FOLDABLE TELESCOPIC CRANES
Focus on our customer

The Heila Group focuses on establishing long-term relationships with its customers, speed, proactiveness, and technical reliability. With energy and passion. In practice this means engineering and manufacturing the most reliable custom-built marine and offshore cranes, with capacities ranging from 3 up to 4,000 tm. Always in cooperation with our customers. Always striving to find the perfect solution.

MISSION
We supply the most reliable custom-built cranes to our customers in the marine and offshore industry. We aim to satisfy their every need with respect to deck cranes.

“Quality, reliability and service are Heila’s unique selling points. The company has gathered together a group of true professionals who are reliable and skilled.”
Neptune Shipyard BV

“We prefer quality cranes for our vessels and value at the same time a good understanding and relationship with our suppliers. No problem for Heila: our long-term cooperation with Heila proves this”
Damen Shipyards, Hardinxveld

Our cranes are synonymous with safety, reliability and low operational costs.

HEILA CRANES GROUP:
Heila Cranes SpA in Italy
Heila Cranes Nederland BV in The Netherlands
Heila Cranes Southeast Asia Pte Ltd in Singapore

HIGHLIGHTS:
- Over 40 years of experience
- 5,250 marine cranes engineered and manufactured
- 197 cranes certified by class in the last 3 years
- Outstanding in-house engineering capability
Heila Foldable Telescopic Cranes: the HLM and HLRM series

Heila foldable telescopic cranes are of superior quality. This is the result of more than 40 years of experience and technical expertise in designing, producing components and developing the manufacturing process to meet the highest quality standards.

Facts:
• more than 3,000 foldable telescopic cranes manufactured and delivered
• market leader in foldable telescopic cranes
• first to produce a HLRM 1000 crane; a 70-ton crane featuring a telescopic arm with a maximum reach of 30 m that is very compact in storage position.

Features:
• Originally designed for a marine environment
• Compact
• Safe & reliable
• Easy operation
• Easy maintenance

Heila Anti-Corrosion Program
Our Anti-Corrosion Program ensures that the crane’s structure and seals have a long life, even if the crane operates in a harsh environment.

• Complete Surface Treatment: structural design, surface preparation and painting process compliant with ISO 12944-C5M.
• High-durability, chrome-plated hydraulic cylinder rods.
• Geomet-coated structural bolts.
• Stainless steel AISI 316 pin locking system designed according to DIN 15058.
• Hydraulic fittings protected by special silicone spray and special vulcanised rubber tape.
• All non-structural screws and bolts made from stainless steel protected with silicone.
• Rigid pipes and relevant fittings in AISI316 stainless steel
• Stainless Steel junction boxes and encoders.
HLM CRANES: Fully foldable telescopic cranes with rack and pinion slewing system

The HLM cranes with their rack and pinion slewing system are very compact and light. This makes the HLM type ideal for use on small vessels, especially where space is limited. Cranes of this type, our ‘workhorses of the sea’, are indispensable for auxiliary vessels including multifunctional work boats, tugs and pontoons.

CHARACTERISTICS
- The crane is able to work in any configuration; with boom extended upwards or folded downwards offering great manoeuvrability
- Rotation exceeds 360°. This is possible because the crane is fitted with a double rack and pinion system with bronze bushes that guarantees safe operation, even at excessive heel and trim angles.

STRONG AND RELIABLE
- Doubbling the number of racks and cylinders doubles the power of the slewing system. Moreover, the life of these components is extended because the load is shared.

CUSTOMISATION
- The HLM crane series is standardised, however, there are a surprising number of options allowing a degree of customisation.

CONTROL AND SAFETY
- Stationary fixed control console
- Counterbalance valves directly mounted on each cylinder provide a fast response
- Proportional Electrohydraulic Control Valve

Block with internal compensation for simultaneous movements and self-centering manual levers; supplied by primary world-wide producers
- Electrohydraulic load moment limiting device; prevents the crane being overloaded and damaged.

HORIZONTAL LOAD HLM CRANES

<table>
<thead>
<tr>
<th>Crane model</th>
<th>no of extensions</th>
<th>Length of boom (m) and crane lifting capacity (kg)</th>
<th>HEILA Cranes STANDARD Products Table Revision 1 – 1 June 2018</th>
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</thead>
<tbody>
<tr>
<td>HLM 3</td>
<td>1S</td>
<td>m 3.5 5.17</td>
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<td></td>
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<td>1,000 650</td>
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</tbody>
</table>
| Condition: Sea state 0 or harbour conditions

Features:
- Originally designed for a marine environment
- One (1) cylinder for multiple telescopic movements
- Designed for easy maintenance
- High degree of customisation

For the minimum outreach, please check the technical data sheet.
HLRM CRANES: Fully foldable telescopic cranes & Foldable knuckle telescopic cranes

HLRM cranes featuring slew bearings and continuous rotation, are available as fully foldable telescopic cranes and as telescopic knuckle boom cranes.

THE BEST LIFTING PERFORMANCE
The fully foldable telescopic cranes are designed to provide the best lifting performance combining exceptional boom strength with a powerful slewing ring rotation system. The cranes are suitable for a wide range of on-board and off board activities including buoy handling and the hoisting of structures and equipment.

NO COMPROMISE ON QUALITY
Heila provides all of the features and uses quality components to construct cranes that offer excellent performance. The cranes are designed for the tough environmental conditions at sea. We protect all of our cranes – large and small - by thoroughly sand blasting them, applying marine paint systems and using stainless steel pipe fittings.

HEAVY DUTY OPERATION
Each crane component is selected and designed for heavy duty operation in a marine environment, they feature:

• Heila Anti-Corrosion Program
• Standard design temperature -20°C +45°C
• Minimum IP 56 protection standard on all electric cabinets and junction boxes on the crane
• Electronic Safety System protects the crane from being overloaded

ALWAYS PUSHING THE ENVELOPE
Starting from the first development of the Heila telescopic knuckle boom crane, Heila has always strived to build bigger and better cranes. Heila was the first to build many of the larger cranes of this type, culminating in the HLRM 1000-8S in 2018.

This crane is able to lift 14,300kg at a reach of almost 30m and 52,500kg at 13.4m.

Despite its small footprint, it is a high-capacity crane. In combination with various options, including Active Heave Compensation (AHC), this crane is a cost-effective, highly versatile but compact tool, suitable for many offshore activities, thus greatly reducing mobilisation time of vessels. It is the offshore equivalent of a Swiss army knife.
### HORIZONTAL LOAD HLRM CRANES

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<td>8.63</td>
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<td>11.60</td>
</tr>
</tbody>
</table>

### Condition: Sea state 0 or harbour conditions

Horizontal loads, lifting by hook in harbour conditions
For the minimum outreach, please check the technical data sheet.

### Features:
- Originally designed for a marine environment
- Continuous slewing
- Designed for easy maintenance
- High grade of customisation
Heila, with its HLRM series, is the market leader in foldable knuckle boom cranes. We design, develop and deliver our HLRM cranes as standard cranes or completely custom made. The entire range from small to large cranes is available and can be delivered quickly.

The HLRM crane is the perfect solution when high capacity is required at a short outreach and when deck space is limited. We develop solutions for customers in areas ranging from the fishing industry to the offshore sector and other areas of the maritime sector.

Heila was the first company to supply a 340 tm knuckle boom telescopic crane. It was also the first to supply a HLRM 460 tm dredging crane and the first to supply a HLRM 580 tm crane. The natural next step was to break the 1000 tm barrier.

The HLRM 1000 features:
- Outreach up to 30 metres
- Lifting capacity up to 70 tons
- Compact crane in storage position
- Suitable for sub-sea application
- Originally designed for a marine environment

The company has supplied numerous sub-sea and active and passive heave compensation installations. Our HLRM 1000-6SL, a 70-ton foldable knuckle telescopic crane, will dramatically change the heavy-duty crane market. Even though it is equipped with a telescopic arm that can extend to a maximum radius of 30 metres, the crane only requires a limited space.

Leadership in foldable telescopic cranes
<table>
<thead>
<tr>
<th>Model</th>
<th>Length of Boom (m) and Crane Lifting Capacity (kg)</th>
<th>Features:</th>
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<tbody>
<tr>
<td>HRLM 50</td>
<td>10.58 12.02 13.63 16.68</td>
<td>- High degree of customisation</td>
</tr>
<tr>
<td>HRLM 55</td>
<td>9.07 11.03 13.07 15.03</td>
<td>- Continuous slewing</td>
</tr>
<tr>
<td>HRLM 60</td>
<td>8.45 10.51 12.51 14.51</td>
<td>- Especially suitable for high loads</td>
</tr>
<tr>
<td>HRLM 65</td>
<td>7.89 9.95 11.95 13.95</td>
<td>- Originally designed for a marine environment</td>
</tr>
<tr>
<td>HRLM 70</td>
<td>7.34 9.38 11.38 13.38</td>
<td>- Continuous slewing</td>
</tr>
<tr>
<td>HRLM 75</td>
<td>6.80 8.84 10.84 12.84</td>
<td>- High degree of customisation</td>
</tr>
</tbody>
</table>

**Sea state 0 or harbour conditions**

Horizontal loads, lifting by hook in harbour conditions

For the minimum outreach, please check the technical data sheet.

**Features:**
- Originally designed for a marine environment
- Especially suitable for high loads
- Continuous slewing
- High degree of customisation
Options and Accessories

Optional features for Heila cranes

**DESIGN FEATURES**

- **CERTIFICATION & CLASSIFICATION**
  Heila Crane S.p.A marine cranes are compliant to the EN 13001 / DIN 15018 and, if required, the principal international standards for shipboard and offshore applications including EN13582-1 and API-2C. All cranes can be certified in accordance with the rules of international classification societies including:
  - American Bureau of Shipping (ABS)
  - Bureau Veritas (BV)
  - China Classification Society (CCS)
  - Det Norske Veritas – Germanischer Lloyd (DNV/GL)
  - Lloyd’s Register of Shipping (LRS)
  - Registro Italiano Navale (RINA)
  - Norwegian Maritime Authority (NMA)
  - Russian Maritime Register of Shipping (RMRS)
  - Others on special request

We use 3D CAD systems, verified ANSYS software and FEA techniques (Finite Element Analysis) to check and assure the structural integrity of our equipment.

- **AUTOMATIC- AND MANUAL OVERLOAD PROTECTION SYSTEM (AOPS / MOPS)**
  The AOPS / MOPS system is mandatory in case of fully certified offshore cranes lifting from offshore platforms to ships or in case of ship to ship lifting operations. Heila Cranes S.p.A will install the complete system that features special winches, load cells that measure the working load on the winch and a complete electronic system with dedicated PLC. The AOPS system is a safety equipment that automatically safeguards and protects the crane against overload and ‘overturning-moment’ during operation by allowing the hook to be pulled away from the crane in a controlled manner to avoid significant damage. In case of activation of the MOPS system the winch release is manually activated by the crane operator if that person is alarmed by the system about the risk of overload.

- **LOW TEMPERATURE AND ARCTIC SOLUTIONS**
  Heila Cranes S.p.A is highly experienced in the design and production of cranes for low temperature environments. An extensive range of options and accessories are available to ensure that each Heila crane answers to our client requirements. Special steel for low temperatures and specific technical solutions for winterization assure the safe operation of the cranes in the most severe low temperatures and Arctic environmental conditions.

- **ATEX / NEC505 HAZARDOUS AREA EXECUTION**
  Heila Cranes S.p.A offers their clients the option for specialized marine cranes suitable for operation in hazardous areas (explosion proof execution) such as Zone D.I and I with temperature class T3 or T4. All cranes will be supplied with a dedicated EX-ATEX Declaration of Conformity. Upon request, HEILA Cranes S.p.A can supply equipment for other zone and classes.

- **LIFTING DEVICES AND LOAD CONTROL**

  - **HOISTING WINCHES**
    Heila Cranes S.p.A provides a wide and complete selection of winches. From 500 kG up to more than 50 metric tons single line pulling capacity with multiple different speeds, drum rope capacities and in accordance with client requirements. Equipped with an electric/hydraulic load limiting device that controls the pulling force on the rope and maximum requested safe working load of the crane. All our winches are provided with non-rotating galvanized and greased steel cables to ensure the best performance in all working conditions.

  - **CONSTANT TENSIONING (CT) WINCHES**
    Heila Cranes S.p.A constant tensioning winch systems are the combination of special winches and customised electronic control systems integrated with a dedicated PLC. Constant tensioning winches are used for difficult lifting operations in harsh marine environments. The system creates a constant line-pull between the load and the lifting device. Prior to starting the operation the line-pull is set. This line pull is measured by a load sensor and is monitored by the PLC central control system. If the actual value differs from the pre-set value, the winch will pay in or pay out wire rope to maintain the pre-set value. Constant tensioning winch systems are suitable for pre-tensioning the wire rope used in buoy-laying operations, but also during positioning and connecting floating pipelines in dredging projects. Moreover, it is perfect for raising and lowering a tender boat or deck equipment from a vessel into a difficult sea.

  - **PERSONNEL LIFTING ACCORDING EN 123852-1 OR API-2C**
    Heila Cranes S.p.A offers their clients a complete scope of solutions for personnel lifting according to EN 13582-1 or API-2C. Heila can equip their cranes with ‘dedicated winches’ for personnel lifting or ‘dual use winches’ to be adopted for both cargo handling and personnel lifting. Fully executed with safety valves and double brake systems the winch range is extended up to a personnel lifting capacity of 8 metric tons.

- **ACTIVE HEAVE COMPENSATION (AHC)**
  Current offshore and subsea projects require more advanced technology for handling loads to the seabed for subsea installation works or in mid-air such as wind turbine service operations. This is achieved using an active heave compensation system on the crane to compensate vessel movements. Heila Cranes S.p.A supplies tailor-made active heave compensation systems on winches that rely on the input of motion sensors. Responding to the signal from these sensors,
Options and Accessories

mission offers maximum safety and reliability. The system is available in different configurations/models and can also be executed as explosion proof up to Zone II hazardous areas.

STANDING PLATFORM
Heila marine cranes are equipped with a standing platform attached to the crane column that rotates with the crane when slewing. The platform is fitted with a safety bar to protect the operator. The platform completely covers the hydraulic control valve block and the overload cut-off system.

LOCAL CONTROL OPERATOR PANEL
Heila marine cranes can be supplied with a separate local control operator panel that can be installed close to the crane. The control panel has a cover that protects the control valve block from saltwater spray, ice, damage and unauthorised use.

CLOSED OPERATOR CABIN
When the crane will be used in harsh environmental conditions, or when the applicable rules and regulations require it, an enclosed operator cabin can be provided. Various versions and comfort levels are available. Operator cabins can be equipped with a wide range of accessories including air conditioners, heaters, joystick controls, video screens, and radios.

SEA STATE SELECTOR
Heila marine cranes can optionally be designed to operate in different sea states. To be able to select the type of operation for the different states, a crane must be fitted with a sea state selector switch on its control panel (either at a fixed location or as wireless control unit). The sea state selector switch allows the crane to be operated safely and precisely in difficult marine conditions.

ACOUSTIC AND VISUAL ALARMS
Acoustic and visual alarms can be installed on cranes to allow the crane to be operated reliably and safely. A green / yellow / red light is installed on the crane column. This shows, respectively, the 50% / 100% / 110% SWL load being experienced by the crane. In addition to the visual alarm, an acoustic alarm can be installed. Acoustic and visual alarms are mandatory for use on fully IACS certified cranes.

LOAD AND RADIUS INDICATORS
Depending on the type of application and/or in agreement with the customer, Heila Cranes S.p.A can provide specific load and radius indicators that can be displayed on one or more portable remote units or on video screens installed in operator control stations and/or in operator cabins. We can also provide the crane with a visual indication of the loads and 3D controls.

LED FLOODLIGHT
LED floodlights can be fitted to the tip of the crane’s boom to illuminate the working area around the crane. Heila Cranes S.p.A offers swivelling or fixed solutions with different power outputs ranging from 100 to 1000 equivalent Watt (W).

LOAD SENSING (LS) SYSTEM
In situations where a more complex hydraulic circuit is used, HEILA Cranes S.p.A can fit a main hydraulic control valve block that can be used with load sensing (LS) pumps. This solution increases the efficiency of the hydraulic circuit and reduces both the power loss of the system and the heating of the oil. For the best solution, this feature must be discussed with the customer.

CENTRALISED GREASING SYSTEM
Heila marine cranes have greasing points on all pins and pivot points to keep them operating efficiently and to prevent excessive wear. A ‘Manual Central Greasing System’ can be installed as an optional feature on all Heila cranes to simplify maintenance and extend the crane’s life.

SURFACE TREATMENT AND ANTI-CORROSION SOLUTIONS

FLAME METALLISATION TREATMENT
Flame metallisation is a thermal spray coating process that is used to coat anti-corrosive metals onto surfaces, it is long lasting and highly effective. On request, Heila Cranes S.p.A can thermally spray zinc and aluminium onto all of the crane’s structural steel parts providing the highest grade of corrosion protection.

PAINTING AND CUSTOM CRANE COLOUR
The standard Heila Cranes S.p.A paint system complies with ISO 12944-5 (CSM – marine/offshore applications); the standard colour is RAL ‘1005 Honey Yellow’. However, Heila Cranes S.p.A also offers alternative paint systems. These systems comply with NORSOK M-501. Special isocyanate-free paint systems and/or special customer-specific paint systems are also possible. All top coats are available in specific customer-specified RAL colours.

HYDRAULIC CYLINDER ROD COATING
Heila Cranes S.p.A has improved the corrosion resistance and wear-resistance of its hydraulic cylinder rods with two unique treatments registered under the names HD4+ and HD4stars. These innovative hi-tech solutions efficiently protect the cylinder rods from corrosion and help to protect against leaks, coating peeling and seal wear. (For more information please consult the specific “Heila Cranes Anti-Corrosion Program” brochure).

Heila Cranes S.p.A offers a wide range of options and accessories, including air conditioners, heaters, and LED floodlights. All systems comply with the applicable rules and regulations. The crane’s structural steel parts are protected with anti-corrosive paints, and the cylinder rods are coated with high-quality solutions. The crane’s structural steel parts are protected with anti-corrosive paints, and the cylinder rods are coated with high-quality solutions. The crane’s structural steel parts are protected with anti-corrosive paints, and the cylinder rods are coated with high-quality solutions. The crane’s structural steel parts are protected with anti-corrosive paints, and the cylinder rods are coated with high-quality solutions. The crane’s structural steel parts are protected with anti-corrosive paints, and the cylinder rods are coated with high-quality solutions. The crane’s structural steel parts are protected with anti-corrosive paints, and the cylinder rods are coated with high-quality solutions. The crane’s structural steel parts are protected with anti-corrosive paints, and the cylinder rods are coated with high-quality solutions. The crane’s structural steel parts are protected with anti-corrosive paints, and the cylinder rods are coated with high-quality solutions. The crane’s structural steel parts are protected with anti-corrosive paints, and the cylinder rods are coated with high-quality solutions. The crane’s structural steel parts are protected with anti-corrosive paints, and the cylinder rods are coated with high-quality solutions.
Worldwide service

Cranes must be able to operate efficiently under the most diverse sea conditions. Wherever our customers may be, we ensure that their cranes remain operational.

Heila Cranes Netherlands is responsible for Heila’s field services worldwide. We provide customers with technical support, on-site repairs, installation, commissioning and the complete refurbishment of their cranes. Furthermore, critical spare parts, such as cylinders, seal kits, air brakes and electrical components for standard cranes are held in stock in the Netherlands. When you buy a new Heila crane, we are available to provide you with information about our standard spare parts packages.

To support your business, we also have a wide range of cranes in stock, ranging in capacity from 2 tm to 280 tm.

Refurbishment

The HEILA refurbishment program offers several types of refurbishment, ranging from component repairs, and the refurbishment of slewng gearboxes, control valve blocks, cylinders and winches to full crane refurbishments.

Benefits of refurbishment:
- Reduced downtime
- New warranty period
- Extended product life
- New anti-corrosion treatment

Rental Crane Program

An easy and economical solution

Heila Group has developed a rental program for foldable knuckle boom cranes. You can rent a crane for the duration of your project. This could also be when your own crane is being refurbished by Heila. This means 100% availability of your vessel.

The rental cranes are built according to international standards. They are covered by an OEM warranty during the rental period. We have Heila cranes available for rent* in stock in the range of 80 tm – 230 tm. However, if there is no appropriate crane listed below, please feel free to enquire. We will search for a suitable solution.

- HLRM 80-3S
- HLRM 140-4SLK
- HLRM 170-4S
- HLRM 230-4SLK

Features:
- Available where you want
- Available when you want
- Continuous availability of your vessel while your crane is being refurbished

* depending on availability
Complete range of Heila cranes

The HLM and HLRM series cranes described in this catalogue are the core products of the Heila Group. However, Heila has a highly skilled team of engineers that are able to design complex, state-of-the-art cranes. These are referred to as Heila Special Projects, custom engineered, highly complex and often high-capacity cranes.

**HEILA SPECIAL PROJECTS**

Heila can provide numerous references for such projects, please contact our Sales Managers or contact your local Heila representative for more information.

When Heila is contracted to supply a special crane, a dedicated Project Manager is assigned to the project. The Project Manager is responsible for the detailed planning, reporting and progress monitoring. In addition to the Project Manager; a Project Engineering Team and a Lead Engineer are assigned who are responsible for the crane’s engineering. A weekly Design Review Meeting is held to monitor the project’s progress.

**ENGINEERING CAPABILITY**

Heila has significant experience in designing and building all of the cranes mentioned below. Heila also has highly specialised knowledge and experience in designing and building cranes suitable for Arctic conditions and ATEX environments, as well as specialised dredging cranes (DRG) that are able to operate at extreme heel and trim angles.

Heila has in-house the capability to build customised crane safety & control systems, and is able to develop PLC software. It is therefore able to support and maintain the crane’s safety & control system throughout the crane’s life.

**Stiff boom cranes - HMR-F**

10 tm - > 4,500 tm

**Characteristics:**
- Marine crane
- Continuous slewing
- Crane boom not extendable
- Low maintenance
- Easy to adapt for ATEX environments

**Telescopic cranes - HMR-S**

3 tm - > 1,000 tm

**Characteristics:**
- Marine crane
- Continuous slewing
- Crane boom is extendable, which enlarges the working area

**Telescopic knuckle boom cranes - HLRM**

60 tm - > 1,000 tm

**Characteristics:**
- Marine crane
- Continuous slewing
- Crane boom is both knuckled and extendable, enlarging the working area
- High manoeuvrability
- Compact storage configuration
- Possibility to use a fixed hook
- Maximum capacity at short outreach

**Fully foldable telescopic cranes - HLM, HLRM**

3 tm – 90 tm

**Characteristics:**
- Marine crane
- Knuckle boom
- Foldable and extendable, which enlarges the working area
- Maximum capacity at short outreach

**Jib cranes – HR-2BJ**

20 tm - > 4,500 tm

**Characteristics:**
- Marine crane
- Knuckle boom
- Maximum capacity at a wide range of outreaches, large working area
- Easy to adapt for ATEX environments
- Low maintenance

**Customised cranes**

Capacity per customer requirement

**Characteristics:**
- Marine crane
- Completely customised design
- Adapted to any dimensional constraints
- Adapted to any other special requirement

**Lattice boom crane - HLBC**

Capacity per customer requirement

**Characteristics:**
- Marine crane
- Continuous slewing
- High lifting capacity to weight ratio
- Modularised for easy transport