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## OUR PRODUCTS

- EOT Cranes (Single & Double Girder)
- Gantry Cranes (Single & Double Girder)
- JIB Cranes
- Wire rope hoists (All Types)

# APR CRANES

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[www.aprecranes.com](http://www.aprecranes.com)

Contact Info: +91-98167 00039

Gantry cranes are heavy-duty lifting devices that play a crucial role in various industries.

Here's a comprehensive overview:

### **Core Concept:**

- A gantry crane is a type of overhead crane supported by freestanding legs that run along rails or wheels at ground level.
- This distinguishes them from overhead bridge cranes, which are supported by building structures.
- They are designed to move heavy loads horizontally along a track, making them ideal for outdoor applications and areas where overhead support structures are impractical.

### **Key Features:**

- **Gantry Structure:**
  - Consists of legs and a horizontal beam (girder).
  - Provides a stable framework for lifting.
- **Girder:**
  - The horizontal beam that supports the trolley and hoist.
  - Can be single or double girder, depending on the load capacity.
- **Trolley:**
  - Travels along the girder, carrying the hoist.
- **Hoist:**
  - The lifting mechanism (electric, hydraulic, or manual).
- **Legs:**
  - Support the gantry structure and move along rails or wheels.
- **Rail System:**
  - Provides a track for the crane to travel along. Or in the case of rubber tire gantry cranes, rubber tires are used.

### **Types of Gantry Cranes:**

- **Full Gantry Cranes:**
  - Both ends of the crane run on ground-level rails.
  - Suitable for outdoor applications and large areas.
- **Semi-Gantry Cranes:**
  - One end of the crane runs on a ground-level rail, and the other end runs on a wall-mounted rail.
  - Useful for areas where space is limited.
- **Portable Gantry Cranes:**
  - Mounted on wheels or casters for easy relocation.

- Ideal for light-duty applications and temporary use.
- **Rubber-Tired Gantry Cranes (RTGs):**
  - Move on rubber tires, providing greater flexibility in movement.
  - Commonly used in container terminals.

### **Applications:**

- **Shipyards:**
  - Lifting and moving large ship components.
- **Container Terminals:**
  - Loading and unloading containers from ships and trucks.
- **Construction Sites:**
  - Moving heavy materials and equipment.
- **Rail Yards:**
  - Loading and unloading railcars.
- **Manufacturing Facilities:**
  - Handling large and heavy workpieces.
- **Storage Yards:**
  - moving large heavy items.

### **Advantages:**

- **Versatility:**
  - Can be used in various indoor and outdoor applications.
- **High Load Capacity:**
  - Capable of lifting extremely heavy loads.
- **Flexibility:**
  - Can be customized to meet specific lifting requirements.
- **Ground-Level Operation:**
  - Eliminates the need for overhead support structures.