

90 Tons Overhead Crane

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90 tons double girder overhead crane

As a core equipment in heavy industrial lifting operations, the 90 tons overhead crane is engineered to deliver stable, efficient, and safe performance for handling ultra-heavy loads. Designed with rigorous industrial standards and innovative structural optimization, this crane is widely applicable in sectors that demand high-load lifting, providing reliable support for production lines, infrastructure projects, and precision operations.

Core Structural & Performance Advantages

Robust Structural Design for Heavy Loads

The main beam and end beams of the 90 tons overhead crane are fabricated from high-strength alloy steel, undergoing precision welding and heat treatment processes to eliminate internal stress. This ensures exceptional structural rigidity and load-bearing capacity, enabling the crane to withstand long-term operation under 90 tons of rated load without deformation.

The optimized beam cross-section design balances weight and strength, reducing energy consumption during operation while enhancing overall stability.

Efficient & Precise Lifting System

Equipped with a high-power variable-frequency (VF) hoisting mechanism, the crane achieves smooth and stepless speed regulation for lifting and lowering. The VF technology not only minimizes load sway during operation but also reduces mechanical impact, protecting both the crane itself and the lifted cargo. The hoisting motor adopts a high-torque design, ensuring quick response even under full load, with a lifting speed range that can be adjusted according to operational needs—from slow precision positioning to efficient rapid lifting.

Stable Traveling Mechanism

The traveling mechanism features dual-drive motors with synchronous control, ensuring the crane runs stably along the track without deviation. The heavy-duty wheels are made of wear-resistant alloy materials, matched with high-precision bearings to reduce friction and extend service life. Both the trolley travel and crane travel are equipped with braking systems that offer reliable stopping performance, even in emergency situations, preventing accidents caused by inertia.

90 Tons Overhead Crane Technical Specifications

Parameter	Details
Rated Load	90 Tons
Span Range	10m - 30m (Customizable)
Lifting Height	8m - 20m (Customizable)
Lifting Speed (Full Load)	0.5m/min - 5m/min (Stepless Adjustment)
Crane Travel Speed	5m/min - 30m/min
Power Supply	380V/50Hz/3Phase (Region-Specific Customization Available)
Control Mode	Dual Mode: Wireless Remote Control + Cabin Control

90 Tons Overhead Crane Application Fields



90 tons overhead crane

The 90 tons overhead crane is tailored for heavy-industry scenarios that require high-load handling, including:

- **Steel Mills:** Lifting steel ingots, coils, and finished steel products during smelting and processing.
- **Shipyards:** Handling hull sections, engines, and large marine components during shipbuilding and maintenance.
- **Heavy Machinery Factories:** Assembling large equipment parts, such as hydraulic presses, generators, and construction machinery.
- **Port & Wharf:** Unloading and loading heavy cargo from ships, including containers, machinery, and bulk materials.
- **Infrastructure Projects:** Lifting precast concrete components, steel structures, and heavy construction equipment for bridge, tunnel, and power plant construction.

Comprehensive Safety Protection

Safety is the top priority in the design of this 90 tons overhead crane. It is equipped with multiple safety protection systems to ensure operational safety:

- Overload Protection: Automatically cuts off power when the load exceeds the rated capacity, preventing structural damage.

- Limit Protection: Lifting height and travel limit switches stop the mechanism when reaching the maximum range, avoiding collisions.
- Anti-Sway Device: Reduces load swing during lifting and traveling, ensuring precise positioning and preventing cargo damage.
- Emergency Stop System: Independent emergency stop buttons on both the remote control and cabin, enabling immediate shutdown in case of emergencies.
- Fault Alarm System: Real-time monitors the crane's operating status, issuing audible and visual alarms for faults such as motor overheating and voltage instability.

Price Of 90 Tons Overhead Crane

The price of a 90 tons overhead crane is influenced by multiple key factors, as it is a heavy-duty equipment that requires high customization and strict quality control, with no fixed quotation. These factors are closely linked to the equipment's performance, configuration, and supporting services, and also vary according to actual application needs.

First, customization of core parameters is a primary factor. Deviations from standard span, lifting height, or beam structure—such as extending the span to adapt to large workshops or increasing lifting height for high-rise operations—will increase material consumption (e.g., high-strength alloy steel) and manufacturing difficulty, thereby affecting the cost. Special structural designs for extreme working conditions, such as anti-corrosion treatment for chemical environments or high-temperature resistance for steel mills, also add to the overall price.

Second, the quality and configuration of core components play a decisive role. The selection of key parts, such as variable-frequency hoisting motors, synchronous drive systems, high-precision bearings, and intelligent control modules, varies in cost based on brand and technical level. Advanced configurations like automatic anti-sway systems, remote monitoring devices, and enhanced safety protection kits will raise the price due to their higher technical content and reliability.

In addition, supporting services and transportation costs contribute to the final price. Long-distance transportation of large structural parts requires special vehicles and hoisting equipment, with costs varying by distance and on-site accessibility. Professional supporting services, including on-site survey, customized design, installation, commissioning, and operator training, also account for a certain proportion of the total cost.

Finally, compliance certification and after-sales commitments impact pricing. Meeting regional industrial safety standards and obtaining relevant certifications involves additional testing and certification costs. Meanwhile, extended warranty periods, spare parts reserve services, and on-site maintenance guarantees will also adjust the quotation based on the depth of service provided.

Customization & After-Sales Service

We offer customized solutions based on your specific operational needs, including span, lifting height, control mode, and special environmental adaptations (such as high-temperature, corrosive, or dusty environments). Our professional team provides one-stop services, from on-site survey and design to installation, commissioning, and operator training.

In addition, we provide a comprehensive after-sales service system, including regular maintenance, spare parts supply, and technical support. Our goal is to ensure that your 90 tons overhead crane maintains optimal performance throughout its service life, maximizing your operational efficiency and reducing downtime.

With its robust structure, efficient performance, and reliable safety protection, the 90 tons overhead crane is your ideal partner for heavy-duty lifting operations, helping you achieve higher productivity and operational safety.

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