

Crane Selection Decision Matrix

Use this matrix to compare different types of cranes across key criteria when evaluating which lifting solution best fits your facility's needs.

				
<i>Crane Type</i>	Overhead Bridge Crane	Full/Semi Gantry Cranes	Jib Crane	Workstation Crane
<i>Hoist Class</i>	A to F	A to F	A to F	A to F
<i>Typical Load Capacity</i>	Light to very heavy	Light to heavy	Light to heavy	Light to moderate (< 2 tons)
<i>Coverage Area</i>	Full bay or facility	Partial/full mobile	Local swing radius	Workstation or cell
<i>Building Dependency</i>	Requires strong structure	Strong structure/Independent	Column or wall-mounted	Freestanding or suspended
<i>Installation Time</i>	Longer timeframe	Medium timeframe	Short timeframe	Short timeframe
<i>Flexibility of relocation and upgrades</i>	Low - fixed capacity	Low to medium (mobile possible)	High	High
<i>Footprint Impact</i>	High (overhead)	High to medium - tracks on floor	Small to low	Low
<i>Best Use Case Scenario</i>	High-capacity and mobility of material handling	High-capacity and mobility of material handling	Medium-capacity and mobility of material handling	Effective ergonomic material handling in defined areas

Hoist Classification as Defined by CMAA: The CMAA classifies hoists based on the load spectrum, daily operating time and starting frequency to ensure they are suitable for intended use. This classification helps in selecting the right hoist for the specific lifting needs of a facility, enhancing safety, reliability, and efficiency in lifting operations. The classification system is designed to match the crane or hoist with the intended application, ensuring that the equipment can perform the job effectively.

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