

Mast Type Jib Cranes

Reduced thrust and pull forces, no foundation required



The MT Series Crane is floor supported, top stabilized, and is capable of 360° rotation via a top and bottom bearing assembly.

Three key requirements must be met before deciding on a Mast Type Jib Crane:

1. An adequate structural support to stabilize the crane at the top of the mast must exist. If the jib is installed underneath an overhead crane runway or building truss, then the deflection of the supporting member may not exceed 1/2 inch
2. Clearance overhead for the pivot assembly must exist
3. Clearance overhead for the boom to rotate must exist

Available in Two Styles

1. MT400 FULL CANTILEVER - provides for maximum amount of lift where full use of available headroom is desired
2. MT450 DROP CANTILEVER - jib boom can be placed at a specific height to clear overhead obstructions

Gorbel's Advantage:

Economical

- Simple, efficient design that usually requires no special foundation makes the Mast Type Cranes the most cost effective of the 360° rotation jib styles

Exerts Less Force On Building Structure

- Exerts the least amount of force of any Gorbel® jib on its supporting structure

Safety

- Utilizes a self-aligning radial bushing at the top which cannot be displaced, and an identical self-aligning radial bushing at the bottom which, when used in combination with an oil-impregnated bronze thrust washer, provides ease of movement

Full Rated Capacity

- Pre-engineered for use with powered hoists. A factor of 15% of the jib crane capacity is allowed for the hoist and trolley weight with an additional 25% of the capacity allowed for impact, thus giving full rated capacity use of the jib

Productive

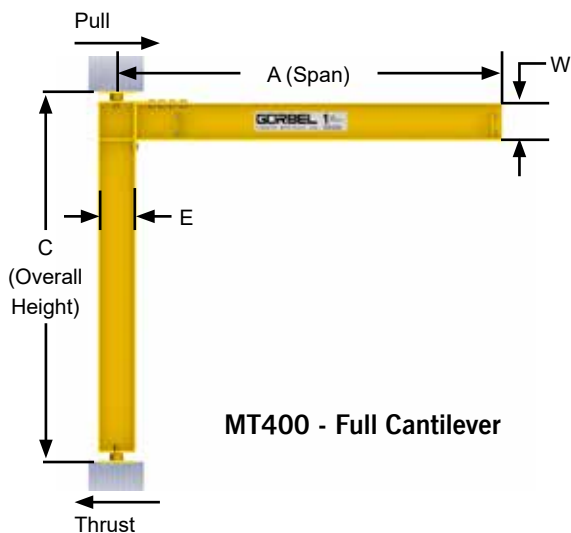
- Allows full utilization of the working area with 360° rotation

Maximum Trolley Travel

- Mast/beam connections eliminate the need for tie rods or knee braces found on competitive designs, thus permitting maximum trolley travel



Power rotation is an available option.



MT400 - Full Cantilever



MT450 - Drop Cantilever

The diagram above details the thrust and pull forces that the jib crane applies to the supporting structure when a load is lifted. It is essential that a structurally adequate wall or column exists to support the jib crane. Contact your local Gorbel® dealer for specific thrust and pull forces.

MT400 Mast Type Cranes

CAPACITY	OAH (C)	SPAN (A)						
		8'	10'	12'	14'	16'	18'	20'
1/4 Ton	10'	MT400-8-6-15	MT400-8-6-15	MT400-8-6-15	MT400-8-8-15	MT400-8-8-15	MT400-10-8-15	MT400-10-8-15
	12'	MT400-8-6-15	MT400-8-6-15	MT400-8-6-15	MT400-8-8-15	MT400-8-8-15	MT400-10-8-15	MT400-10-8-15
	14'	MT400-8-6-15	MT400-8-6-15	MT400-8-6-15	MT400-8-8-15	MT400-10-8-15	MT400-10-8-15	MT400-10-8-15
	16'	MT400-8-6-15	MT400-8-6-15	MT400-8-6-15	MT400-8-8-15	MT400-10-8-15	MT400-10-8-15	MT400-10-8-15
	18'	MT400-8-6-15	MT400-8-6-15	MT400-8-6-15	MT400-8-8-15	MT400-10-8-15	MT400-10-8-15	MT400-10-8-15
	20'	MT400-8-6-15	MT400-8-6-15	MT400-8-6-15	MT400-10-8-15	MT400-10-8-15	MT400-10-8-15	MT400-14-8-15
1/2 Ton	10'	MT400-8-6-15	MT400-10-8-15	MT400-10-8-15	MT400-14-8-15	MT400-14-10-15	MT400-14-10-15	MT400-14-10-15
	12'	MT400-8-6-15	MT400-10-8-15	MT400-10-8-15	MT400-14-8-15	MT400-14-10-15	MT400-14-10-15	MT400-14-10-15
	14'	MT400-8-6-15	MT400-10-8-15	MT400-10-8-15	MT400-14-8-15	MT400-14-10-15	MT400-14-10-15	MT400-14-10-15
	16'	MT400-8-6-15	MT400-10-8-15	MT400-10-8-15	MT400-14-8-15	MT400-14-10-15	MT400-14-10-15	MT400-14-10-15
	18'	MT400-8-6-15	MT400-10-8-15	MT400-10-8-15	MT400-14-8-15	MT400-14-10-15	MT400-14-10-15	MT400-14-10-15
	20'	MT400-10-6-15	MT400-10-8-15	MT400-10-8-15	MT400-14-8-15	MT400-14-10-15	MT400-14-10-15	MT400-16-10-15
1 Ton	10'	MT400-10-8-15	MT400-14-8-15	MT400-14-10-15	MT400-14-10-15	MT400-14-12-15	MT400-16-12-20	MT400-16-16-20
	12'	MT400-10-8-15	MT400-14-8-15	MT400-14-10-15	MT400-14-10-15	MT400-14-12-15	MT400-16-12-15	MT400-16-16-20
	14'	MT400-10-8-15	MT400-14-8-15	MT400-14-10-15	MT400-14-10-15	MT400-14-12-15	MT400-16-12-15	MT400-16-16-15
	16'	MT400-10-8-15	MT400-14-8-15	MT400-14-10-15	MT400-14-10-15	MT400-16-12-15	MT400-16-12-15	MT400-18-16-15
	18'	MT400-14-8-15	MT400-14-8-15	MT400-14-10-15	MT400-16-10-15	MT400-16-12-15	MT400-18-12-15	MT400-18-16-15
	20'	MT400-14-8-15	MT400-14-8-15	MT400-14-10-15	MT400-16-10-15	MT400-16-12-15	MT400-18-12-15	MT400-18-16-15
2 Ton	10'	MT400-14-10-15	MT400-14-10-20	MT400-16-12-20	MT400-16-12-20	MT400-18-16-20	MT400-18-18-25	MT400-21-21-25
	12'	MT400-14-10-15	MT400-14-10-20	MT400-16-12-20	MT400-16-12-20	MT400-18-16-20	MT400-18-18-20	MT400-21-21-20
	14'	MT400-14-10-15	MT400-16-10-15	MT400-16-12-20	MT400-18-12-20	MT400-18-16-20	MT400-18-18-20	MT400-21-21-20
	16'	MT400-14-10-15	MT400-16-10-15	MT400-18-12-15	MT400-18-12-20	MT400-18-16-20	MT400-18-18-20	MT400-21-21-20
	18'	MT400-16-10-15	MT400-16-10-15	MT400-18-12-15	MT400-18-12-15	MT400-18-16-20	MT400-21-18-20	MT400-21-21-20
	20'	MT400-16-10-15	MT400-18-10-15	MT400-18-12-15	MT400-18-12-15	MT400-18-16-15	MT400-21-18-20	MT400-21-21-20
3 Ton	10'	MT400-16-12-20	MT400-16-12-20	MT400-18-16-20	MT400-18-16-25	MT400-21-21-25	MT400-21-21-25	MT400-21-24-25
	12'	MT400-16-12-20	MT400-16-12-20	MT400-18-16-20	MT400-18-16-25	MT400-21-21-25	MT400-21-21-25	MT400-21-24-25
	14'	MT400-16-12-20	MT400-18-12-20	MT400-18-16-20	MT400-18-16-20	MT400-21-21-25	MT400-21-21-25	MT400-21-24-25
	16'	MT400-18-12-15	MT400-18-12-20	MT400-18-16-20	MT400-18-16-20	MT400-21-21-20	MT400-21-21-25	MT400-24-24-25
	18'	MT400-18-12-15	MT400-18-12-15	MT400-18-16-20	MT400-21-16-20	MT400-21-21-20	MT400-24-21-20	MT400-24-24-25
	20'	MT400-18-12-15	MT400-18-12-15	MT400-18-16-20	MT400-21-16-20	MT400-21-21-20	MT400-24-21-20	MT400-24-24-25
5 Ton	10'	MT400-18-18-25	MT400-18-18-25	MT400-21-21-25	MT400-21-21-25	MT400-24-24-25	MT400-24-24-25	MT400-24-24-25
	12'	MT400-18-18-25	MT400-18-18-25	MT400-21-21-25	MT400-21-21-25	MT400-24-24-25	MT400-24-24-25	MT400-24-24-25
	14'	MT400-18-18-20	MT400-18-18-25	MT400-21-21-25	MT400-24-21-25	MT400-24-24-25	MT400-24-24-25	MT400-27-24-25
	16'	MT400-18-18-20	MT400-21-18-20	MT400-21-21-25	MT400-24-21-25	MT400-24-24-25	MT400-27-24-25	MT400-27-24-25
	18'	MT400-18-18-20	MT400-21-18-20	MT400-24-21-20	MT400-24-21-25	MT400-27-24-25	MT400-27-24-25	MT400-27-24-25
	20'	MT400-21-18-20	MT400-21-18-20	MT400-24-21-20	MT400-24-21-25	MT400-27-24-25	MT400-27-24-25	MT400-27-24-25

Model Number Explanation

Example: 1/2 Ton MT400-8-6-15; 1/2 Ton = 1,000 pound capacity, MT400 = full cantilever style, 8 = mast wide flange depth in inches (E), 6 = beam size in inches (W), 15 = mast pivot pin diameter (1-1/2").

Other Models, Sizes and Capacities Readily Available

MT450 (drop cantilever), and other spans, heights, and capacities are available by contacting your local Gorbels® dealer.

Note: Dimensions are subject to change without notice.