

# Wall Bracket Jib Cranes

## *An economical heavy duty solution*

The Wall Bracket (WB100) Jib is the most economical means of providing hoist coverage for individual use in bays, along walls or columns of plants, or as a supplement to an overhead crane or monorail system.

Two key requirements must be met before applying the Wall Bracket Series:

1. A structurally adequate wall or column to support the jib must exist
2. Sufficient clearance above the boom throughout its arc to accommodate the tie rod suspension must exist



 **200° Power rotation is an available option.**

## **Gorbel's Advantage:**

### **Ease of Movement**

- Low dead weight of the boom combined with bronze bushings and oil-impregnated bronze thrust washers provide for easy rotation and superior load positioning

### **Safety**

- Formed bracket fittings provide for greater reliability. No welds in tension, all bolts are in double shear for increased strength

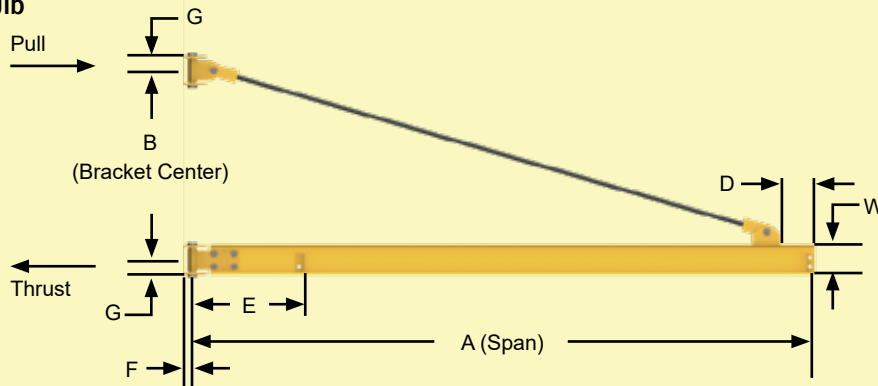
### **Full Rated Capacity**

- 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

### **Ease of Installation**

- Single tie rod, right hand threaded at both ends for easy leveling
- All connections bolted, including movable bolted trolley stops
- Grease fittings are provided for easy field lubrication

### **WB100 - Wall Bracket Jib**



The Thrust & Pull diagram above details the thrust and pull forces that the jib applies to the supporting structure when a load is lifted. It is essential that a structurally adequate wall or column exists. Refer to the Thrust & Pull chart opposite this page for exact forces.

Fitting kits are available for fabrication of cranes locally.



Top Bracket Fitting



Bottom Bracket Fitting



Beam Bracket Fitting

## WB100 Wall Bracket

| CAPACITY | SPAN (A) | MODEL NUMBER       | B      | D     | E       | F      | G      | W   | TIE ROD DIAMETER | THRUST & PULL |
|----------|----------|--------------------|--------|-------|---------|--------|--------|-----|------------------|---------------|
| 1/2 Ton  | 8'       | WB100-G1-8-W6      | 2' 9"  | 1' 3" | 13-1/2" | 3-1/2" | 3-1/2" | 6"  | 1"               | 3703#         |
|          | 10'      | WB100-G1-10-W6     | 3' 0"  | 1' 6" | 13-1/2" | 3-1/2" | 3-1/2" | 6"  | 1"               | 4400#         |
|          | 12'      | WB100-G1-12-W6     | 3' 9"  | 1' 9" | 13-1/2" | 3-1/2" | 3-1/2" | 6"  | 1"               | 4337#         |
|          | 14'      | WB100-G1-14-W6     | 4' 6"  | 2' 0" | 13-1/2" | 3-1/2" | 3-1/2" | 6"  | 1"               | 4306#         |
|          | 16'      | WB100-G1-16-W6     | 5' 6"  | 2' 0" | 13-1/2" | 3-1/2" | 3-1/2" | 6"  | 1"               | 4097#         |
|          | 18'      | WB100-G1-18-W8     | 6' 0"  | 2' 0" | 13-1/2" | 3-1/2" | 3-1/2" | 8"  | 1"               | 4453#         |
|          | 20'      | WB100-G1-20-W8     | 6' 6"  | 2' 3" | 13-1/2" | 3-1/2" | 3-1/2" | 8"  | 1"               | 4646#         |
|          | 24'      | WB100-G1-24-W8     | 7' 6"  | 2' 6" | 13-1/2" | 3-1/2" | 3-1/2" | 8"  | 1"               | 4985#         |
|          | 30'      | WB100-G1-30-W10    | 10' 0" | 3' 6" | 13-1/2" | 3-1/2" | 3-1/2" | 10" | 1"               | 5230#         |
| 1 Ton    | 8'       | WB100-G1-8-W6      | 2' 9"  | 1' 3" | 13-1/2" | 3-1/2" | 3-1/2" | 6"  | 1"               | 7267#         |
|          | 10'      | WB100-G1-10-W6     | 3' 0"  | 1' 6" | 13-1/2" | 3-1/2" | 3-1/2" | 6"  | 1"               | 8600#         |
|          | 12'      | WB100-G1-12-W6     | 3' 9"  | 1' 9" | 13-1/2" | 3-1/2" | 3-1/2" | 6"  | 1"               | 8444#         |
|          | 14'      | WB100-G1-14-W8     | 4' 6"  | 2' 0" | 13-1/2" | 3-1/2" | 3-1/2" | 8"  | 1"               | 8481#         |
|          | 16'      | WB100-G1-16-W8     | 5' 6"  | 2' 3" | 13-1/2" | 3-1/2" | 3-1/2" | 8"  | 1"               | 8055#         |
|          | 18'      | WB100-G1-18-W8     | 6' 0"  | 2' 6" | 13-1/2" | 3-1/2" | 3-1/2" | 8"  | 1"               | 8419#         |
|          | 20'      | WB100-G1-20-W10    | 6' 6"  | 2' 6" | 13-1/2" | 3-1/2" | 3-1/2" | 10" | 1"               | 8985#         |
|          | 24'      | WB100-G1-24-W10    | 7' 6"  | 2' 9" | 13-1/2" | 3-1/2" | 3-1/2" | 10" | 1"               | 9585#         |
|          | 30'      | WB100-G1-30-W12    | 10' 0" | 3' 6" | 13-1/2" | 3-1/2" | 3-1/2" | 12" | 1"               | 9695#         |
| 2 Ton    | 8'       | WB100-G2-8-W6      | 2' 9"  | 1' 3" | 13-1/2" | 4"     | 4-1/8" | 6"  | 1-1/2"           | 14394#        |
|          | 10'      | WB100-G2-10-W8     | 3' 0"  | 1' 6" | 13-1/2" | 4"     | 4-1/8" | 8"  | 1-1/2"           | 17100#        |
|          | 12'      | WB100-G2-12-W8     | 3' 9"  | 1' 9" | 13-1/2" | 4"     | 4-1/8" | 8"  | 1-1/2"           | 16772#        |
|          | 14'      | WB100-G2-14-W8     | 4' 6"  | 2' 0" | 13-1/2" | 4"     | 4-1/8" | 8"  | 1-1/2"           | 16570#        |
|          | 16'      | WB100-G2-16-W10    | 5' 6"  | 2' 3" | 13-1/2" | 4"     | 4-1/8" | 10" | 1-1/2"           | 15878#        |
|          | 18'      | WB100-G2-18-W10    | 6' 0"  | 2' 3" | 13-1/2" | 4"     | 4-1/8" | 10" | 1-1/2"           | 16569#        |
|          | 20'      | WB100-G2-20-W12    | 6' 6"  | 2' 6" | 13-1/2" | 4"     | 4-1/8" | 12" | 1-1/2"           | 17446#        |
|          | 24'      | WB100-G2-24-W12    | 7' 6"  | 3' 0" | 13-1/2" | 4"     | 4-1/8" | 12" | 1-1/2"           | 18517#        |
|          | 30'      | WB100-G2-30-W12c10 | 10' 0" | 3' 0" | 13-1/2" | 4"     | 4-1/8" | 12" | 1-1/2"           | 17815#        |
| 3 Ton    | 8'       | WB100-G3-8-W8      | 2' 9"  | 1' 3" | 14"     | 4"     | 4-5/8" | 8"  | 1-1/2"           | 21591#        |
|          | 10'      | WB100-G3-10-W8     | 3' 3"  | 1' 6" | 14"     | 4"     | 4-5/8" | 8"  | 1-1/2"           | 23538#        |
|          | 12'      | WB100-G3-12-W10    | 4' 0"  | 1' 9" | 14"     | 4"     | 4-5/8" | 10" | 1-1/2"           | 23568#        |
|          | 14'      | WB100-G3-14-W10    | 4' 9"  | 2' 0" | 14"     | 4"     | 4-5/8" | 10" | 1-1/2"           | 23526#        |
|          | 16'      | WB100-G3-16-W10    | 5' 6"  | 2' 3" | 14"     | 4"     | 4-5/8" | 10" | 1-1/2"           | 23514#        |
|          | 18'      | WB100-G3-18-W12    | 6' 3"  | 2' 3" | 14"     | 4"     | 4-5/8" | 12" | 1-1/2"           | 23755#        |
|          | 20'      | WB100-G3-20-W12    | 6' 3"  | 2' 3" | 14"     | 4"     | 4-5/8" | 12" | 1-1/2"           | 23755#        |
|          | 24'      | WB100-G3-24-W12c10 | 7' 0"  | 2' 6" | 14"     | 4"     | 4-5/8" | 12" | 1-1/2"           | 23800#        |
|          | 30'      | WB100-G3-30-W12c10 | 11' 0" | 3' 0" | 14"     | 4"     | 4-5/8" | 12" | 1-1/2"           | 23915#        |
| 5 Ton    | 8'       | WB100-G5-8-W8      | 2' 9"  | 1' 3" | 14"     | 4"     | 4-5/8" | 8"  | 1-1/2"           | 23577#        |
|          | 10'      | WB100-G5-10-W10    | 3' 0"  | 1' 6" | 15-1/4" | 6"     | 7"     | 8"  | 2"               | 32859#        |
|          | 12'      | WB100-G5-12-W10    | 3' 3"  | 1' 6" | 15-1/4" | 6"     | 7"     | 10" | 2"               | 39169#        |
|          | 14'      | WB100-G5-14-W12    | 4' 0"  | 1' 9" | 15-1/4" | 6"     | 7"     | 10" | 2"               | 38968#        |
|          | 16'      | WB100-G5-16-W12    | 4' 9"  | 2' 0" | 15-1/4" | 6"     | 7"     | 12" | 2"               | 39038#        |
|          | 18'      | WB100-G5-18-W12    | 5' 6"  | 2' 6" | 15-1/4" | 6"     | 7"     | 12" | 2"               | 38996#        |
|          | 20'      | WB100-G5-20-W16    | 6' 3"  | 3' 0" | 15-1/4" | 6"     | 7"     | 12" | 2"               | 38987#        |
|          | 24'      | WB100-G5-24-W12c10 | 7' 0"  | 3' 6" | 15-1/4" | 6"     | 7"     | 16" | 2"               | 39286#        |
|          | 30'      | WB100-G5-30-W16c10 | 8' 9"  | 3' 6" | 15-1/4" | 6"     | 7"     | 12" | 2"               | 37952#        |
|          |          |                    | 11' 0" | 3' 6" | 15-1/4" | 6"     | 7"     | 16" | 2"               | 38750#        |

### Model Number Explanation

Example: 3 Ton WB100-G3-24-W12c10; 3 Ton = 6,000 pound capacity, WB100 = wall bracket style, 24 = span (A), 12 = beam size in inches (W), c10 = 10" cap channel welded to top of boom.

### Other Sizes & Capacities Readily Available

Other spans and capacities are available by contacting your local Gorbel® dealer.

**Note:** Dimensions are subject to change without notice.