AK CRANE RANGE
FULLY FOLDABLE KNUCKLE AND TELESCOPIC BOOM TYPE

the ultimate crane specialist
AK SERIES

Fully foldable knuckle and telescopic boom type cranes of different standard capacities. Custom built for operation to specific sea state conditions.
HS.Marine offer a wide range of optional solutions for the cranes. We are always available to discuss the technical specifications in order to find solutions that makes our cranes ideally suited for our customers’ special application.

Some of the most common options are:

- **Hoisting winches**
  - Including various type of pulley block, boom head, counter weight, hydraulic limit switch, electrical limit switch, load read out on winch, passive heave compensation, AOPS, MOPS, emergency drum release

- **Personnel lifting according to EN13852**

- **Centralized greasing system**

- **Flame metallization surface treatment**

- **Various operator control positions**
  - Separate control console, integrated seat or stand console, control support on column, cabin, radio remote control, cable remote control, remote seat chair control

- **Boom mounted led lights**

- **Power packs for deck installation or for underdeck installation**

- **Stainless steel cylinder rods or ceramic coated rods**

- **Nuts, bolts and plastic caps and plugs for crane installation**

- **Advanced safety system**
  - Including HS.Marine Multifunction Service Unit and DiaMonD service software; local and remote operator screen with visualization of load, moment, message, warning and alarms

- **Sea state selector**

- **Acoustic and visual alarm**

- **Interface with other customer’s equipment and remote emergency stop in category 2**

- **Load radius indicator**

- **Design approval, inspection during fabrication, witness of FAT by classification society, crane certification**

- **Extra elements on distributor block with hydraulic activation till boom end for additional equipment**

- **Low design temperature**

- **Crane color**

- **Crane adaptor for installation on existing basements**
QUALITY SOLUTIONS / QUALITY DETAILS

MARINE DESIGN
Our crane design has been specially developed and improved for operation in marine environment. All structures have been designed to take up heavy lateral forces and to have a low value of elastic deflection during loading. All parts have been designed and protected for easy maintenance. Designed for Long Life

Each crane component and each crane part is selected and designed for long life. We totally understand what downtime means in marine business and the impact of service costs. Our goal is the reliability of the crane therefore we only use components or technical solutions of proven long lifespan.

CRANES WITHOUT LIMITATIONS
Our cranes can work in any configuration: no matter if the boom is fully vertical extended up or if it is knuckled downwards. The safe working load can be moved by any crane cylinders, including the telescopic ones.

TRANSPORT STEEL FRAME
Together with the cranes, we include a suitable transport frame made in steel. The transport frames are suitable for handling by forklift and offer extra protection and easier handling for safe delivery to customer.

EASY AND TESTED INSTALLATION
HS.Marine guarantees easy installation of all cranes. All the cranes connection points are properly prepared and clearly marked in order to make the installation as easy as possible. We always prepare the specific interface with customer’s system and we test the crane with such interface before delivery.

LARGER PINS
In comparison to other cranes, the articulation points of our cranes are most likely bigger. We always calculate and design the cranes to withstand side loads. This results in larger pins.

POWERFUL SLEWING
To guarantee higher rotation torque capability, all HS.Marine cranes are provided with slew bearings and powerful and precise gearboxes. All HS.Marine cranes can be supplied for continuous unlimited slewing.

EXCEPTIONAL STRENGTH AND LOW FLEXION

CRANE DESIGN BASED ON RELIABILITY
We focus on quality solutions and quality of the components.

CRANE BOOM TELESCOPIC SEQUENCE
As a befitting safety issue, we underline that the crane booms respects the telescopic sequence during extension out and retraction.

STAINLESS STEEL CONTROL POSITIONS
Control position are in stainless steel and have high protection from water spray.

HIGH ATTENTION TO DETAIL
For the best reliability and for easy maintenance.

SALT PROOF SEALING
We do our utmost to completely seal any exposed opening, such as the surface between two flanges, pins, plugs, umbraco bolts hearts, cylinder plugs, access holes for maintenance etc.

SURFACE TREATMENT GIVING A LONGER LIFE
Our design, our material and component selection, our excellent surface treatment and painting procedures and our salt proof sealing, all guarantee a strong barrier against corrosion.

DETAIL PROTECTION
All components are individually painted before assembling.

TAGGING
Cable, hose and components are tagged with the spare parts code.

FULLY TESTED
All our cranes are always load tested at the factory prior to delivering to our customers.

CUSTOMER SERVICE
None of our customers are left alone. We have a global service network. We care about our customers.

AS BUILT DOCUMENTATION
All provided documentation is as built, extensive and specially prepared for each individual crane. Each manual states the crane serial number and shows actual photographs taken of the crane and its many details.
HS.Marine has a wide range of **fully foldable knuckle and telescopic boom cranes**, for low deck space occupation and very compact recovering.

All model can be heavily customized versions according to the customers’ special applications.

All cranes have been designed and built from the ground up for marine use and are successfully utilized in the most critical application demonstrating reliability.

HS.Marine cranes are designed and built to last.

Low and easy maintenance, reduced spare parts consumption, smaller crane down time and significantly longer time make HS.Marine the best value money can buy.

The marine environment demands equipment of the highest level of quality to ensure reliable and safe operations: HS.Marine cranes are able to satisfy these requirements.

**Through experience, service commitment and global presence we provide the best cranes and life cycle support.**

**HS.MARINE THE QUALITY SOLUTION**

HS.Marine range include stiff boom, telescopic boom, knuckle boom and knuckle telescopic boom cranes.