

**Build the Future**

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ISO9001 ISO14001



A3 FEM 1.001

**EVERDIGM TOWER CRANE**

**KH310**



**Conquer the ground**

## High-performance, precise-control, very-reliable, energy-saving drive system

### ● Frequency-converter Hoist Drive system

- Most - reliable German made hoist drive system consists of ;
  - ✓ SIEMENS Electric Motor with dust & water protection rating IP55.
  - ✓ Durable SIEMENS gear unit.
  - ✓ Trouble - free SIEMENS Vector Frequency Converter.
- Hoist speed is being continually adjusted and optimized responding to the load actually being lifted.
- Smooth and step - less speed changes, micro speed controls from zero speed.



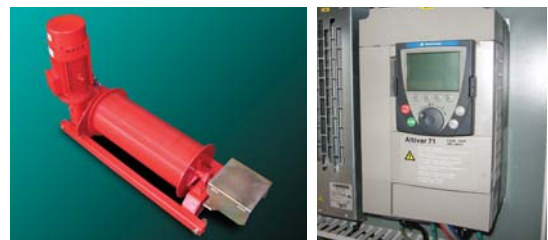
### ● Frequency-converter Slewing Drive system

- Powerful, and Jerk - Free slewing drive system consists of ;
  - ✓ 4 sets of SIEMENS Electric Motor with dust & water protection rating IP55 accompanied by most reliable gear unit.
  - ✓ Trouble - free SIEMENS Vector Frequency Converter.
- Jerk - free slewing at any speeds, continuously variable speed control by step - less controller.
- Enabling to place a jib at any desired position without sway.



### ● Frequency-converter Trolley Travel system

- Travelling with continuously variable speed control by step - less controller.
- Trouble - free France TELEMECANIQUE made frequency converter.
- Enabling to place a lifting hook at any desired position at micro speed.



### Durable Slewing Bearing

- High quality, France ROLLIX-made slewing bearing as standard.
- Ultra-hardened, precisely machined components such as bearings, run-way, and teeth guarantee a longer life.
- Four-point greasing ports as standard.
- Motorized greasing system as option.





## Electrical Rotary Joints - Slip Ring

Electric power is supplied through Slip Ring Connection; hence top-kit rotates unlimited degree. No twisting of power cable.

Slip ring eliminates any joint work of power cable while installing and dismantling



## Electronic Load Moment Limiter

Load moment is measured by a load cell and potentiometer, and transmitted to frequency converter to optimize the hoisting speed.

When a load limit is reached, a warning is signaled to the operator. An additional increment of load causes the hoist motor to stop.

Fine and easy setting by key-pad input system.



## Robust Tower Mast Sections for long life, easy connection, higher freestanding

- High tensile structural steel EN 10025 S355J2G3  
Tight-welded square-tube-shape posts and diagonal elements.
- High strength bolts having ISO tensile strength grade 12.9.
- Forged flange with 2 or 4 bolts at each corner post.
- Zero clearance joint.
- Dowel pin for rapid fit.
- Bolt holder for easy keeping.
- 2 different lengths (3-, 6-meter) provided for desirable height.



## Easy and fast 2/4-fall change done by 1 operator

- Mechanism of easy connecting or releasing intermediate hook block enables a rapid 2/4-fall change.
- Quickly done with very little effort by only 1 mechanic or operator.



## Fast, trouble-free and safety climbing

- Two hydraulic rams balanced by counter-balancing valve guarantees fast, trouble-free and safe climbing.
- Two climbing stages provides space for a 3-meter mast section.



## Ergonomic controls in comfortable and full-view cabin

- Full view of the lifting load and work site.
- Electronic monitoring system displaying all driving information at once.
- Noise-, dust-, rust-, heat-, and rain-insulated cabin
- Joystick lever controls with dead-man switch.
- Air-conditioning for heat and cool as standard.
- Full suspension seat with wide range of adjustment.
- FM/AM radio and cassette as standard
- Windshield wiper system.
- Hi-Lo adjustable sun-shade.
- 220Vac power socket inside cabin.



## Silent trolley travel with safety stopper

Durable MC Nylon wheels with self-lubrication provide smooth and noise-less travel.

A special designed stopper prevents trolley from free coasting even in case travel rope is cut.



## Anemometer and aircraft warning light as standard

Real-time wind speed measured by anemometer is displayed for operator in the cabin.

Air-craft warning LED light with solar sensor.



## Service Derrick for maintenance as standard

Assemble-on-site and swivel Service Derrick is equipped as standard.

It is useful when heavy-weight components such as motors, winch and drive gears are removed or reinstalled for maintenance.



## Protected Connectors inside stainless steel cage

All cable connectors to controller placed inside the stainless cage provide complete protection for electronic system from water and dust.



## Easy and quick assembly in total safety

### ● Minimized “assembly-in-the-air” :

Only five complete units pre-assembled on the ground or in the factory enables to lessen lifting work at job site.

- ① Slewing Platform Unit  
pre-assembled with slew table, cabin, control panels and panel frame.  
Panels and panel frame is transported as pre-assembled in the factory.
- ② Top Tower Unit  
pre-assembled with service platform, tackle assembly and counter-jib tie bars.
- ③ Climbing Cage Unit  
pre-assembled with service platform, hydraulic power pack and rams.
- ④ Counter Jib Unit  
pre-assembled with counter-jib tie bars and hoist winch drive unit.  
Hoist winch drive unit is transported as pre-assembled in the factory.
- ⑤ Front Jib Unit  
pre-assembled with trolley winch system, trolley and tie-bars.



### ● Self-alignment of counter-weight

Once each ballast block is just simply inserted in the compartment in sequence, then they are self-positioned and automatically aligned in place, thanks to special-designed compartment. Zero space and tight-contact between counter-weight blocks.



### ● Plug-in Connection

Plug-in connections to drive units and safety devices make job done easily and quickly.



### ● KH310 series

Model	Max Lift Load	Max Jib Length	Load at Jib end	Free-standing Height under hook	Max. Height under hook
KH310-12	12 ton	70 m	3.2 ton	60 m	234 m
KH310-12S	12 ton	70 m	3.2 ton	60 m	300 m
KH310-14	14 ton	75 m	2.2 ton	60 m	234 m

# EVERDIGM TOWER CRANE

# KH310

- Specifications contained in the catalogue may be changed without prior notice for improvement of quality and performance.

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