit together.

SWIVEL JOINTS
A Swivel joint is mounted between the hook and the lifting frame in order to reduce sideways forces. We recommend installing swivel joints on boats which are frequently used and/or boats that will be launched and recovered in rough sea.

INTEGRATED HENRIKSEN SYSTEM
All Henriksen HMKG hooks can be used in combination with an Integrated Henriksen System (IHS) and a painter hook. We recommend using a IHS system anywhere applicable as it removes the possibility of major operator errors and thereby significantly reduces operational risk.

- All materials used in the Henriksen Hooks are high quality and suitable for marine environment (saltwater proof). The HMKG hooks are made of stainless steel and duplex steel.
- All Hooks are delivered in a practical wooden box.
<table>
<thead>
<tr>
<th>PARTNR</th>
<th>HOOK</th>
<th>WLL</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>HH003050</td>
<td>HMKG 3,5</td>
<td>3,5T</td>
<td>100</td>
<td>180</td>
<td>25</td>
<td>49</td>
<td>40</td>
<td>352</td>
<td>40</td>
<td>30</td>
<td>11,7 kg</td>
</tr>
<tr>
<td>HH003879</td>
<td>HMKGD 3,5</td>
<td>3,5T</td>
<td>80</td>
<td>150</td>
<td>24,2</td>
<td>40</td>
<td>37</td>
<td>296</td>
<td>39</td>
<td>29</td>
<td>7,5 kg</td>
</tr>
<tr>
<td>HH006180</td>
<td>HMKG 5</td>
<td>5,0T</td>
<td>120</td>
<td>225</td>
<td>31</td>
<td>60</td>
<td>50</td>
<td>439</td>
<td>47</td>
<td>35</td>
<td>22,1 kg</td>
</tr>
<tr>
<td>HH006192</td>
<td>HMKG 8</td>
<td>8,0T</td>
<td>120</td>
<td>225</td>
<td>31</td>
<td>60</td>
<td>50</td>
<td>439</td>
<td>51</td>
<td>35</td>
<td>25,2 kg</td>
</tr>
<tr>
<td>HH000048</td>
<td>HMKG 12</td>
<td>12,0T</td>
<td>100</td>
<td>180</td>
<td>31</td>
<td>40</td>
<td>0</td>
<td>350</td>
<td>80</td>
<td>50</td>
<td>33,5 kg</td>
</tr>
<tr>
<td>HH000050</td>
<td>HMKG 15</td>
<td>15,0T</td>
<td>120</td>
<td>225</td>
<td>41</td>
<td>73</td>
<td>55</td>
<td>470</td>
<td>71</td>
<td>47</td>
<td>35,4 kg</td>
</tr>
</tbody>
</table>

Materials: High quality stainless steel

Warranty: 5 years (When the re-certification and annual inspection is followed)

Documentation: Certificates, Installation-, Operation-, and Maintenance Manual

Packaging: Wooden case

Optional Accessories:
- Certified bolts and nuts
- Henriksen Swivel Joint
- Henriksen Lifting Ring
- Integrated Henriksen System (IHS)
HMKST 3, 5 / 5 / 8 / 15
For fast rescue crafts and other types of boats with a single point lifting arrangement.

ORIGINAL
The HMKST hooks are the original Henriksen developed quick release, off-load lifting hooks. For decades this product has proven to be the most reliable, best and safest launch and recovery lifting hook on the maritime market, and still continues to live up to its reputation. Available as an accessory is the HMKST release handle protection bar. This gives the handle additional protection as well as a hand rail for the operator to hold on to during operations in rough conditions. See also our HMKG Hook range for the newest generation of hooks, with features and improvements based on user input and our extensive experience in the hooks field.

OPERATION OF A HENRIKSEN OFF-LOAD HOOK
Launch
1. When the boat is being lowered down and is close to the water level, remove the safety pin and release the hook handle.
2. When the boat is waterborne, the hook automatically releases the lifting ring.
Recovery
1. Prepare the hook for recovery by lifting the handle and inserting the safety pin.
2. Grab the lifting ring and connect it by pushing it into the hook.

LIFTING RINGS
We supply Henriksen original lifting rings for all HMK hooks. They are safe and easy to operate with handles that provide a good grip. We strongly recommend the use of our Henriksen lifting rings with our Henriksen hooks as these have geometry that is designed to fit together.

SWIVEL JOINTS
A Swivel joint is mounted between the hook and the lifting frame in order to reduce sideways forces. We recommend installing swivel joints on boats which are frequently used and/or boats that will be launched and recovered in rough sea.

INTEGRATED HENRIKSEN SYSTEM
All Henriksen HMKST hooks can be used in combination with an Integrated Henriksen System (IHS) and a painter hook. We recommend using a IHS system anywhere applicable as it removes the possibility of certain major operator errors and thereby significantly reduces operational risk.

- All materials used in the Henriksen Hooks are high quality and suitable for marine environment (saltwater proof).
- The HMKST Hooks are made of stainless steel and duplex steel.
- All Hooks are delivered in a practical wooden box.
### HMKST HOOKS

<table>
<thead>
<tr>
<th>PARTNR</th>
<th>HOOK</th>
<th>WLL.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>HH000026</td>
<td>HMKST 3,5</td>
<td>3,5T</td>
<td>100</td>
<td>180</td>
<td>25</td>
<td>49</td>
<td>40</td>
<td>40</td>
<td>352</td>
<td>40</td>
<td>30</td>
</tr>
<tr>
<td>HH000027</td>
<td>HMKST 5</td>
<td>5,0T</td>
<td>120</td>
<td>225</td>
<td>31</td>
<td>60</td>
<td>50</td>
<td>440</td>
<td>47</td>
<td>35</td>
<td>18,1 kg</td>
</tr>
<tr>
<td>HH000028</td>
<td>HMKST 8</td>
<td>8,0T</td>
<td>120</td>
<td>225</td>
<td>31</td>
<td>60</td>
<td>50</td>
<td>440</td>
<td>51</td>
<td>35</td>
<td>20,3 kg</td>
</tr>
<tr>
<td>HH000034</td>
<td>HMKST 15</td>
<td>15,0T</td>
<td>120</td>
<td>225</td>
<td>41</td>
<td>73</td>
<td>55</td>
<td>470</td>
<td>74</td>
<td>47</td>
<td>30,9 kg</td>
</tr>
</tbody>
</table>

- **Materials**: High quality stainless steel
- **Warranty**: 5 years (When the re-certification and annual inspection is followed)
- **Documentation**: Certificates, Installation-, Operation-, and Maintenance Manual
- **Packaging**: Wooden case
- **Optional Accessories**:
  - Certified bolts and nuts
  - Henriksen Swivel Joint
  - Henriksen Lifting Ring
  - Protection Handle
  - Integrated Henriksen System (IHS)

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The HOOKS on this page are all tested and delivered with European Community “MED” CERTIFICATES approved by Det Norske Veritas. They are also approved by Transport Canada (several other certificates are also available on request). Test certificates are based upon IMO / SOLAS.

For more information please visit: [www.hhenriksen.com](http://www.hhenriksen.com)
The protection handle will protect the release handle from getting damaged. The protection handle fits over the HSL swivel joint and allows it to move freely.

<table>
<thead>
<tr>
<th>PARTNR</th>
<th>FITS</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>WEIGHT</th>
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<td>HMKST 15</td>
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<td>677</td>
<td>627</td>
<td>479</td>
<td>569</td>
<td>2.8 kg</td>
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</table>
HHSM 3,5 / 6 / 12 / 16
Latest generation off-load hooks with integrated swivel joint with a more compact size and lower weight.

COMPACT
The HHSM Manual hooks is the latest generation Henriksen Hooks. They have been designed with integrated swivel joint which makes them lighter and more compact compared to using a conventional hook and swivel joint combination. The HHSM hooks are activated using the compact activation handle that sits within the combined hand grip and ring guide rail. When the boat is close to the water the hook operator activates the hook using the handle and enables the activation handle toggle. When the boat is waterborne and the load is removed the hook automatically opens.

Using a swivel joint allows the lifting arrangement to pivot and reduces the risk for a lot of potential unwanted loads. We always recommend using a swivel, especially for boats that are frequently used.

OPERATION OF A HENRIKSEN REMOTE RELEASE OFF-LOAD HOOK
Launch
1. When the boat is being lowered down, is clear off all obstacles and close to the water level, use the activation handle and toggle to activate the hook release mechanism. When the boat is waterborne, the hook automatically releases the lifting ring.

Recovery
1. Prepare the hook for recovery by closing the hook and making sure the handle lock is in bottom position.
2. Grab the lifting ring and connect it by pushing it into the hook.

LIFTING RINGS
We supply Henriksen original lifting rings for all HMK hooks. They are safe and easy to operate with handles that provide a good grip. We strongly recommend the use of our Henriksen lifting rings with our Henriksen hooks as these have geometry that is designed to fit together.

INTEGRATED HENRIKSEN SYSTEM
See the remote activated version (HHSR) for a similar hook that can be used together with a painter hook in a Integrated Henriksen System (IHS). We recommend using a IHS system anywhere applicable as it removes the possibility of certain major operator errors and thereby significantly reduces operational risk.

- All materials used in the Henriksen Hooks are high quality, corrosion resistant, and suitable for marine environment (saltwater proof).
- All Hooks are delivered in a practical wooden box.
### HHSM Hooks

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<tr>
<th>PARTNR</th>
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<th>WLL</th>
<th>A</th>
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</tbody>
</table>

- **Materials**: High quality stainless steel
- **Warranty**: 5 years (when the re-certification and annual inspection is followed)
- **Documentation**: Certificates, Installation-, Operation-, and Maintenance Manual
- **Packaging**: Wooden case
- **Optional Accessories**: 
  - Certified bolts and nuts
  - Henriksen Lifting Ring
  - Integrated Henriksen System (IHS)

The HOOKS on this page are all tested and delivered with European Community “MED” CERTIFICATES approved by Det Norske Veritas. They are also approved by Transport Canada (several other certificates are also available on request). Test certificates are based upon IMO / SOLAS.

For more information please visit: [www.hhenriksen.com](http://www.hhenriksen.com)
REMOTE RELEASE HOOKS - COMPACT

HHSR 3,5 / 6 / 12 / 16
Latest generation Henriksen remote release off-load hooks.
Electric remote actuation with the ELP control panel. IP67 protection.

COMPAKT
The HHSR Remote hooks is the newest generation Henriksen Hooks. They have been designed with integrated swivel joint, which makes them lighter and more compact. They have an electric solenoid actuator, and goes with the ELP control panel which makes lifting operations intuitive and easy. Remote release hooks have the same operational principles as manual release hooks: when the boat is close to the water the boat operator primes the hook for release using the control panel. When the boat is waterborne and the load is removed the hook automatically opens. The big safety advantage of remote release hooks is that no operator is needed near the hook in the launch sequence.

HENRIKSEN HOOK WITH SWIVEL AND REMOTE RELEASE
The HHSR Hooks are delivered with ELP Control panel and wires. An optional painter hook with actuator can also be added for a complete electric IHS system with fast and easy pushbutton action.

OPERATION OF A HENRIKSEN REMOTE RELEASE OFF-LOAD HOOK
Launch
1. When the boat is being lowered down, is clear off all obstacles and close to the water level, use the control panel to activate the hook release mechanism. When the boat is waterborne, the hook automatically releases the lifting ring.

Recovery
1. Prepare the hook for recovery by closing the hook and making sure the handle lock is in bottom position.
2. Grab the lifting ring and connect it by pushing it into the hook.

LIFTING RINGS
We supply Henriksen original lifting rings for all HMK hooks. They are safe and easy to operate with handles that provide a good grip. We strongly recommend the use of our Henriksen lifting rings with our Henriksen hooks as these have geometry that is designed to fit together.

INTEGRATED HENRIKSEN SYSTEM
All Henriksen HHSR hooks can be used in combination with an Integrated Henriksen System (IHS) and a painter hook. We recommend using a IHS system anywhere applicable as it removes the possibility of certain major operator errors and thereby significantly reduces operational risk.

- All materials used in the Henriksen Hooks are high quality and suitable for marine environment (saltwater proof).
- All Hooks are delivered in a practical wooden box.
**HHSR HOOKS**

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For more information please visit: [www.hhenriksen.com](http://www.hhenriksen.com)

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**PARTNR** | **HOOK** | **WLL** | **A** | **B** | **C** | **D** | **E** | **F** | **G** | **H** | **WEIGHT**
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
- | - | 3,5T | - | - | - | - | - | - | - | - | -
- | - | 6T | - | - | - | - | - | - | - | - | -
HH000129 | HHSR 12 | 12T | 100 | 176 | 30,5 | 35 | 75 | 482 | 110 | 45 | 41,5 kg
- | - | 16T | - | - | - | - | - | - | - | - | -

**Materials**
High quality stainless steel

**Warranty**
5 years (When the re-certification and annual inspection is followed)

**Documentation**
Certificates, Installation-, Operation-, and Maintenance Manual

**Packaging**
Wooden case

**Optional Accessories**
- Certified bolts and nuts
- Henriksen Lifting Ring
- Integrated Henriksen System (IHS)
ELP - ELECTRIC CONTROL PANEL

The control panel has been developed for use with the HHSR Remote release hooks and one panel handles up to two hooks and a painter hook in a twin IHS system. The panel receives signals from sensors integrated in the hook and displays the corresponding awarelight status on the panel.

The panel has a green backlight for use at night that is auto-dimmed by day, dimmable in 5 steps as well as completely off for low visibility operations. It also features a (mutable) buzzer that can provide the awarelight signals as sound signals, and thereby providing information even without having to take a look.

The panel is prepared for wireless applications and programmable, and is therefore also perfect for uses in USV and other concepts.

EASY ASSEMBLY AND INSTALLATION

The ELP and all its components are IP67 compatible (when connected) and will therefore be able to withstand complete submersion to 1 meter in 30 min no matter where it is mounted in the boat.

OPERATION

Launch
1. The HOLD button is a safety feature and has to be held down in order to use any of the red buttons on the panel. When the boat is being lowered down, is clear off all obstacles and close to the water level, press the HOOK(S) button to activate the hook and observe the awarelight lamp change signal to ACTIVATED. When the boat is waterborne, the hook automatically releases the lifting ring and it is now possible to release the painter hook.
2. Press the PAINTER-button to release the painter line

Recovery
1. Prepare the hook for recovery by returning the hook to closed position.
2. Grab the lifting ring and connect it by pushing it into the hook.
3. Push the L&R Button on the control panel, or on the hook.
HMKR 3,5 / 5 / 8 / 12 / 15
HMKRW 5 / 8 / 15
HMKRWH 3,5 / 5 / 8
HMKRHB 3,5 / 5 / 8
HMKRHI 12
HMKRHF 15

For fast rescue crafts and other types of boats with a single point lifting arrangement

MECHANICAL REMOTE RELEASE
The HMKR HOOKS are remotely operated hooks where the remote control handle can be placed close to the helmsman’s position. It works in the same way as the manually operated off-load hooks. Remote release hooks have the same operational principles as manual release hooks: when the boat is close to the water the boat operator primes the hook for release using the remote handle. When the boat is waterborne and the load is removed the hook automatically opens. The big safety advantage of the HMKR hooks is that no operator is needed near the hook in the launch sequence.

HENRIKSEN REMOTE RELEASE HOOKS
The Standard Remote Release Hooks are delivered with a push/pull cable directly connected to the remote handle. Alternatively, we can provide an electrical or pneumatic system where this is required.

OPERATION OF A HENRIKSEN REMOTE RELEASE OFFLOAD HOOK
Launch
1. When the boat is being lowered down, is clear off all obstacles and close to the water level, use the remote handle to activate the hook release mechanism. When the boat is waterborne, the hook automatically releases the lifting ring.

Recovery
1. Prepare the hook for recovery by lifting the handle and inserting the safety pin.
2. Grab the lifting ring and connect it by pushing it into the hook.

LIFTING RINGS
We supply Henriksen original lifting rings for all HMK hooks. They are safe and easy to operate with handles that provide a good grip. We strongly recommend the use of our Henriksen lifting rings with our Henriksen hooks as these have geometry that is designed to fit together.

SWIVEL JOINTS
A Swivel joint is mounted between the hook and the lifting frame in order to reduce sideways forces. We recommend installing swivel joints on boats which are frequently used and/or boats that will be launched and recovered in rough sea.

INTEGRATED HENRIKSEN SYSTEM
All Henriksen HMKR hooks can be used in combination with an Integrated Henriksen System (IHS) and a painter hook. We recommend using a IHS system anywhere applicable as it removes the possibility of certain major operator errors and thereby significantly reduces operational risk.

• All materials used in the Henriksen Hooks are high quality and suitable for marine environment (saltwater proof). The HMKR Hooks are made of stainless steel and duplex steel.
• All Hooks are delivered in a practical wooden box.
### HMKR HOOKS

![HMKR Hook Diagram](image-url)

<table>
<thead>
<tr>
<th>PARTNR</th>
<th>HOOK</th>
<th>WLL</th>
<th>A</th>
<th>B</th>
<th>C</th>
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<td>17.3 kg</td>
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<td>50</td>
<td>439</td>
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<td>73</td>
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<td>470</td>
<td>71</td>
<td>47</td>
<td>30.4 kg</td>
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#### Materials
- High quality stainless steel

#### Warranty
- 5 years (When the re-certification and annual inspection is followed)

#### Documentation
- Certificates, Installation-, Operation-, and Maintenance Manual

#### Packaging
- Wooden case

#### Optional Accessories
- Certified bolts and nuts
- Henriksen Swivel Joint
- Henriksen Lifting Ring
- Integrated Henriksen System (IHS)

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The HOOKS on this page are all tested and delivered with European Community “MED” CERTIFICATES approved by Det Norske Veritas. They are also approved by Transport Canada (several other certificates are also available on request). Test certificates are based upon IMO / SOLAS.

For more information please visit: [www.henriksen.com](http://www.henriksen.com)
### Table: Dimensions and Specifications

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<td>71</td>
<td>47</td>
<td>102</td>
<td>31.6 kg</td>
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**Materials**
- High quality stainless steel

**Warranty**
- 5 years (When the re-certification and annual inspection is followed)

**Documentation**
- Certificates, Installation-, Operation-, and Maintenance Manual

**Packaging**
- Wooden case

**Optional Accessories**
- Certified bolts and nuts
- Henriksen Swivel Joint
- Henriksen Lifting Ring
- Integrated Henriksen System (IHS)

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<table>
<thead>
<tr>
<th>PARTNR</th>
<th>HOOK</th>
<th>WLL</th>
<th>A</th>
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<td>352</td>
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<td>367</td>
<td>97</td>
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<td>63</td>
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<td>128</td>
<td>25,5 kg</td>
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**Materials**
High quality stainless steel

**Warranty**
5 years (When the re-certification and annual inspection is followed)

**Documentation**
Certificates, Installation-, Operation-, and Maintenance Manual

**Packaging**
Wooden case

**Optional Accessories**
- Certified bolts and nuts
- Henriksen Swivel Joint
- Henriksen Lifting Ring
- Integrated Henriksen System (IHS)

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For more information please visit: [www.hhenriksen.com](http://www.hhenriksen.com)
**PARTNR** | **HOOK** | **WLL** | **A** | **B** | **C** | **D** | **E** | **F** | **G** | **H** | **I** | **WEIGHT**  
---|---|---|---|---|---|---|---|---|---|---|---|---
HH000088 | HMKRHB 3,5 | 3,5T | 100 | 180 | 25 | 49 | 40 | 352 | 40 | 30 | 90 | 10,1 kg  
HH005139 | HMKRHB 5 | 5,0T | 120 | 225 | 31 | 60 | 50 | 440 | 47 | 35 | 113 | 16,8 kg  
HH007652 | HMKRHB 8 | 8,0T | 120 | 225 | 31 | 60 | 48 | 440 | 51 | 35 | 105 | 19,8 kg  

**Materials**
High quality stainless steel  

**Warranty**
5 years (When the re-certification and annual inspection is followed)  

**Documentation**
Certificates, Installation-, Operation-, and Maintenance Manual  

**Packaging**
Wooden case  

**Optional Accessories**
- Certified bolts and nuts  
- Henriksen Swivel Joint  
- Henriksen Lifting Ring  
- Integrated Henriksen System (IHS)

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<td>-</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>29,5 kg</td>
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Materials  
High quality stainless steel

Warranty  
5 years (When the re-certification and annual inspection is followed)

Documentation  
Certificates, Installation-, Operation-, and Maintenance Manual

Packaging  
Wooden case

Optional Accessories  
- Certified bolts and nuts
- Henriksen Swivel Joint
- Henriksen Lifting Ring
- Integrated Henriksen System (IHS)
HMKRF HOOK

<table>
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<th>PARTNR</th>
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<th>C</th>
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<tbody>
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<td>-</td>
<td>-</td>
<td>21.5 kg</td>
</tr>
</tbody>
</table>

Materials
High quality stainless steel

Warranty
5 years (When the re-certification and annual inspection is followed)

Documentation
Certificates, Installation-, Operation-, and Maintenance Manual

Packaging
Wooden case

Optional Accessories
- Certified bolts and nuts
- Henriksen Swivel Joint
- Henriksen Lifting Ring
- Integrated Henriksen System (IHS)

The HOOKS on this page are all tested and delivered with European Community “MED” CERTIFICATES approved by Det Norske Veritas. They are also approved by Transport Canada (several other certificates are also available on request). Test certificates are based upon IMO / SOLAS.

H. Henriksen AS
Tønsbergveien 15
3112 Tønsberg
Phone: 333 78 400
Mail: hooks@hhenriksen.com

For more information please visit: www.hhenriksen.com
NORSOK COMPLIANT
The NORHMK Hooks are specially designed with an integrated swivel joints and is approved by DNV to be compliant with the NORSOK R-002 Lifting Equipment regulations. The NORHMK Hooks are based on our HMKG range and has the same safe handle and large lifting ring skid zone design - resulting in an easier and safer lifting operation.

NORSOK STANDARD / SOLAS STANDARD
This NORSOK standard is developed with broad petroleum industry participation by interested parties in the Norwegian petroleum industry and is owned by the Norwegian petroleum industry represented by The Norwegian Oil Industry Association (OLF) and The Federation of Norwegian Industry. The NORSOK standard is valid for technical requirements for lifting appliances and lifting accessories on all fixed and floating installations, mobile offshore units, barges and vessels, as well as on land based plants where petroleum activities are performed. The NORSOK standard is a requirement mainly within Norway and for Norwegian based vessels and equipment, but may also be used elsewhere. Our NORSOK compliant hooks are also SOLAS compliant with a safety factor of 6 and a rating of 8T, 15T and 22.5T respectively.

NORSOK LIFTING EQUIPMENT REQUIREMENTS
The dynamic forces caused by a MOB boat floating in the sea relative to a stationary platform makes it necessary with a safety factor as high as 9. Also the Hooks have to withstand full WLL in angles -7° to +7° in both side-side and front-back directions.

LIFTING RINGS
We supply Henriksen original lifting rings for all HMK hooks. They are safe and easy to operate with handles that provide a good grip. We strongly recommend the use of our Henriksen lifting rings with our Henriksen hooks as these have geometry that is designed to fit together.

OPERATION OF AN OFFLOAD HOOK
Launch
1. When the boat is being lowered down and is close to water level, remove the safety pin and release the hook handle.
2. When the boat is waterborne, the hook automatically releases the lifting ring.

Recovery
1. Prepare the hook for recovery by lifting the handle and inserting the safety pin.
2. Grab the lifting ring and connect it by pushing it into the hook.

INTEGRATED HENRIKSEN SYSTEM
All Henriksen HMK hooks can be used in combination with an Integrated Henriksen System (IHS) and a painter hook. We recommend using a IHS system anywhere applicable as it removes the possibility of certain major operator errors and thereby significantly reduces operational risk.

- All materials used in the Henriksen Hooks are high quality and suitable for marine environment (saltwater proof). The HMK Hooks are made of stainless steel and duplex steel.
- All Hooks are delivered in a practical wooden box.
<table>
<thead>
<tr>
<th>PARTNR</th>
<th>HOOK</th>
<th>WLL</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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<th>G</th>
<th>H</th>
<th>WEIGHT</th>
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<tbody>
<tr>
<td>HH005972</td>
<td>NORHMKG 5</td>
<td>5T</td>
<td>120</td>
<td>246</td>
<td>25</td>
<td>49</td>
<td>154</td>
<td>574</td>
<td>51</td>
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<tr>
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<td>340</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>180</td>
<td>528</td>
<td>75</td>
<td>51</td>
<td>62,7 kg</td>
</tr>
<tr>
<td>HH007542</td>
<td>NORHMKG 15</td>
<td>15T</td>
<td>340</td>
<td>-</td>
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<td>180</td>
<td>535</td>
<td>86</td>
<td>56</td>
<td>63,4 kg</td>
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<tr>
<td>HH007543</td>
<td>NORHMKR 15</td>
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<td>-</td>
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<td>180</td>
<td>535</td>
<td>86</td>
<td>56</td>
<td>60,7 kg</td>
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<table>
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<tr>
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<tr>
<td>Warranty</td>
<td>5 years (When the re-certification and annual inspection is followed)</td>
</tr>
<tr>
<td>Documentation</td>
<td>Certificates, Installation-, Operation-, and Maintenance Manual</td>
</tr>
<tr>
<td>Packaging</td>
<td>Wooden case</td>
</tr>
</tbody>
</table>
| Optional Accessories | • Certified bolts and nuts  
                        | • Henriksen Lifting Ring   
                        | • Integrated Henriksen System (IHS) |
TWIN HOOK SYSTEMS

Henriksen Twin hook system has proven to be the best system for launch and recovery of large workboats for navies and the offshore industry. The system is based on the same principles as our traditional Henriksen single point lift.

TWIN HOOK

We deliver twin systems for different types of crafts in several versions. The system can be operated manually, pneumatic or with an electrical actuator. We can also integrate the painter hook in to the system. This will reduce the risk of operational danger when launch and recover the boat.

The hooks are off-load hooks (inherently safe system) and a twin system is the safest way to launch a tender, interceptor or workboat which does not require approval as a lifeboat/FRC.

LIFTING RINGS

We supply Henriksen original lifting rings for all HMK hooks. They are safe and easy to operate with handles that provide a good grip. We strongly recommend the use of our Henriksen lifting rings with our Henriksen hooks as these have geometry that is designed to fit together.

OPERATION OF AN OFF-LOAD HOOK

Launch
1. When the boat is being lowered down and is close to water level, remove the safety pin and release the hook handle.
2. When the boat is waterborne, the hook automatically releases the lifting ring.

Recovery
1. Prepare the hook for recovery by lifting the handle and inserting the safety pin.
2. Grab the lifting ring and connect it by pushing it into the hook.

INTEGRATED HENRIKSEN SYSTEM

All Henriksen HMK hooks can be used in combination with an Integrated Henriksen System (IHS) and a painter hook. We recommend using a IHS system anywhere applicable as it removes the possibility of certain major operator errors and thereby significantly reduces operational risk.

- All materials used in the Henriksen Hooks are high quality and suitable for marine environment (saltwater proof). The HMK Hooks are made of stainless steel and duplex steel.
- All Hooks are delivered in a practical wooden box.
SYNCHRONIZED
When lifting a vessel with a twin hook setup, it is important that the hooks are synchronized so that both hooks open and close at the same time. All our twin hook systems are designed this way.

ONE HOOK OFF-LOADS : BOTH HOOK STAY CLOSED
All of our twin hook systems are designed with a connection between the two hooks that ensures that both hooks will stay closed if only one of the two are off-loaded.

BOTH HOOKS OFF-LOADS : BOTH HOOKS OPEN
All of our twin hook systems are designed with a connection between the two hooks that ensures that both hooks will open at the same time.

TWIN SYSTEM WITH IHS
All twin systems can be delivered with a painter in a IHS configuration for a even safer operation.
**HMKTW** / **HHSRT TWIN HOOK SYSTEMS**

**HMKTW**
Manual Simultaneous Release Twin System
(3,5 / 5 / 8 / 15)

**HHSRT**
Electric Simultaneous Release Twin System
(X / Y / Z)

**HMKTWV**
Remote Simultaneous Release Twin System with vertical cable entry
(3,5 / 5 / 8 / 15)

**HMKTWP**
Pneumatic Simultaneous Remote Release Twin System
(12 / 15)

<table>
<thead>
<tr>
<th>Materials</th>
<th>High quality stainless steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warranty</td>
<td>5 years (When the re-certification and annual inspection is followed)</td>
</tr>
<tr>
<td>Documentation</td>
<td>Certificates, Installation-, Operation-, and Maintenance Manual</td>
</tr>
<tr>
<td>Packaging</td>
<td>Wooden case</td>
</tr>
<tr>
<td>Optional Accessories</td>
<td>- Certified bolts and nuts</td>
</tr>
<tr>
<td></td>
<td>- Henriksen Swivel Joint</td>
</tr>
<tr>
<td></td>
<td>- Henriksen Lifting Ring</td>
</tr>
<tr>
<td></td>
<td>- Integrated Henriksen System (IHS)</td>
</tr>
</tbody>
</table>

The HOOKS on this page are all tested and delivered with product certificates. For more information please visit: [www.hhenriksen.com](http://www.hhenriksen.com)

H. Henriksen AS
Træleborgvejen 15
3112 Tønsberg
Phone: 333 78 400
Mail: hooks@hhenriksen.com
CRANE HOOKS

HCH 1,5
HCHT 3,5 / 6,5 / 10

Off-load Lifting hook for fast rescue crafts and other types of boats with lifting slings.

CRANE HOOKS
The HCH hooks are off-load crane hooks designed for lifting Fast Rescue Crafts, Man-Over-Board boats, Rigid Inflatable Boats (RIB) and tenders with a total weight of up to 10 000 kg. The HCH hooks are designed for use on small boats for military, offshore and the leisure market.

LIGHT WEIGHT
The Henriksen Crane Hooks differs from all our other hooks by being attached to the crane/davit instead of the boat. The advantage of attaching the hook to the boat, is that the weight of the crane line is kept at a minimum. A light line is safer and easier to handle, especially in rough weather. A crane hook adds more weight to the crane/davit line then a lifting ring and it is therefore critical to keep the weight of the crane hook at a minimum. All our crane hooks have therefore been designed to be as light as possible, and every HCH Hook (except the smallest HCH 1,5) are all made exclusively out of grade 5 Titanium.

OPERATION OF A OFF-LOAD CRANE HOOK
Launch
1. When the boat is close to water level, pull the release cord.
2. When the boat is waterborne, the hook will release automatically.

Recovery
1. Grab the hook.
2. Prepare for recovery by switching the safety knob into “closed position”.
3. Close the hook.
4. Connect the lifting sling ring by pushing it into the hook.

The HCH Hooks are available with several different connectors, depending on hook model. Please contact us for details about the different hooks and their connector options.

Thimble
Shackle
## HCH / HCHT Hooks

<table>
<thead>
<tr>
<th>PARTNR</th>
<th>HOOK</th>
<th>WLL</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>HH000032</td>
<td>HCH 1,5</td>
<td>1,5T</td>
<td>168</td>
<td>235</td>
<td>53</td>
<td>168</td>
<td>30</td>
<td>20</td>
<td>2.59 kg</td>
</tr>
<tr>
<td>HH006911</td>
<td>HCHT 3,5</td>
<td>3,5T</td>
<td>177</td>
<td>303</td>
<td>50</td>
<td>209</td>
<td>31</td>
<td>31</td>
<td>2.70 kg</td>
</tr>
<tr>
<td>HH000094</td>
<td>HCHT 6,5</td>
<td>6,5T</td>
<td>198</td>
<td>353</td>
<td>62</td>
<td>253</td>
<td>44</td>
<td>30</td>
<td>5.90 kg</td>
</tr>
<tr>
<td>HH003470</td>
<td>HCHT 10</td>
<td>10,0T</td>
<td>231</td>
<td>379</td>
<td>78</td>
<td>251</td>
<td>57</td>
<td>40</td>
<td>7.70 kg</td>
</tr>
</tbody>
</table>

Materials: High quality stainless steel / grade 5 titanium

Warranty: 5 years (When the re-certification and annual inspection is followed) for all HCHT Hooks

Documentation: Certificates, Installation-, Operation-, and Maintenance Manual

Packaging: Wooden case

Optional Accessories:
- Certified bolts
- Certified Thimbles and Shackles
- Henriksen Lifting Ring

The HOOKS on this page are all tested and delivered with European Community “MED” CERTIFICATES approved by Det Norske Veritas. They are also approved by Transport Canada (several other certificates are also available on request). Test certificates are based upon IMO / SOLAS.

For more information please visit: [www.hhenriksen.com](http://www.hhenriksen.com)
HPH 2,5 / 5 / 10
On-load release painter hook for fast rescue crafts, RIBs, MOBs working boats and other types of boats.

PAINTER HOOKS
A Henriksen Painter Hook is placed in the bow of e.g. a MOB boat and connected to a painter line in order to ensure that the MOB boat is kept in the correct direction and position during both launch and recovery. The Henriksen Painter Hooks are designed for boats with a total weight of up to 20,000 kg. Our guidelines dictate that the painter hook rating (WLL) should be at least half of the total weight of the boat.

OPERATION OF A PAINTER HOOK
1. Before launch: connect the painter line to the painter hook.
2. Connect the main lifting hook.
3. Lower / launch the boat.
4. Activate the hook opening mechanism when the boat is clear of all objects and close to the water.
5. The main lifting hook open opens/releases when the boat hits the water.
6. Release the painter hook when crew is ready.

Most of our painter hooks are operated with a remote control handle. This makes it easy for the operator in the helms mans position to have full control over the boat and thereby reducing operational risk.

All our painter hooks can be used together with the Integrated Henriksen System (IHS), which eliminates the possibility of opening the painter hook before the main hook.

All Henriksen Hooks are produced with high quality stainless steel and given a polished finish before delivery.

OPERATION OF A PAINTER HOOK
The ELA electric actuator is an accessory for the painter hook that is suitable for both standalone use, as well as together with a lifting hook and the ELP control panel.

This combination will also provide a safer lifting operation provided by safety features integrated in the control panel.
**SWIVEL JOINT**

The Henriksen Swivel Joints are mounted between the Henriksen Hook and the lifting frame on the boat. The Swivel joint is designed to allow the Hook to pivot 30° (to each side) and thereby reducing the bending moment on the hook and on the lifting frame. This results in a smoother and safer experience for the operators and reduced operational risk.

**HSL 3,5 / 5 / 8 / 12 / 15**

The Swivel Joint is mounted in between the boat and the hook and is highly recommended on boats that are frequently used, or that may experience a sideways force during operation.

<table>
<thead>
<tr>
<th>PARTNR</th>
<th>SWIVEL</th>
<th>WLL</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>WEIGHT</th>
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<tr>
<td>HH000106</td>
<td>HSL 3,5</td>
<td>3,5T</td>
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<td>196</td>
<td>25</td>
<td>246</td>
<td>33</td>
<td>337</td>
<td>53</td>
<td>10</td>
<td>163</td>
<td>40</td>
<td>15,2 kg</td>
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<td>HSL 5/8</td>
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<td>120</td>
<td>246</td>
<td>31</td>
<td>296</td>
<td>45</td>
<td>409</td>
<td>60</td>
<td>15</td>
<td>205</td>
<td>45</td>
<td>23,0 kg</td>
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<td>HH000074</td>
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<td>31</td>
<td>260</td>
<td>36</td>
<td>390</td>
<td>11</td>
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<td>35</td>
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<td>120</td>
<td>220</td>
<td>41</td>
<td>308</td>
<td>45</td>
<td>424</td>
<td>15</td>
<td>15</td>
<td>215</td>
<td>50</td>
<td>30,5 kg</td>
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</table>
HLR 1,5 / 3,5 / 5 / 8 / 12 / 15
Henriksen lifting rings are recommended accessories for all Henriksen hooks.

LIFTING RING
The Henriksen Lifting Rings are made with safety in mind. The dimensions are designed to geometrically fit together with the Henriksen Hooks. The gaps on the handles ensure a safer lifting operation.

<table>
<thead>
<tr>
<th>PARTNR</th>
<th>RING</th>
<th>WLL</th>
<th>A</th>
<th>B</th>
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<td>206</td>
<td>60</td>
<td>70</td>
<td>176</td>
<td>86</td>
<td>13</td>
<td>0,7 kg</td>
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<tr>
<td>HH177843</td>
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<td>178</td>
<td>70</td>
<td>-</td>
<td>152</td>
<td>102</td>
<td>16</td>
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<td>226</td>
<td>60</td>
<td>81</td>
<td>215</td>
<td>100</td>
<td>20</td>
<td>1,7 kg</td>
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<td>97</td>
<td>254</td>
<td>154</td>
<td>22</td>
<td>2,6 kg</td>
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<tr>
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<td>HPR 5*</td>
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<td>-</td>
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<td>-</td>
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<td>82</td>
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<tr>
<td>HH170659</td>
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<td>85</td>
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<td>276</td>
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<td>70</td>
<td>65 / 45</td>
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<td>110</td>
<td>97</td>
<td>266</td>
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<td>28</td>
<td>4,4 kg</td>
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<tr>
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<td>HLR 15</td>
<td>15,0T</td>
<td>336</td>
<td>140</td>
<td>125</td>
<td>334</td>
<td>204</td>
<td>32</td>
<td>6,5 kg</td>
</tr>
</tbody>
</table>

* For use with painter hook
HTH 2,5 / 5 / 10
For towing and hauling operations. Suitable for smaller work boats, rescue boats or other vessels for use in any towing operation up to 10 tonnes bollard pull (BP).

TOWING HOOK
The Henriksen Towing Hook (HTH) is a series of certified on-load quick release towing hooks with higher quality standard, made for safe and effective towing operations. The hooks are on-load released, and can be released locally or remotely.

SAFETY FEATURES
- Factory overload tested and certified
- Safety factor 6
- Easy to install
- Easy to use
- Use with rope, wire or steel rings
- On-load release up to full WLL in all working angles
- Little to none maintenance needed
- Re-certified by manufacturer every 5 years

ADAPTERS
The HTH hooks can be delivered with a horizontal or vertical adapter for fastening with screws or welded directly into the boat.

REMOTE RELEASE HANDLE
We supply release handles that can be mounted away from the hook for an even safer remote release.

HIGH QUALITY
The HTHs are made of only high grade stainless steel, which is the same material that is qualified to be used in Life Saving Appliances according to SOLAS. This makes the HTH hooks almost maintenance free. The HTH can be mounted in the marine environment (salt water proof) without the need of any coatings or protection.

- All Henriksen Hooks are delivered in a practical wooden box.

The HOOKS on this page are all tested and delivered with product certificates. For more information please visit: www.henriksen.com

REMOVING OPERATIONAL RISK
www.henriksen.com
TOWING HOOK FOR STREAMER CABLES
HPH 2.5 / 5 / 10
A DNV Certified quick release Towing Hook for towing seismic cables is a major safety improvement. If for any reason you want to quickly release the towing line, you pull the release handle and the lifting ring and tow line assembly is instantly released.

TITANIUM PAINTER LINK
Lightweight (950 g) painter link for use with the towing hook.

- 100% corrosion free
- Overload tested and certified
- WLL 5 000 kg (SF 4)

Similar links can also be supplied for our 2.5 and 10 ton painter hooks.

TOWING HOOK
The Henriksen Towing Hook is an on-load quick release hook that is suitable for towing objects up to a WLL of 10 000 kg with a safety factor of 4. This means that our biggest Towing Hook has a MBL of 40 tons.
TOWING CLAMP FOR STREAMER CABLES
When working on streamer cables on site you need to clamp on to the couplings between the cable segments, tow the cable into the work boat and at the same time be able to work with the coupling. This is enabled by our advanced towing clamp which is rated to a WLL of 4,2 tons with a 300 mm work area between the towing lines. The clamp is made out of light weight corrosion free titanium. The clamp has angled lifting point which ensures the correct working position when the clamp is attached to the streamer. Every clamp is overload tested and certified by H. Henriksen AS.

TITANIUM TOWING CLAMP FOR STREAMER CABLES (SSAS AND TES)
The clamp is made completely of titanium and therefore weighs only 4 kg.

Quick Connect
The clamp features an easy to use, big knurled knob that eliminates the need for tools. It can also be operated with gloves. The clamp can be placed and secured within 3 seconds.
CABLE PICKUP FOR STREAMER CABLES

The Henriksen Cable Pickup is mounted on a lift on the outside of the workboat hull. The Workboat maneuvers next to the submerged streamer cable and lowers the lift. It is then used to lift and maneuver cables in service and maintenance operations. A hinged side support keeps the cable in place during operations. When a operation is completed, the side support is easily rotated out of the way so the cable can be removed.

CABLE PICKUP

The Cable pickup body is a high tech stainless steel, closed cell foam and carbon fiber sandwich construction.

The Cable Pickup weighs only 8.5 kg which makes it float in water.

TESTING AND CERTIFICATION

We thoroughly test every delivered cable pickup with an overload to ensure that every single one is according to the specifications.

CORROSION RESISTANCE

All materials used in the Cable Pickup is extremely corrosion resistant and will have a long operational lifespan.
OFF-LOAD HOOKS
Most Henriksen Hooks are off-load hooks, this means that the hook cannot release the boat until the boat hits the water. This means that you avoid dangerous and unintentional hook releases which causes the boat with crew members to drop from large heights. This is a very dangerous event and does unfortunately happen all to often with on-load hooks. It is the geometry of the off-load hook itself that eliminates this possibility, as the hook is unable to release until the load has been off-loaded, hence the term off-load hook. Below is a illustrated explanation.

Hook Closed
When the hook is in the closed state, a manual latch prevents the hook element from rotating, while a spring loaded pawl keeps the lifting ring securely fastened inside the hook.

Hook Activated
When the hook is activated, the locking latch is removed and the hook is in the off-load state. When an off-load hook is subject to a load as shown, the hook is unable to rotate and release the lifting ring. This is due to its inherently stable geometry and we therefore say that is locked by its load. This is what makes our off-load hooks so safe.

Opens Automatically
When the internal release mechanism has been activated and the load applied through the lifting ring to the hook approaches zero, the hook element is able to rotate and release the lifting ring. This means that the hook opens automatically when the boat hits the water. But only if the hook has been activated.
LIFT TYPES

SINGLE POINT
TWIN POINT
SLINGS (4-POINT)

SINGLE POINT LIFT

TOWING HOOK
LIFTING HOOK
LIFTING LINE
PAINTER LINE
PAINTER HOOK

SLING LIFT

CRANE HOOK
LIFTING SLINGS
LIFTVIEW
The Henriksen Liftview system enables the user to view in real time information about a lift, including load, tilt/roll. The user output is viewed on a screen that also logs every lift. The system contains information about the current hook, all lifts and so on.

For more information please visit www.hhenriksen.com