

70 Tons Overhead Crane

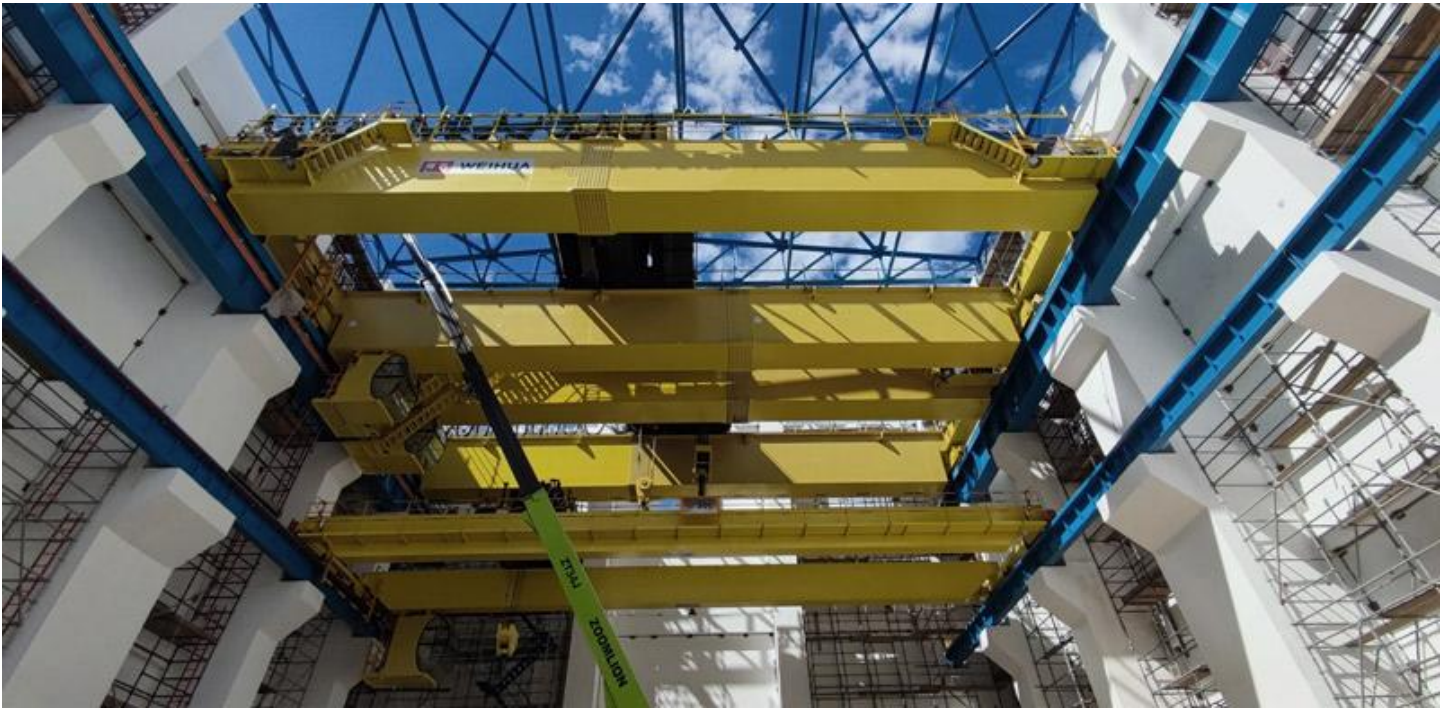
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70 tons overhead crane

As a professional heavy-duty material handling equipment, the 70 Tons Overhead Crane is engineered to meet the rigorous demands of large-scale industrial lifting operations. Designed with advanced technology and robust structural design, this [overhead crane](#) delivers exceptional load-bearing capacity, precise control, and reliable performance, making it an indispensable asset in industries requiring efficient and safe handling of ultra-heavy loads.

70 Tons Overhead Crane Core Features & Advantages



70 tons overhead crane

- **Superior Load-Bearing Capacity:** Rated lifting capacity of 70 tons, with a reinforced main beam and high-strength steel structure that undergoes strict quality testing (including non-destructive testing) to ensure stable operation under full-load conditions. The optimized beam design effectively distributes load stress, reducing deformation and extending service life.
- **Precise & Efficient Control System:** Equipped with a variable frequency drive (VFD) system that enables smooth acceleration and deceleration, minimizing load sway and ensuring precise positioning of heavy loads. The control mode supports both cabin operation and remote control, allowing operators to choose the most convenient way based on on-site conditions, improving operation efficiency and safety.
- **Comprehensive Safety Protection:** Integrated with multiple safety devices, including overload protection, upper/lower limit switches, emergency stop button, anti-collision device, and voltage protection. These devices form a multi-layered safety barrier to prevent accidents caused by operational errors or equipment malfunctions, safeguarding personnel and on-site assets.
- **Durable & Low-Maintenance Design:** Key components (such as motors, reducers, and hooks) are sourced from well-known brands, ensuring high reliability and wear resistance. The sealed design of the transmission system prevents dust and debris from entering, reducing maintenance frequency and operational costs. Additionally, the crane is designed with easy access to components for convenient inspection and maintenance.

- **Customizable Configuration:** Based on the specific needs of different industries and working environments, we offer customizable options for span (10m-30m), lifting height (12m-24m), and auxiliary devices (such as grabs, electromagnetic suckers). This flexibility ensures the crane perfectly adapts to various operational scenarios.

70 Tons Overhead Crane Technical Parameters

Parameter	Specification
Rated Lifting Capacity	70 Tons
Span	10m - 30m (Customizable)
Lifting Height	12m - 24m (Customizable)
Lifting Speed	0.5 - 5 m/min (Variable Frequency Adjustable)
Trolley Travel Speed	5 - 20 m/min
Crane Travel Speed	10 - 30 m/min
Power Supply	380V/50Hz/3Ph (Customizable for Different Countries)
Working Class	A5 - A7 (Suitable for Heavy-Duty Continuous Operation)
Overall Weight	Depends on Span & Lifting Height (Consult for Detailed Quotation)

Structural Composition of 70 Tons Double Girder Overhead Crane

- **Main Girders:** As the core load-bearing structure, the double main girders are made of high-strength Q355B steel, welded with advanced submerged arc welding technology. The box-type cross-section design enhances rigidity and load-bearing capacity, ensuring stable operation under heavy loads. Each main girder undergoes strict stress relief treatment to eliminate welding residual stress and prevent deformation.
- **End Girders:** Connected to both ends of the main girders, the end girders are responsible for supporting the entire crane and connecting the traveling mechanism. They are designed with a rigid structure to ensure the overall stability of the crane during horizontal movement. The connection between end girders and main girders adopts high-strength bolts for reliable fixation.

- **Trolley Assembly:** Composed of trolley frame, lifting mechanism, and trolley traveling mechanism. The lifting mechanism includes hoist, wire rope, [crane hook](#), and pulley block, which realizes the lifting and lowering of heavy loads. The trolley traveling mechanism drives the trolley to move along the track on the main girders, enabling lateral positioning of loads.
- **Crane Traveling Mechanism:** Installed on the end girders, it consists of motors, reducers, wheels, and brakes. This mechanism drives the entire crane to move along the ground track, realizing long-distance transportation of loads. The adoption of frequency conversion speed regulation ensures smooth start and stop, reducing impact on the track and structure.
- **Electrical Control System:** Includes control cabinet, operation console (cabin or remote control), frequency converter, contactors, and sensors. It is the "brain" of the crane, responsible for controlling the operation of each mechanism, realizing functions such as lifting, lowering, trolley traveling, and crane traveling. At the same time, it is integrated with safety protection devices to ensure safe and reliable operation.
- **Safety Devices:** In addition to the safety protection components integrated in the electrical system, the structural safety devices also include rail clamps (to prevent crane sliding during power failure), buffer devices (to absorb impact energy during collision), and anti-derailment devices (to ensure the wheels run stably on the track).

70 Tons Overhead Crane Application Scenarios

The 70 Tons Overhead Crane is widely used in heavy industry fields that require handling of large and heavy workpieces. Typical application scenarios include:

- **Steel Mills:** Lifting steel ingots, steel plates, and finished steel products during smelting and processing.
- **Shipyards:** Hoisting ship sections, engines, and other large marine components during shipbuilding and maintenance.
- **Port & Wharf:** Loading and unloading heavy cargo, containers, and large mechanical equipment from ships and trucks.
- **Heavy Machinery Factories:** Assembling large industrial machinery (such as excavators, bulldozers) and lifting castings and forgings.
- **Power Plants & Hydropower Stations:** Installing and maintaining large generators, turbines, and other power equipment.

Quality Assurance & After-Sales Service

We adhere to strict quality control standards throughout the production process, from raw material selection to final product testing. Our 70 Tons Overhead Crane has passed ISO 9001

quality management system certification and relevant international safety certifications (such as CE), ensuring compliance with global industry standards.

To provide customers with worry-free use, we offer comprehensive after-sales services, including:

- Professional on-site installation and commissioning by experienced technicians.
- Operator training to ensure safe and proper use of the equipment.
- Regular maintenance and inspection services to extend equipment life.
- 24/7 after-sales support and timely supply of spare parts.

If you are looking for a reliable 70-ton heavy-duty lifting solution, please contact us for a customized quotation and detailed technical proposal. We are committed to providing you with high-quality products and professional services tailored to your specific needs.

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