

Double Trolley Overhead Crane - High-Efficiency Lifting Solution for Heavy-Duty Applications

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Double Trolley Overhead Crane

As a professional heavy-duty lifting equipment, the double trolley overhead crane (also known as double trolley bridge crane) is engineered to meet the complex and high-demand lifting requirements of various industrial scenarios. Equipped with two independent or collaborative trolleys, this industrial double trolley overhead crane significantly enhances operational flexibility, efficiency, and precision, making it an indispensable core equipment in large-scale factories, ports, warehouses, and infrastructure construction sites. Whether it is for synchronous

lifting of oversized workpieces, separate handling of multiple loads, or coordinated operations in limited space, our high performance double trolley overhead crane delivers reliable and high-performance lifting solutions.

Core Features & Advantages of Heavy Duty Double Trolley Overhead Crane



Double Trolley Overhead Crane

- **Dual Trolley Collaborative/Independent Operation:** The double trolley overhead crane is equipped with two independently controlled trolleys that can operate separately or synchronously. Independent operation enables simultaneous handling of two different loads at different positions, improving work efficiency; synchronous operation allows for stable lifting of extra-long, extra-heavy, or irregular workpieces (such as large steel beams, ship segments, and heavy machinery components), ensuring balanced force and preventing workpiece deformation. This unique design is what distinguishes the double trolley overhead crane from single trolley models.

- **High Load-Bearing Capacity & Stable Structure:** Adopting high-strength steel for the main beam and trolley frame, the crane undergoes strict structural optimization and load-bearing tests. The box-type main beam design enhances rigidity and reduces deflection, ensuring stable operation even under full-load conditions. The load-bearing capacity ranges from 10 tons overhead crane to 1200 tons overhead crane, and can be customized according to specific industrial needs.
- **Precision Positioning & Smooth Operation:** Equipped with advanced frequency conversion speed regulation system and high-precision guiding mechanism, the crane realizes stepless speed regulation of trolley and bridge operation. This not only ensures smooth start-up, braking, and movement, but also achieves precise positioning of loads (positioning accuracy up to $\pm 5\text{mm}$), which is suitable for high-precision assembly, processing, and hoisting scenarios.
- **Comprehensive Safety Protection System:** The crane is configured with multiple safety protection devices, including overload protection, overtravel limit, emergency stop, voltage loss protection, and anti-collision devices (between trolleys and between crane and workshop walls). The electrical system adopts waterproof, dustproof, and anti-interference designs, ensuring safe and reliable operation in harsh industrial environments. All safety performance indicators comply with international standards such as ISO and FEM.
- **Energy-Saving & Easy Maintenance:** The optimized transmission system and high-efficiency motor reduce energy consumption by 15-20% compared to traditional cranes. The key components (such as motors, reducers, and brakes) adopt well-known brand products, with standardized interfaces and easy access for maintenance. The crane is also equipped with a fault diagnosis system that can timely alarm and display fault information, reducing maintenance time and costs.

Technical Parameters of Custom Double Trolley Overhead Crane

| Parameter Item | Specification Range |
|---|--|
| Total Rated Lifting Capacity (dual trolley synchronous operation) | 10t - 1200t |
| Span | 10m - 50m (customizable for larger spans) |
| Lifting Height | 6m - 40m (customizable) |
| Lifting Speed | 0.5m/min - 10m/min (frequency conversion adjustable) |
| Trolley Travel Speed | 5m/min - 30m/min (frequency conversion adjustable) |
| Bridge Travel Speed | 10m/min - 45m/min (frequency conversion adjustable) |
| | |

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|--------------|---|
| Work Class | A5 - A8 (suitable for light, medium, and heavy-duty continuous op |
| Power Supply | 380V/50Hz (customizable for other voltage standards) |

Application Scenarios of Industrial Double Trolley Overhead Crane

The double trolley overhead crane is widely used in various industries that require heavy-duty and high-precision lifting operations. Different types of double trolley overhead crane, such as explosion-proof double trolley overhead crane and foundry double trolley overhead crane, can be customized according to industry characteristics, including:

- **Steel Industry:** Lifting and transporting steel ingots, steel coils, steel plates, and molten steel ladles in steelmaking workshops, rolling mills, and steel warehouses.
- **Shipbuilding Industry:** Hoisting and assembling ship segments, engines, propellers, and other large components; moving materials in shipyards and dockyards.
- **Heavy Machinery Manufacturing:** Handling large machine tools, castings, forgings, and assembled equipment; assisting in precision assembly processes.
- **Port & Logistics:** Loading and unloading containers, bulk cargo, and large cargo in ports, terminals, and logistics centers; optimizing cargo handling efficiency.
- **Infrastructure Construction:** Lifting bridge beams, prefabricated components, and construction machinery in bridge construction, tunnel engineering, and power plant construction sites.
- **Mining Industry:** Handling large mining equipment, ore bins, and conveying components in mines and mineral processing plants.

Our Commitment & Service for Double Trolley Overhead Crane

We adhere to the principle of "quality first, customer-oriented" and provide customers with comprehensive services including customized design, manufacturing, installation, commissioning, and after-sales maintenance for double trolley overhead crane. Our double trolley overhead cranes are manufactured in strict accordance with international and national standards, and each product undergoes rigorous quality inspection before leaving the factory to ensure reliable performance and safe operation of the heavy duty double trolley overhead crane.

After-sales service includes: 24/7 technical support, on-site maintenance and repair, regular equipment inspection and maintenance, and training for operators and maintenance personnel. We also provide spare parts supply services to ensure the long-term stable operation of your equipment.

Contact Us for Double Trolley Overhead Crane Solutions

If you have any needs for double trolley overhead crane, such as customized specifications of high precision double trolley overhead crane, technical consultation on double trolley bridge crane, or quotation inquiry for industrial double trolley overhead crane, please feel free to contact us. Our professional team will provide you with tailored lifting solutions and high-quality services.

（注：文档部分内容可能由 AI 生成）