

100 Tons Crane Hook - High-Quality Overhead & Gantry Crane Hook for Heavy- Duty Lifting

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Email: aiden@craneweihua.com



100 tons crane hook

As a critical component in heavy-duty lifting equipment, the 100 tons crane hook is engineered to deliver exceptional strength, reliability, and safety for handling massive loads up to 100 metric tons. Designed to seamlessly integrate with various crane systems, our 100 tons crane hook series includes two core variants: **100 tons overhead crane hook** and **100 tons gantry crane hook**, each tailored to meet the unique demands of different lifting environments. Whether for indoor factory operations or outdoor bulk material handling, our 100-ton crane hooks are manufactured in strict compliance with international safety standards, ensuring stable performance and long service life in the most challenging industrial scenarios.

100 Ton Crane Hook Parameter

Parameter	100 Tons Overhead Crane Hook	100 Tons Gantry Crane Hook
Rated Lifting Capacity	100 metric tons (excluding self-weight of hook and movable pulley block)	100 metric tons (excluding self-weight of hook and movable pulley block)
Material	Premium alloy steel (20MnSi / Q345qD), forged	Premium alloy steel (20MnSi / Q345qD), forged
Safety Factor	≥ 1.75 (complies with TSG 51-2023 for important hoisting mechanisms)	≥ 1.75 (complies with TSG 51-2023 for important hoisting mechanisms)
Non-Destructive Testing Standard	Ultrasonic testing quality grade \geq II (GB/T 37400.15—2019)	Ultrasonic testing quality grade \geq II (GB/T 37400.15—2019)
Anti-Drop Device	Heavy-duty safety latch with locking function	Heavy-duty safety latch with locking function
Surface Treatment	Spray painting (anti-rust, suitable for indoor environment)	Hot-dip galvanizing / Enhanced spray painting (strong corrosion resistance for outdoor environment)
Working Temperature Range	-20°C ~ 60°C	-30°C ~ 60°C (enhanced low-temp resistance)
Certification	ISO, CE, GB/T 10051 series	ISO, CE, GB/T 10051 series
Installation Interface	Standard interface, compatible with mainstream overhead crane hoisting mechanisms	Standard interface, compatible with mainstream gantry crane hoisting mechanism

Core Product Variants: 100 Tons Overhead Crane Hook & 100 Tons Gantry Crane Hook

1. 100 Tons Overhead Crane Hook

Specifically designed for [overhead crane](#) systems (bridge cranes) widely used in factories, workshops, and warehouses, the 100 tons overhead crane hook is optimized for indoor lifting operations. It features a compact yet robust structure that adapts to the limited vertical and horizontal space of indoor environments. The [crane hook](#) is precision-machined to ensure smooth collaboration with the overhead crane's trolley and hoisting mechanism, enabling precise positioning of heavy loads such as large machinery parts, steel coils, and mold tools. Our overhead crane hook comes with a reliable safety latch to prevent load disengagement during lifting, and its rotating design reduces lateral force on the hook body, minimizing wear and extending service life.

2. 100 Tons Gantry Crane Hook

Ideal for outdoor lifting applications, the 100 tons gantry crane hook is specially crafted for gantry crane systems used in ports, shipyards, construction sites, and open-air storage yards. Built to withstand harsh outdoor conditions such as wind, rain, and extreme temperatures, this hook variant boasts enhanced corrosion resistance and structural rigidity. The 100 tons gantry crane hook is designed to handle irregular and bulky heavy loads, including containers, ship hull sections, and large construction components. It is equipped with reinforced hook throat and shank to bear the high tensile forces during outdoor lifting, and the surface treatment (such as hot-dip galvanizing or spray painting) provides superior protection against rust and oxidation.

Key Features & Advantages

- **Exceptional Load-Bearing Capacity:** Rigorously tested to safely handle 100 tons of load, ensuring stable and secure lifting even under full load conditions.
- **High-Strength Material:** Manufactured from premium alloy steel (such as 20MnSi) through quenching and tempering processes, which significantly improves the hook's tensile strength, toughness, and wear resistance.
- **Safety-Centric Design:** Equipped with a heavy-duty safety latch to prevent accidental load slippage; the hook body undergoes non-destructive testing (NDT) such as ultrasonic and magnetic particle inspection to detect potential internal or surface defects.
- **Versatile Compatibility:** Both 100 tons overhead crane hook and [gantry crane hook](#) are designed with standard interfaces, making them easy to install and replace on most mainstream crane models.
- **Long Service Life:** Precision machining and advanced surface treatment techniques reduce friction and corrosion, extending the hook's service life and reducing maintenance costs.

Material & Manufacturing Process

The foundation of our 100 tons crane hook's reliability lies in the high-quality materials and strict manufacturing processes we adopt. We select 20MnSi alloy steel, a material widely recognized in the lifting industry for its excellent comprehensive mechanical properties. The manufacturing process includes: 1) Raw material inspection to ensure no impurities or defects; 2) Forging to shape the hook blank, enhancing the material's density and strength; 3) Quenching and tempering heat treatment to optimize the hook's hardness and toughness; 4) Precision machining to ensure dimensional accuracy and smooth surface; 5) Non-destructive testing to eliminate potential safety hazards; 6) Surface treatment (galvanizing/painting) to improve corrosion resistance.

Application Scenarios

Our 100 tons crane hook series is widely used in various heavy-industry fields that require large-load lifting:

- Steel mills: Lifting steel coils, steel ingots, and large steel structures.
- Ports & shipyards: Handling containers, ship blocks, and marine equipment.
- Construction sites: Hoisting precast concrete components, large machinery, and steel frames.
- Mining industry: Lifting ore, mining equipment, and transport vehicles.
- Heavy machinery manufacturing: Assembling and moving large machine parts and molds.

Quality Assurance & Certification

We adhere to strict quality control standards throughout the production process of the 100 tons crane hook. All products are certified by international authorities such as ISO, CE, and GB (Chinese National Standard for Lifting Equipment). Each hook undergoes rigorous load testing, fatigue testing, and non-destructive testing before leaving the factory to ensure it meets the highest safety and performance requirements. We also provide comprehensive after-sales service, including installation guidance, maintenance advice, and replacement parts supply, to ensure the long-term stable operation of your lifting equipment.

Contact Us

If you are looking for a reliable 100 tons overhead crane hook, 100 tons gantry crane hook, or customized 100 tons crane hook solutions, please feel free to contact us. Our professional team will provide you with detailed product specifications, quotation, and technical support to meet your specific lifting needs.

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