

Rubber Tyred Gantry (RTG) Cranes - Product Detail Introduction

Original link: <https://www.globalweihua.com/crane-hook/rubber-tyred-gantry-rtg-cranes/>

Product Overview

Rubber Tyred Gantry (RTG) cranes are essential material handling equipment widely used in container terminals, intermodal yards, and industrial storage facilities. Designed with rubber tires for mobility, these cranes offer exceptional flexibility in moving and stacking containers, making them a cornerstone in modern logistics and supply chain operations. Unlike fixed rail-mounted gantry cranes, RTG cranes can maneuver across large yard areas without being restricted by rail tracks, enabling efficient utilization of storage space and adapting to dynamic operational needs.

Core Features & Advantages

- **Superior Mobility:** Equipped with high-quality rubber tires and advanced steering systems (including 4-wheel, 8-wheel, or all-wheel steering), RTG cranes can achieve precise positioning, 90-degree turning, and even crab steering. This allows them to navigate through narrow gaps between container stacks and access any area of the yard with ease, significantly improving operational efficiency.
- **High Load-Carrying Capacity:** Our RTG cranes are engineered to handle various container sizes, from 20-foot to 45-foot containers, with rated lifting capacities ranging from 40 tons to 65 tons. The robust steel structure and stable lifting mechanism ensure safe and reliable handling of heavy loads, meeting the demands of high-volume container throughput.
- **Intelligent Control System:** Integrated with state-of-the-art PLC (Programmable Logic Controller) and HMI (Human-Machine Interface), the cranes feature intelligent functions such as automatic positioning, anti-sway control, load moment monitoring, and remote operation. These functions reduce operator fatigue, minimize human errors, and enhance overall operational safety and productivity.

- **Energy Efficiency:** We offer both diesel-powered and hybrid (diesel-electric) RTG crane models. The hybrid models utilize lithium-ion batteries or supercapacitors to store energy during braking and idle periods, reducing fuel consumption by up to 30-40% compared to traditional diesel models. This not only lowers operational costs but also reduces carbon emissions and environmental impact.
- **Durability & Low Maintenance:** The cranes are built with high-strength materials and undergo rigorous quality testing to withstand harsh working environments, such as extreme temperatures, humidity, and dusty conditions. Key components, such as tires, motors, and gearboxes, are sourced from renowned manufacturers to ensure long service life and minimal maintenance requirements, reducing downtime and operational costs.

Technical Specifications

Parameter	Specification
Rated Lifting Capacity	40t - 65t (Customizable)
Container Handling Size	20' - 45'
Span (Container Rows)	6 + 1 rows, 7 + 1 rows
Lifting Height (Above Rail)	12m - 18m (5 - 8 container tiers)
Travel Speed	0 - 30 m/min (adjustable)
Lifting Speed	0 - 15 m/min (empty), 0 - 8 m/min (loaded)
Power Source	Diesel engine (EPA Tier 4 / EU Stage V) or Hybrid (Diesel + Battery)
Steering Mode	4-wheel/8-wheel/all-wheel steering, crab steering

Application Scenarios

RTG cranes are versatile and suitable for a wide range of applications, including:

- **Container Terminals:** Used for stacking and transferring containers between ships, trucks, and railcars, optimizing yard operations and increasing throughput.

- **Intermodal Yards:** Facilitating the transfer of containers between different modes of transportation (truck, rail), ensuring smooth intermodal connectivity.
- **Industrial Storage Facilities:** Handling and storing large containers or heavy equipment in manufacturing plants, warehouses, and logistics centers.
- **Port Expansion Projects:** Providing flexible and temporary lifting solutions during port construction or expansion, without the need for permanent rail infrastructure.

After-Sales Service & Support

We are committed to providing comprehensive after-sales service to ensure the stable and efficient operation of your RTG cranes. Our services include:

- Professional installation, commissioning, and operator training.
- 24/7 technical support and emergency maintenance services.
- Supply of genuine spare parts with competitive prices and fast delivery.
- Regular maintenance and inspection programs to extend the service life of the cranes.

Whether you need a standard RTG crane or a customized solution tailored to your specific operational requirements, we have the expertise and experience to meet your needs. Contact us today to learn more about our RTG cranes and get a detailed quotation!

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