

15 Ton Overhead Crane: Industrial Lifting Solution for Heavy-Duty Applications

Original link: <https://www.globalweihua.com/products/overhead-crane/15-ton-overhead-crane/>



Product Overview

The 15 Ton Overhead Crane is a rugged, high-performance material handling system engineered specifically for heavy-duty industrial applications. Designed to lift and transport loads up to 15 tons (15,000 kg) with exceptional precision and operational efficiency, it serves as an indispensable asset in manufacturing facilities, warehouses, ports, construction sites, and metallurgical plants worldwide. Compliant with stringent international standards (ISO 9001, CE, GB/T), this [overhead crane](#) integrates superior durability, advanced safety mechanisms, and flexible operation to streamline workflow, reduce labor intensity, and maximize overall productivity.

15 Ton Overhead Crane Core Technical Specifications

Parameter	Specification
Rated Capacity	15 Ton (15,000 kg)
Span Range	10m – 30m (Customizable to meet site-specific requirements)
Lifting Height	6m – 20m (Extended heights available via custom engineering)

Lifting Speed

0.5m/min – 10m/min (Dual-speed configuration optional for precision/efficiency)	
Trolley Travel Speed	10m/min – 30m/min (Variable frequency drive (VFD) compatible for smooth control)
Crane Travel Speed	20m/min – 50m/min (VFD-supported for stepless acceleration/deceleration)
Working Class	A5 – A7 (Suitable for intermittent to continuous heavy-load cycles)
Power Supply	380V/400V, 3-Phase, 50/60Hz (Custom voltage/frequency options available globally)
Control Mode	Standard Pendant Control; Wireless Remote Control (Optional, 100m operating range)
Material	Main Beam: Q235B/Q355B High-Strength Structural Steel; Crane Hook : Forged Alloy Steel (Heat-Treated)

15 Ton Overhead Crane Key Features

- 1. Exceptional Load-Bearing Stability:** Built with premium structural steel, the box-type main beam and end beams offer enhanced rigidity, anti-deformation performance, and uniform load distribution—ensuring consistent, safe operation even under full 15-ton capacity.
- 2. Precision Lifting & Traversal:** Equipped with a high-torque copper-wound motor and precision-engineered gearbox, the crane delivers smooth, sway-minimized lifting and horizontal movement , enabling accurate load positioning and reducing operational errors.
- 3. Comprehensive Safety Systems:** Integrated safety features include electronic overload protection (weight limiter), dual lifting height limits (mechanical + electronic), travel limit switches , emergency stop (local + remote), anti-derailment guards, and overload alarm—fully compliant with global safety standards (EN 14492, GB/T 3811) to protect personnel and valuable assets.
- 4. Energy-Efficient & Durable Design:** Adopts VFD technology for stepless speed regulation, cutting energy consumption by up to 30% while minimizing mechanical wear. Sealed bearings, corrosion -resistant coatings, and dust-proof electrical enclosures extend service life in harsh industrial environments.

- 5. **User-Centric Operation & Maintenance:** Ergonomic pendant controls (IP65 waterproof) or wireless remotes enable safe, convenient operation from a distance. Modular component design, accessible lubrication points, and detailed maintenance manuals simplify upkeep and reduce downtime.
- 6. **Tailored Configurations:** Customize span, lifting height, control mode, and optional accessories ([crane grab buckets](#), electromagnetic suckers, weighing scales, anti-collision systems, or temperature-resistant components) to align with unique application needs.

15 Ton Overhead Crane Application Scenarios

Ideal for heavy-duty material handling across industries:

- **Manufacturing Plants:** Automotive assembly, machinery fabrication, steel production, aerospace component handling
- **Warehouses & Logistics Centers:** Container stacking, palletized cargo movement, bulk material loading/unloading
- **Ports & Docks:** Shipment handling, bulk commodity transport, container terminal operations
- **Construction Sites:** Precast component installation, heavy equipment relocation, steel structure erection
- **Metallurgical & Mining Industries:** Metal scrap handling, ore transport, smelting material movement
- **Power & Energy Facilities:** Generator maintenance, boiler component installation, turbine assembly

Quality Assurance & After-Sales Service

- Rigorous pre-delivery inspections: 125% load testing, dynamic performance verification, and safety system validation
- 12-month warranty on core components (motor, gearbox, crane structure) + lifelong technical support
- Professional on-site services: Installation, commissioning, operator training, and preventive maintenance guidance
- Global spare parts distribution network for fast delivery and minimal operational downtime
- 24/7 dedicated customer service hotline for urgent inquiries and technical assistance

Why Choose Our 15 Ton Overhead Crane?

- **Proven Reliability:** Field-tested in extreme industrial conditions with a 10+ year average service life
- **Optimal Cost-Performance:** Advanced technology paired with competitive pricing, reducing total ownership costs
- **Global Compliance:** Meets ISO 9001 quality management, CE safety, and GB/T industrial standards for seamless market access
- **Custom Engineering:** Tailored solutions to fit unique workflow, space, and load requirements
- **Expert Support:** Team of certified engineers provides end-to-end consultation from design to post-installation

For customized quotes, technical drawings, or further details on configuration options, contact our sales engineers today!

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