

GANTRY CRANES

AT A GLANCE

WHAT IS A GANTRY CRANE?

A gantry crane is a type of overhead crane that is similar to a bridge crane, but instead of moving on suspended runways, the crane uses legs to support the bridge, trolley, and hoist. These legs travel on tires or rails that are embedded in the floor or ground structure.

TYPES

There are four types of gantry cranes: full, semi, portable, and adjustable. Full gantry cranes are usually used outdoors, the remaining three are used either indoors or outdoors.

Full gantry cranes are supported by two legs, while semi-gantry cranes have only one leg. On semi-gantry cranes, one side of the bridge connects to and rides along a runway.

Portable gantry cranes are smaller and can be wheeled throughout a facility. Adjustable gantry cranes are a type of portable gantry crane in which the beam height can be adjusted.

CONFIGURATIONS

The configuration of gantry cranes can be single or double girder.

APPLICATIONS

Common uses for a full gantry or semi-gantry crane are heavy fabrication applications, or in some type of outdoor yard—rail yards, shipping and container yards, steel yards, and scrap yards. Portable and adjustable gantry cranes are often used to lift and hold an item in place while it is being worked on or to relocate heavy equipment and machinery.



Full Gantry, Double Girder



Semi-Gantry, Single Girder



Portable Gantry



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