

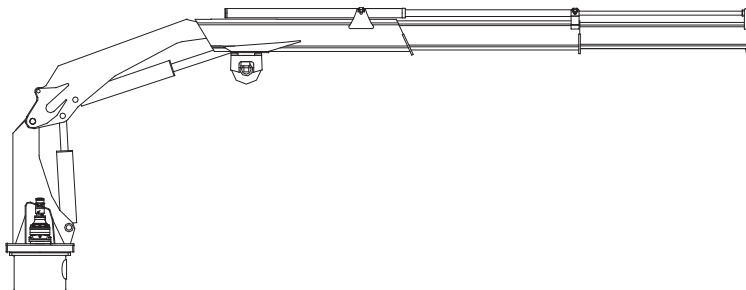


# AK CRANE RANGE

FULLY FOLDABLE KNUCKLE AND TELESCOPIC BOOM TYPE

**HS**  **MARINE**

the ultimate crane specialist





# AK SERIES

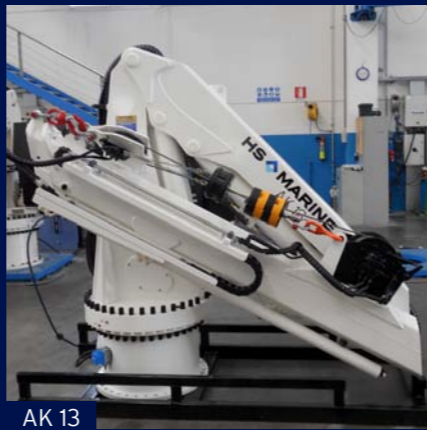
Fully foldable knuckle and telescopic boom type cranes of different standard capacities. Custom built for operation to specific sea state conditions.

AK 7 NE1	Kg 2400 1345 900 m 2.30 4.10 5.90
AK 7 NE2	Kg 2305 1275 842 625 m 2.30 4.14 5.94 7.74
AK 10 NE1	Kg 2660 1660 1115 m 3.00 4.78 6.78
AK 10 LNE1	Kg 2615 1545 1005 m 3.00 5.03 7.28
AK 10 NE2	Kg 2560 1575 1035 762 m 3.00 4.84 6.89 8.94
AK 10 LNE2	Kg 2515 1470 932 675 m 3.00 5.09 7.39 9.69

AK 13 HE1	Kg 3190 1980 1345 m 3.13 4.93 6.93
AK 13 LHE1	Kg 3150 1860 1227 m 3.13 5.18 7.43
AK 13 HE2	Kg 3060 1875 1245 925 m 3.13 4.99 7.04 9.09
AK 13 LHE2	Kg 3025 1755 1125 820 m 3.13 5.23 7.53 9.83
AK 13 HE3	Kg 2795 1785 1145 830 645 m 3.08 4.99 7.04 9.05 11.15
AK 13 HE4	Kg 2795 1655 1030 718 543 440 m 3.08 5.10 7.15 9.15 11.23 13.29
AK 16 HE1	Kg 4070 2525 1725 m 3.13 4.95 6.95
AK 16 LHE1	Kg 3965 2335 1550 m 3.13 5.20 7.45
AK 16 HE2	Kg 3865 2355 1570 1170 m 3.13 5.00 7.05 9.10
AK 16 LHE2	Kg 3825 2210 1425 1040 m 3.13 5.23 7.53 9.83
AK 16 HE3	Kg 3770 2275 1480 1080 845 m 3.13 4.98 7.03 9.03 11.13
AK 16 HE4	Kg 3600 2125 1350 955 730 595 m 3.07 5.08 7.13 9.14 11.22 13.28

AK 20 E1	kg 5275 3320 2240 m 3.00 4.73 6.78
AK 20 LE1	kg 5235 3120 2055 m 3.00 4.98 7.28
AK 20 E2	kg 5110 3175 2120 1580 m 3.00 4.79 6.84 8.89
AK 20 LE2	kg 5055 2980 1930 1415 m 3.00 5.04 7.34 9.64
AK 20 E3	kg 4945 3025 1985 1460 1140 m 3.00 4.85 6.90 8.91 11.01
AK 20 E4	kg 4755 2840 1830 1315 1010 822 m 3.00 4.96 7.01 9.02 11.10 13.16
AK 25 HE1	kg 6570 4140 2810 m 3.00 4.73 6.78
AK 25 LHE1	kg 6500 3885 2570 m 3.00 4.98 7.28
AK 25 HE2	kg 6400 3980 2680 2005 m 3.00 4.79 6.84 8.89
AK 25 LHE2	kg 6270 3705 2425 1782 m 3.00 5.04 7.34 9.64
AK 25 HE3	kg 6150 3775 2500 1845 1450 m 3.00 4.85 6.90 8.91 11.01
AK 25 HE4	kg 5970 3567 2340 1700 1320 1080 m 3.00 4.96 7.01 9.02 11.10 13.16
AK 25/14 HE4	kg 5720 3320 2090 1490 1130 920 m 3.00 5.13 7.35 9.52 11.77 14.00

AK 30 HE2	kg 6920 4225 2920 2220 m 3.20 5.20 7.20 9.21
AK 30 LHE2	kg 6840 3935 2630 1960 m 3.20 5.50 7.80 10.11
AK 30 HE3	kg 6600 4095 2745 2040 1600 m 3.20 5.11 7.11 9.08 11.21
AK 30 HE4	kg 6390 3855 2555 1870 1450 1180 m 3.20 5.23 7.23 9.20 11.28 13.38
AK 30 LHE4	kg 6100 3460 2170 1530 1160 930 m 3.20 5.56 7.89 10.18 12.59 15.01
AK 34 HE2	kg 8030 4900 3395 2580 m 3.20 5.20 7.20 9.21
AK 34 LHE2	kg 7930 4565 3055 2280 m 3.20 5.50 7.80 10.11
AK 34 HE3	kg 7700 4785 3225 2405 1890 m 3.20 5.11 7.11 9.08 11.21
AK 34 HE4	kg 7520 4560 3050 2250 1755 1440 m 3.20 5.23 7.23 9.20 11.28 13.37
AK 34 LHE4	kg 7120 4070 2580 1830 1400 1130 m 3.20 5.56 7.88 10.18 12.59 15.01
AK 34/15.8 E4	kg 6930 3760 2350 1650 1250 1000 m 3.20 5.82 8.28 10.71 13.25 15.80



AK 40 E2	kg m	6120 3.40	5795 5.30	4045 7.30	3090 9.31			
AK 40 LE2	kg m	9015 3.40	5410 5.60	3650 7.90	2738 10.21			
AK 40 E3	kg m	8825 3.40	5745 5.18	3915 7.18	2940 9.15	2320 11.28		
AK 40 E4	kg m	8640 3.40	5490 5.30	3720 7.30	2770 9.27	2175 11.35	1790 13.44	
AK 40 LE4	kg m	8450 3.40	5045 5.63	3270 7.96	2365 10.25	1820 12.66	1480 15.09	
AK 48 E2	kg m	10900 3.40	6950 5.30	4885 7.30	3750 9.31			
AK 48 LE2	kg m	10785 3.40	6495 5.60	4420 7.90	3335 10.21			
AK 48 E3	kg m	10570 3.40	6900 5.18	4730 7.18	3570 9.15	2825 11.28		
AK 48 E4	kg m	10340 3.40	6590 5.30	4495 7.30	3370 9.27	2655 11.35	2190 13.44	
AK 48 LE4	kg m	9850 3.40	5900 5.63	3840 7.96	2780 10.25	2140 12.66	1750 15.09	
AK 48/15.8 E4	kg m	9320 3.40	5490 5.82	3510 8.28	2510 10.71	1920 13.25	1560 15.80	
AK 48/18.5 E5	kg m	9000 3.40	5170 5.96	3250 8.42	2270 10.85	1690 13.39	1330 15.95	1100 18.55

AK 55 E2	kg m	12490 3.40	7960 5.30	5600 7.30	4300 9.31		
AK 55 LE2	kg m	12365 3.40	7450 5.60	5075 7.90	3830 10.21		
AK 55 E3	kg m	12080 3.40	7890 5.18	5415 7.18	4095 9.15	3245 11.28	
AK 55 E4	kg m	11850 3.40	7550 5.30	5160 7.30	3875 9.27	3055 11.35	2525 13.44
AK 61 E2	kg m	13165 3.50	8520 5.41	6075 7.36	4640 9.42		
AK 61 LE2	kg m	13040 3.50	7990 5.71	5515 7.96	4135 10.32		
AK 61 E3	kg m	12770 3.50	8450 5.30	5915 7.25	4460 9.27	3545 11.40	
AK 61 E4	kg m	12500 3.50	8015 5.46	5590 7.41	4180 9.43	3310 11.51	2730 13.62
AK 61 LE4	kg m	12000 3.50	7320 5.73	4900 7.96	3570 10.26	2780 12.61	2270 15.00
AK 61/19.5 E5	kg m	6140 6.23	3850 8.76	2640 11.35	1940 14.01	1510 16.70	1250 19.30

AK 67 E2	kg m	14600 3.50	9455 5.41	6765 7.36	5180 9.42		
AK 67 LE2	kg m	14500 3.50	8890 5.71	6160 7.96	4630 10.32		
AK 67 E3	kg m	14205 3.50	9405 5.30	6610 7.25	5000 9.27	3980 11.40	
AK 67 E4	kg m	13950 3.50	8955 5.46	6275 7.41	4720 9.43	3745 11.51	3095 13.62
AK 72 E2	kg m	15835 3.50	10255 5.41	7345 7.36	5625 9.42		
AK 72 LE2	kg m	15690 3.50	9620 5.71	6680 7.96	5025 10.32		
AK 72 E3	kg m	15240 3.50	10090 5.30	7070 7.25	5345 9.27	4245 11.40	
AK 72 E4	kg m	14925 3.50	9580 5.46	6695 7.41	5025 9.43	3980 11.51	3290 13.62
AK 72/16 E4	kg m		8410 5.86	5520 8.23	3970 10.66	3060 13.16	2490 15.69

## OPTIONAL SOLUTIONS

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



AK 40 AK 48



AK 50



AK 55



AK 67



AK 61



AK 72



## QUALITY SOLUTIONS / QUALITY DETAILS

### MARINE DESIGN

Our cranes 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 components and each crane parts are 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 configurations: 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

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.



FOLDABLE KNUCKLE & TELESCOPIC



KNUCKLE & TELESCOPIC



KNUCKLE BOOM



TELESCOPIC BOOM



STIFF BOOM



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