THE KONECRANES C-SERIES CRANE

Modern durable lightweight lifting
Advanced, reliable, safe and easy

The new Konecranes C-series chain hoist crane brings general-purpose lifting in your everyday processes to a whole new level. Built with our Core of Lifting components, it combines our innovative girder and adaptive crane end truck design with the Konecranes C-series hoist, our most advanced electric chain hoist to date.

Reliability is assured in steady performance using components designed to last the whole lifecycle of your crane. Quiet and smooth operation with a light hook and ergonomic controls provides optimum operator comfort. The modular structure allows easy maintenance access.

The Konecranes C-series chain hoist crane is a modern, long-lasting and dependable lifting machine that gives you smooth and precise load handling up to 5 tons.

Technical highlights

SLIDING CONNECTION (as an option) improves overall crane lifetime by reducing mechanical stress

GIRDER DESIGN works together with compact hoist for optimal approach dimensions

ERGONOMIC PENDANT improves operator comfort and safety

PRECISION GEARS with lifetime lubrication for enhanced performance and low maintenance

OPERATING LIMIT SWITCH with protected internal design for enhanced durability

LIGHT HOOK with non-slip coating improves operator comfort and safety

NEW FLEXIBLE TROLLEY modular design and easily adjustable for a wide range of flange widths

HIGH-QUALITY MOTOR purpose-built for long-term reliable lifting in demanding conditions

SELF-ADJUSTING BRAKE designed for long life, reliability and low maintenance

SIMPLE BRACKET DESIGN for improved flexibility and faster installation

SLIPPING CLUTCH for outstanding reliability through reduced heat stress

TIGHT SPROCKET PAIRING reduces friction and wear with smoother chain flow

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Built with state-of-the-art crane technology

Each Konecranes C-series electric chain hoist crane uses the latest technical advances for a modern, durable lifting machine.

Fan cooling brings more power to the motor, allowing you longer continuous operation with a cycling duty factor up to 60% and 300 starts per hour.

Add to that a lifetime lubricated gearbox that improves reliability and raises your productivity with a wide range of lifting speeds and a slipping clutch that protects your operators from dangerous overload.

In addition, the self-adjusting brake will last more than one million operations. It always engages if you lose power.

The design of the chain guide with a tight chain and sprocket pairing gives you smooth chain flow and extends chain life.

You get all of this inside a sleek hoist combined with optimal main girder dimensioning for narrow hook approaches in limited working spaces.

Core of Lifting is our term for the gears, motors and controls and the way they work together. We have designed these in-house, specifically for the lifting motions of cranes.

Facts at glance

- Load range: 250 kg – 5000 kg
- HDL (meters):
  - hoists with 1 chain fall, 10 m
  - hoists with 2 chain falls, 15 m
- Hoisting speeds (m/min): 4/2, 8/2, 12/3, 16/4
- Ambient temperature range: -10˚C – +40˚C
- Environment: indoor use
- Hoists on the crane: 1 hoist on crane
- Crane type:
  - Top running single girder and under running cranes
- Crane structure:
  - Profile and box girders (with sliding connection as an option)
- Crane controls:
  - Stepless travelling movements
- Hoist controls:
  - 2-speed or stepless hoisting movements
- Hoist power supply:
  - Festoon or energy chain
- Max span:
  - Profile girder 19 meters and box girder 22 meters
- Voltages:
  - 380V – 415V/ 50Hz
  - 440V – 480V/ 60Hz
  - Control voltage 48V and 115V
- Crane controller type:
  - Movable pendant, connected to festoon
  - Optional radio controller

Comparison between C-series hoist and traditional wire rope hoist

Outer dimensions

- Crane load 2500 kg and height of lift 9 m
- Width of trolley + C-series hoist combination: 425 mm
- Width of wire rope hoist: 700 – 800 mm
Industrial applications

Each industry has its own unique lifting requirements. Some demand more precision, while others need smoother motion. A high duty cycle in a challenging environment is different to occasional lifts. Sometimes available working space is the deciding factor. With a wide range of features and options, the C-series crane suits many different industries in a compact and economical form.

Manufacturing and assembly
Assembly lines consist of several subsequent steps, each requiring its own lifting device. The product moves rapidly from one step to the next as it is put together. Good planning positions cranes carefully above each workstation, using space and time efficiently. Lightweight hooks allow easy manipulation. For example:

**Automotive**
The 4:1 speed ratio of dual speed hoists or stepless inverters allow fast and precise movement, important in delicate assembly work.

**Wood and saw mills**
Whether it’s small wood blocks or complete building elements, chain hoist cranes make operations easy and accurate with a wide capacity range.

**General manufacturing**
A C-series crane suits any basic lifting need, especially on production lines with limited space, where its compact size and narrow hook approaches make it ideal.

Processes
Process applications are different to assembly environments. When cranes are used frequently, durability is important. Resistance against humidity, dust and temperature might be necessary. When C-series cranes perform service operations, they are used less, but they need to be reliable and ready at a moment's notice. For example:

**Paper and forest**
Making paper can be both dusty and wet because of the wood fibers, water and additives used in the process. Heat dries the end product. Special features added to C-series cranes can handle such conditions easily.

**Waste-to-energy**
Such processes usually operate 24/7, so any planned or unplanned maintenance must be fast and highly efficient. Maintenance using C-series cranes rely on durable hoist components, always ready to perform when needed.

Comprehensive, systematic and world-class maintenance

An active preventive maintenance program is crucial to improving your safety and productivity. We can tailor a maintenance plan just for you based on your equipment, application and duty cycle. Designed for easy access to all key components, your C-series crane minimizes downtime, even during service.

Konecranes backs up your maintenance plan with our global service network and a complete range of spare parts available for your C-series electric chain hoist crane.
Konecranes is a world-leading group of Lifting Businesses™, serving a broad range of customers, including manufacturing and process industries, shipyards, ports and terminals. Konecranes provides productivity enhancing lifting solutions as well as services for lifting equipment of all makes. In 2019, Group sales totaled EUR 3.33 billion. Including MHE-Demag, the Group has around 18,000 employees in 50 countries. Konecranes shares are listed on the Nasdaq Helsinki (symbol: KCR).

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