

50 Tons Overhead Crane - High-Performance Heavy-Duty Lifting Solution

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50 tons double girder overhead crane

The 50 tons overhead crane is a heavy-duty lifting equipment designed for handling large and heavy loads in industrial environments. Engineered with advanced technology and robust construction, this industrial 50t overhead crane delivers exceptional stability, precision, and efficiency, making it an indispensable asset in sectors that require reliable heavy lifting operations. Whether for manufacturing, metallurgy, logistics, or construction, this crane is tailored to meet the rigorous demands of high-capacity lifting tasks.

50 Tons Single Girder Overhead Crane

The 50 tons single girder overhead crane is characterized by a single main beam structure, which makes it more compact and lightweight. It occupies less headroom and requires a smaller installation space, making it cost-effective for medium-duty operations. This type is suitable for workshops with limited space, such as small-scale manufacturing facilities or warehouses, where it efficiently handles 50-ton loads with reliable performance.

50 Tons Double Girder Overhead Crane

The 50 tons double girder overhead crane features two parallel main beams, providing higher stability and load-bearing capacity. It is designed for heavy-duty, high-frequency operations and can be equipped with additional attachments like grab buckets or magnets for versatile use. Ideal for harsh environments such as metallurgical plants, ports, and large machinery manufacturing workshops, it ensures safe and efficient lifting of 50-ton heavy loads.

Core Features & Advantages of 50 Ton Heavy Duty Overhead Crane

- **High-Strength Structural Design:** The crane's main beam and end carriages are fabricated from high-quality Q355B steel, processed through finite element analysis (FEA) to ensure optimal load distribution. The welded structure undergoes strict nondestructive testing (NDT) to eliminate internal defects, providing a maximum lifting capacity of 50 tons as a high capacity overhead crane and excellent resistance to fatigue and deformation.
- **Precision Lifting Control:** Equipped with a variable frequency drive (VFD) system for both lifting and traveling motions, the crane enables smooth speed adjustment, reducing load sway and ensuring precise positioning. The hoisting mechanism adopts a high-efficiency gearbox and a heavy-duty wire rope (with a safety factor of 6:1) to guarantee stable lifting and lowering operations, even at full load.
- **Enhanced Safety Protection:** Multiple safety devices are integrated to prevent accidents, including overload protection (load cell + alarm), limit switches for lifting height and traveling distance, emergency stop buttons (both on the crane and the remote control), and anti-collision devices (optional for multi-crane systems). These features comply with international safety standards such as ISO and CE.
- **Low Maintenance & Long Service Life:** All key components (such as motors, reducers, and brakes) are sourced from renowned brands (e.g., Siemens, ABB, or Schneider) to ensure reliability. The crane is designed with sealed bearings and dust-proof covers to minimize wear from dust and debris, reducing maintenance frequency and extending the service life to over 15 years under normal operation.

- **User-Friendly Operation:** The crane can be operated via a pendant control station (with IP65 protection) or a wireless remote control (with a control range of up to 100 meters). The control panel features clear indicators and intuitive buttons, allowing operators to master the operation quickly. Additionally, the crane’s electrical system is equipped with waterproof and anti-interference design for stable performance in harsh environments.

Technical Specifications of 50 Ton Bridge Crane

Parameter	Specification
Rated Lifting Capacity	50 Tons
Span (Distance Between Rails)	10 - 30 Meters (Customizable)
Lifting Height	6 - 20 Meters (Customizable)
Lifting Speed	0.8 - 8 M/min (Variable Frequency)
Traveling Speed (Crane/Trolley)	10 - 30 M/min / 5 - 15 M/min
Working Class	A5 - A7 (According to ISO 4301)
Power Supply	380V / 50Hz / 3Ph (Customizable for Different Regions)
Control Mode	Pendant Control + Wireless Remote Control

Application Fields of 50 Ton Overhead Crane for Sale

The 50 tons overhead crane is widely used in various heavy industries due to its strong lifting capacity and reliable performance. Typical application scenarios include:

- **Metallurgical Industry:** Lifting molten steel ladles, steel ingots, and heavy rolling mill equipment with the 50 ton overhead crane in steel plants.
- **Heavy Machinery Manufacturing:** Assembling large machinery parts (e.g., engine blocks, turbine housings) and moving finished products.
- **Port & Logistics:** Loading and unloading heavy containers, generators, and large cargo from ships or trucks.
- **Construction & Infrastructure:** Hoisting prefabricated concrete components, steel beams, and construction machinery at large construction sites.
- **Mining & Energy:** Handling mining equipment, coal blocks, and large transformers in mines and power plants.

Safety & Compliance of Industrial 50 Ton Overhead Crane

All 50 tons overhead cranes are manufactured in accordance with international standards such as ISO 9001 (Quality Management System), CE (European Conformity), and OSHA (Occupational Safety and Health Administration). Each crane undergoes rigorous factory testing (including static load test, dynamic load test, and safety device test) before delivery to ensure it meets the highest safety and performance requirements.

After-Sales Service for 50 Tons Heavy Duty Overhead Crane

We provide comprehensive after-sales support to ensure the smooth operation of your 50 tons overhead crane, a trusted 50t bridge crane solution:

- Professional on-site installation and commissioning by certified engineers.
- Free operator and maintenance personnel training.
- 24/7 technical support hotline for emergency issues.
- Regular maintenance and inspection services (annual or semi-annual).
- Guarantee of 12 months for the whole crane and 24 months for key components.

If you are looking for a high-quality, reliable 50 tons overhead crane for your heavy-duty lifting needs, please contact us today. Our team of experts will provide you with a customized solution based on your specific requirements (such as span, lifting height, and working environment) and offer competitive pricing and prompt delivery.

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