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# GANTRY CRANES

APR CRANES: MANUFACTURERS,  
SUPPLIERS, AND EXPORTERS



[www.apr-crane.com](http://www.apr-crane.com)



# About Gantry Cranes

A gantry crane is a crane built atop a gantry, which is a structure used to straddle an object or workspace. This structure allows the crane to move along a fixed track, typically on rails.

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# Types of Gantry Cranes

**Full Gantry Crane:** The most common type, it has two upright legs that support a bridge, allowing the crane to move in two dimensions (along the track and across the bridge).

**Semi-Gantry Crane:** One leg is fixed to a wall or structure, while the other leg is free-standing.

**Jib Gantry Crane:** Has a single upright leg and a jib arm that extends horizontally.

**Mobile Gantry Crane:** Can be moved and repositioned on site as needed.

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# Common Applications

Gantry cranes are found in a wide range of industries:

- Construction: Lifting building materials, prefabricated components, etc.
- Manufacturing: Moving heavy machinery, raw materials, and finished products.
- Warehousing: Transporting goods within warehouses and distribution centers.
- Shipyards: Building and repairing ships.
- Mining: Loading and unloading ore and other materials.
- Rail Yards: Moving rail cars and components.

# Gantry Crane Capacity and Specifications

Common Capacity Ranges:

Light-Duty Gantry Cranes: 1-5 tons

Medium-Duty Gantry Cranes: 5-20 tons

Heavy-Duty Gantry Cranes: 20-100+ tons

Capacity:

**Lifting Capacity:** This is the maximum weight a crane can lift at a specific point. It's influenced by factors like the crane's structural strength, hoisting mechanism, and the type of load.

**Span:** The distance between the two legs or supports of the crane. A larger span allows for a wider coverage area but may limit the lifting capacity.

**Hoist Height:** The maximum vertical distance the load can be lifted.



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