



# Tower Crane

TC Series



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 **ZOOMLION**

## Determining product criteria Pursuing perfect quality

In the year of 1996, Zoomlion Heavy Science & Technology designed a tower crane with a broad spectrum of applications, which is the result of nearly half a century of arduous work realized by several generations of Chinese intellectuals, and which was also the first time that the Chinese reached top-class level in the field of tower crane technology.

As the main producer of tower cranes the people from Zoomlion Tower Crane know that their product has a wide range of application but is not the standard followed by the factories in this industrial field, but complies with the actual market requirements where only quality is demanded.











## Safety & High efficiency

- Whatever you want, the Parameter Monitor System will tell you.
- Each action is within the permitted range.
- Hook multiplying power with automatic alteration, which is convenient and fast and combines low speed with heavy weight and high speed with light weight much better.
- Due to the quick-release fasteners of the slewing mast section you will save more time and work when you install and dismantle counter-jib and hoisting jib.



◀ Multifunction monitor

▼ Hook with automatic reeving



## Multi-selection can meet the different requirements

- Hoisting mechanism is divided into speed regulation by frequency control, speed regulation by a multi-pole winding motor (second series) with connecting resistance, and pole-changing speed regulation: speed regulation by frequency control shifts smoothly and the working stability is extremely high; for the speed regulation of the multi-pole winding motor with connecting resistance, the electric current for starting and braking and shifting is small and it works stably; pole-changing speed regulation is simple in structure and economic and practical.
- The trolley mechanism is divided into speed regulation by frequency control and pole-changing speed regulation: speed regulation by frequency control is stable and without shocks; the multi-speed motor is economic and practical.
- The slewing mechanism is divided into speed regulation by frequency control and a winding motor with connecting resistance speed regulation.
- The thick and short drum coils up the rope zigzag which has extremely improved the effect of ejecting rope and prolonged the life span of the wire rope.



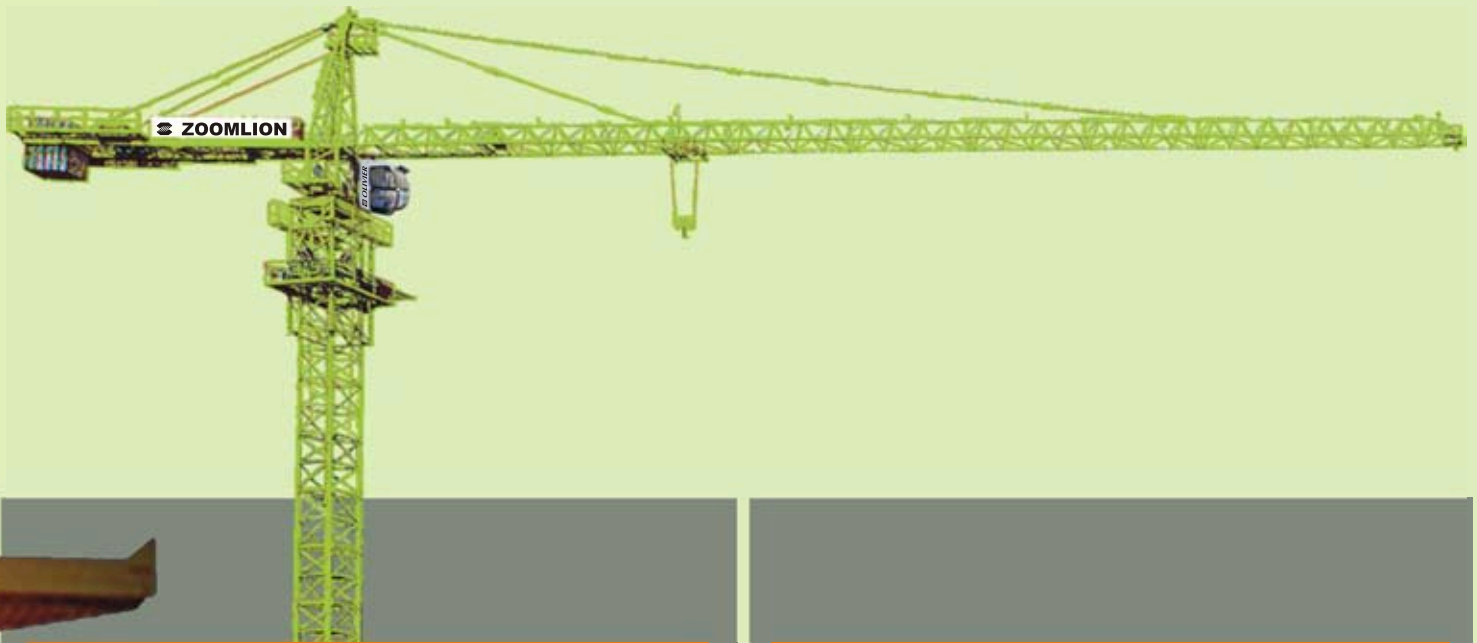
Trolley mechanism /hoisting mechanism/slewing mechanism





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## Beautiful and comfortable man-machine interaction

- The crane operator's cabin looks like a space capsule and offers an extraordinary vision that can also be shocking.
- The joint-action operation platform is designed ergonomically thus achieving better cooperation between man and machine.
- Due to the quick-release fasteners of the slewing mast, easy assembly of counter-jib and hoist jib.
- The square structure of the steel pipe is not only reasonable regarding the stress and convenient for maintenance, but also combines strength and beauty.



Cab



Slewing tower  
quick-release fastener

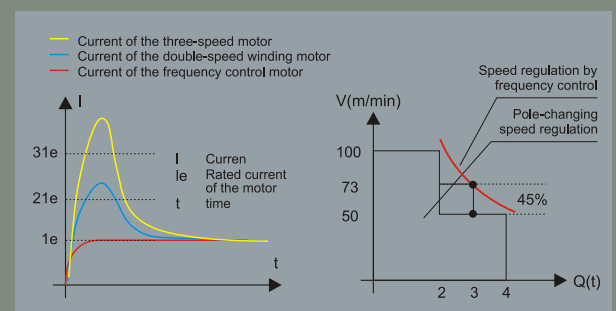


Square-shaped steel  
tube structure



## The control system

- A breakthrough of the traditional control style with fully adjustable speed regulation by frequency control of four big mechanisms.
- Starting and braking is extremely stable and the impact for the transmission components, structure elements and especially for grid structure, is small.
- Durable electric control cabinet.
- Simple and orderly arrangement of electric control cabinet.
- PLC has realized complete intelligent control and there are few intermediate control elements; it is more precise and coordinated and convenient for maintenance and much more reliable.
- Electric appliances are from the best brands worldwide.



Japanese PC control/The top brand of the world



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