

70 Tons Automated Bridge Cranes - High-Efficiency Material Handling Solution

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70 Tons Automated Bridge Cranes

In the realm of heavy-duty material handling, 70 tons automated bridge cranes stand out as a revolutionary solution, combining robust lifting capacity with advanced automation technology. Designed to meet the demanding needs of industries such as manufacturing, logistics, and construction, these cranes redefine efficiency, safety, and precision in material movement. Whether you're handling large machinery components, steel structures, or bulk materials, 70 tons automated bridge cranes deliver reliable performance that optimizes your operational workflow.

Key Features of 70 Tons Automated Bridge Cranes

- **Advanced Automation System:** 70 tons automated bridge cranes are equipped with state-of-the-art PLC (Programmable Logic Controller) and HMI (Human-Machine Interface) systems. This allows for fully automated operation, including scheduled lifting tasks, precise positioning, and automatic obstacle avoidance. The automation reduces human intervention, minimizing the risk of human error and improving overall operational efficiency.
- **Superior Lifting Capacity & Stability:** With a maximum lifting capacity of 70 tons, these bridge cranes are engineered to handle heavy loads with exceptional stability. The main beam and end carriages are made of high-quality Q355B steel, which undergoes strict quality control to ensure high strength and durability. The advanced lifting mechanism, including high-torque motors and precision gearboxes, provides smooth and steady lifting and lowering operations.
- **Comprehensive Safety Protection:** Safety is a top priority for 70 tons automated bridge cranes. They are equipped with multiple safety devices, such as overload protection, limit switches (lifting height limit, trolley travel limit, crane travel limit), emergency stop buttons, and anti-collision systems. These safety features work together to prevent accidents and protect both the equipment and the operators.
- **Energy-Efficient Performance:** Adopting energy-saving technologies such as variable frequency drives (VFD) for hoisting, trolley, and crane travel mechanisms, 70 tons automated bridge cranes significantly reduce energy consumption compared to traditional cranes. The VFD also enables smooth speed regulation, reducing mechanical wear and extending the service life of the crane components.
- **Remote Monitoring & Maintenance:** Many 70 tons automated bridge cranes come with remote monitoring systems that allow real-time tracking of the crane's operating status, including load weight, operating temperature, and fault information. This facilitates predictive maintenance, enabling maintenance personnel to identify and resolve potential issues before they lead to equipment downtime.

Technical Specifications of 70 Tons Automated Bridge Cranes

Parameter	Specification
Lifting Capacity	70 tons (main hook), 20 tons (auxiliary hook optional)
Span	10 - 30 meters (customizable)
Lifting Height	12 - 30 meters (customizable)
Hoisting Speed	0.8 - 8 m/min (variable frequency adjustable)
Trolley Travel Speed	2 - 20 m/min (variable frequency adjustable)

Crane Travel Speed	5 - 30 m/min (variable frequency adjustable)
Power Supply	380V/50Hz/3Ph (customizable for different regions)
Control Mode	Fully automated, semi-automated, remote control

Applications of 70 Tons Automated Bridge Cranes

70 tons automated bridge cranes are widely used in various industries due to their powerful performance and flexible operation. Some of the key application areas include:

- Heavy Machinery Manufacturing:** Used for lifting and assembling large machine parts, such as engine blocks, turbine casings, and press machines.
- Steel Industry:** Handling steel ingots, coils, plates, and structural steel in steel mills and steel processing plants.
- Logistics and Warehousing:** Loading and unloading heavy cargo containers, large pallets, and bulk materials in ports, railway yards, and large warehouses.
- Construction Industry:** Lifting construction materials such as concrete beams, steel trusses, and heavy equipment on large construction sites.
- Power Generation:** Installing and maintaining large power generation equipment, such as generators, boilers, and turbines in power plants.

Why Choose Our 70 Tons Automated Bridge Cranes?

Our 70 tons automated bridge cranes are designed and manufactured in compliance with international standards (such as ISO, FEM, and CE), ensuring high quality and reliability. We offer customized solutions tailored to your specific operational needs, including span, lifting height, control mode, and additional safety features. With a professional R&D team, strict quality control process, and efficient after-sales service, we are committed to providing you with the best material handling solution that enhances your productivity and reduces operational costs.

Contact Us for 70 Tons Automated Bridge Cranes

If you're interested in our 70 tons automated bridge cranes or want to learn more about how they can benefit your business, please feel free to contact us. Our sales team will provide you with detailed product information, a customized quotation, and professional technical support. Let's work together to optimize your material handling operations!

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