

K4 crane

Meeting the toughest capacity demands and environmental conditions

Crane type

K4 electro-hydraulic four-rope grab cranes are self-contained units with all machinery enclosed in the crane housing. This protects them from weather, corrosion, dust and damage. The standard K4 range covers lifting capacities from 25 to 50 tonnes in grab operation, with outreaches of up to 36m.

To further improve outreach, cycle time and positioning performance, the crane can be installed on an eccentric platform.

Each crane is tested electrically, hydraulically and mechanically before delivery.

General design

K4 cranes are designed to meet the rules of all recognised classification societies.

The MacGregor control system ensures smooth, fast and stepless crane control. Hoisting, luffing and slewing motions are independent of each other. This means that at their maximum capacity, K4 cranes can operate at full speed using all three movements at the same time.

K4 crane design is calculated according to the latest FEM rules, 1.001.

Important crane criteria

- FEM-rules, 1.001
- High capacity, tonne/hours
- High speed
- Positioning performance
- Operator convenience
- Robust design



HOISTING CAPACITY:

25-50 tonnes in grab operation

27.5-52.5 tonnes in hook operation

JIB RADIUS:

20-36m

Heavy duty

For K4 heavy-duty units, where U7-A8-Q3 applies to the whole crane, this equates to:

- 1,800,000 hoisting cycles during the lifetime of the crane
- Up to 6,000 working hours/year
- Up to 20 years lifetime, depending on the number of hours worked per year.

Control system

- Excellent and optimised control
- Individual adjustment possibilities
- Enhanced monitoring capabilities
- Integrated diagnostic functions

Hydraulics

- Closed hydraulic system; all motions are available at the same time at full speed and load.
- Low power consumption
- Planetary gears and hydraulic motors with fail-safe brakes

Available extras

- Logging
- Camera on jib top
- Automatic greasing of slewing bearing
- Increased speeds for K50
- SeaState selector
- Active pendulation control
- Anti-collision system

Technical data

Specification	K 2526-4 'Standard'	K 3030-4 'Heavy Duty'	K5036-4 'Heavy Duty'
Hoisting capacity, SWL grab	25t	30t	50t
Hoisting capacity, SWL general cargo	27.5t	32.5t	52.5t
Hoisting speed, full load grab	45 m/min	50 m/min	50 m/min
Lowering speed, full load grab	45 m/min	55 m/min	55 m/min
Hoisting and lowering speed empty grab	45 m/min	75 m/min	75 m/min
Hoisting and lowering speed general cargo	30 m/min	30 m/min	30 m/min
Luffing time	50 sec	75 sec	75 sec
Slewing speed	0.9 r/min	1.2 r/min	0.9 r/min
Jib radius, min	4.1m	6m	7m
Jib radius, max	26m	30m	36m
Electric motor continuous	250kW	345kW	2x315kW
Starting current	1100A	1280A	1500A
Main power supply, AC	400V, 50Hz	440V, 60Hz	400V, 50Hz
Weight, total	55t	76t	150t

Data is based on a maximum of 5° list/2° trim, and crane speeds are independent of the main power supply. Other specifications, capacities and speeds are available upon request.

