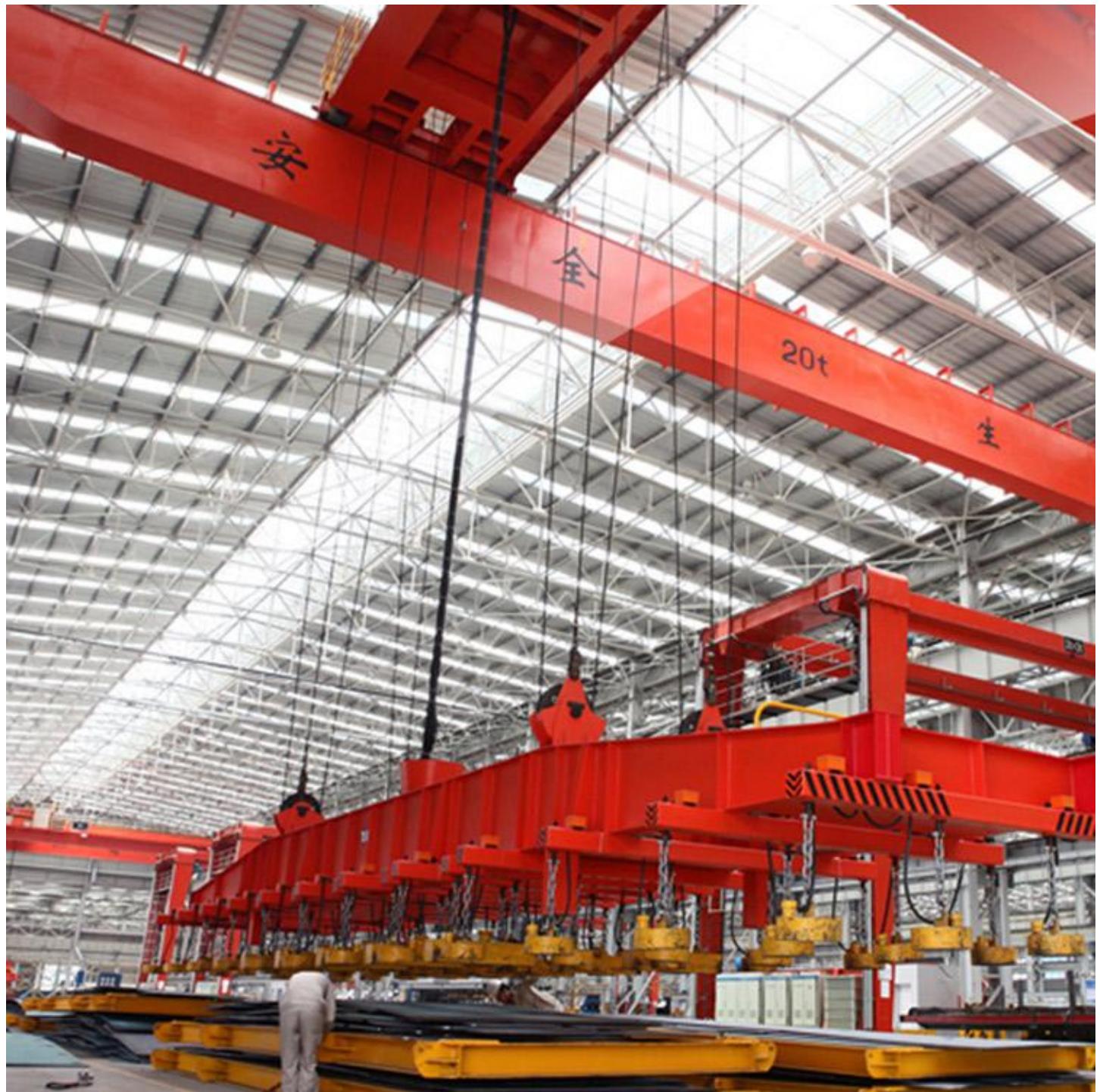


Steel Scrap Electromagnetic Overhead Crane

Original link: <https://www.globalweihua.com/products/overhead-crane/steel-scrap-electromagnetic-overhead-crane/>

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Steel Scrap Electromagnetic Overhead Crane

As a core equipment in the metal recycling and steel production industries, the Steel Scrap Electromagnetic Overhead Crane is specifically engineered to address the efficient, safe, and precise handling of steel scrap, iron filings, and other ferromagnetic materials. Combining advanced electromagnetic adsorption technology with a stable overhead crane structure, this product redefines the efficiency of material handling operations, significantly reducing labor intensity and optimizing production workflows.

Types of Electromagnetic Overhead Cranes



electromagnetic overhead crane disk

- **General-Purpose Electromagnetic Overhead Crane:** The most widely used type, suitable for general workshops, warehouses, and metal recycling yards to handle common steel scrap, iron blocks, and other ferromagnetic materials. It features a simple structure, easy operation, and adaptable to most conventional material handling scenarios.
- **Explosion-Proof Electromagnetic Overhead Crane:** Specifically designed for flammable and explosive environments such as chemical plants and oil refineries where metal scrap handling is required. It adopts explosion-proof electrical components and sealed structures to prevent sparks and ensure safe operation in hazardous areas.
- **Insulated Electromagnetic Overhead Crane:** Equipped with insulated lifting mechanisms and electromagnetic chucks, it is mainly used in power stations, electrical equipment manufacturing workshops, and other occasions that require electrical insulation. It can avoid electric conduction during material handling, protecting equipment and personnel from electric shock hazards.
- **Metallurgical-Specific Electromagnetic Overhead Crane:** Tailored for high-temperature environments in steel mills, such as near blast furnaces and converters. It has high-temperature resistance components and a heat insulation design, capable of handling high-temperature steel scrap, steel billets, and other materials, with strong adaptability to harsh high-temperature working conditions.
- **Double-Girder Electromagnetic Overhead Crane:** With a double-girder structure, it has higher load-bearing capacity (usually above 50t) and larger span. It is suitable for large-scale steel mills, heavy machinery manufacturing plants, and other occasions that need to handle large-volume and heavy-weight steel scrap.

Steel Scrap Electromagnetic Overhead Crane Core Advantages

- **High-Efficiency Electromagnetic Adsorption:** Equipped with a high-performance electromagnetic chuck, the crane boasts strong magnetic force and fast adsorption/desorption response. It can securely hold large volumes of steel scrap of various shapes and sizes, eliminating the need for cumbersome binding or clamping tools. The adsorption capacity is precisely calibrated to ensure no material slippage during lifting and transferring, improving handling efficiency by up to 30% compared to traditional mechanical handling methods.
- **Stable & Reliable Structure:** The crane bridge and trolley are constructed from high-strength steel, after rigorous welding and heat treatment processes, ensuring excellent load-bearing capacity and structural stability. The optimized beam design minimizes deformation under heavy loads, extending the service life of the equipment even in harsh industrial environments with high dust, vibration, and temperature fluctuations.

- Precise Control & Operational Flexibility:** Adopting a frequency conversion speed regulation system and a high-precision control panel, the crane enables smooth lifting, lowering, and horizontal movement. Operators can easily adjust the speed according to the handling requirements, achieving precise positioning of materials to avoid collisions with surrounding equipment or materials. The control mode supports both ground operation and cab operation, adapting to different workshop layouts and operational habits.
- Energy-Saving & Environmental Protection:** The electromagnetic system is designed with an energy-saving circuit, which automatically reduces power consumption during the holding phase without affecting the adsorption force. Compared to similar products, it can save up to 20% of electrical energy. Additionally, the closed electromagnetic structure prevents magnetic leakage, avoiding interference with other electronic equipment in the workshop.
- Comprehensive Safety Protection:** The crane is equipped with multiple safety protection devices, including overload protection, overvoltage/undervoltage protection, electromagnetic chuck demagnetization protection, and emergency stop buttons. In case of power failure, the backup power supply ensures that the electromagnetic chuck maintains the adsorption force for a certain period, preventing material falling and ensuring the safety of personnel and equipment.

Technical Parameters (Customizable)

Parameter Item	Specification Range
Rated Lifting Capacity	5-50 t
Span	10-31.5 m
Lifting Height	6-24 m
Lifting Speed	0.8-8 m/min (adjustable)
Trolley Travel Speed	10-30 m/min
Crane Travel Speed	20-45 m/min
Power Supply	380V/50Hz (customizable for different regions)
Working Class	A5-A7

Steel Scrap Electromagnetic Overhead Crane Applicable Scenarios

This Steel Scrap Electromagnetic Overhead Crane is widely used in various fields involving ferromagnetic material handling, including:

- Steel mills: Handling steel scrap, pig iron, and steel billets in smelting workshops.
- Metal recycling yards: Sorting, transferring, and stacking recycled steel scrap and iron materials.
- Foundries: Lifting and moving cast iron scraps, metal molds, and finished castings.
- Shipyards: Handling steel plates, steel structures, and scrap metal generated during shipbuilding and maintenance.
- Waste treatment plants: Processing and transferring metal waste in waste sorting lines.

After-Sales Service & Support

We are committed to providing customers with comprehensive after-sales service to ensure the stable operation of equipment:

1. Professional installation and commissioning: Our technical team will conduct on-site installation and commissioning, and provide operational training for operators.
2. Regular maintenance: We offer regular maintenance services to inspect and maintain key components such as the electromagnetic system, crane structure, and control system, extending the equipment's service life.
3. 24/7 technical support: Our after-sales hotline is available 24 hours a day to provide timely solutions to equipment failures and technical problems.
4. Spare parts supply: We have a complete supply chain of spare parts to ensure the quick supply of replacement parts when needed.

The Steel Scrap Electromagnetic Overhead Crane is a reliable partner for your material handling operations, integrating efficiency, safety, and durability. Customization services are available according to your specific workshop layout, lifting requirements, and working environment. Contact us today to learn more about how this product can optimize your production efficiency!

(注：文档部分内容可能由AI生成)