Custom bridge cranes for special applications...to your specifications

Low headroom bridge crane
- For extremely low headroom conditions
- Bridge beam operates with a better under clearance

Dual beam bridge crane for suspension of large fixtures that move parallel to an assembly line for a balanced suspended load condition.

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*All dimensions are reference only and need to be verified with factory.
Application

Unified light load bridge cranes are designed for the suspension of portable spotwelding guns, power tools, balancers, hoists, fixtures etc., and other light loads not exceeding 1000 lbs. (454kg).

Specifications

Unified light load bridge cranes consist of two end truck assemblies, mounted with either MBC-500, SAC-500 or AC-500 trolleys, supporting a bridge beam. The bridge beam is a compound section with a hardened and ground flat track 3.25” in width. (See trolley section for trolley specifications).

End trucks are mounted with trolleys for operation on either flat rail or S-Beam. End stops bolted to each end of the bridge complete the assembly.

Options

- Bridge beam overhang to your specifications
- Counter thrust wheels or trolleys are available to prevent "kick-up" action when suspended load must be extended beyond bridge span
- Standard redundant end stops
Optional Self Aligning End Truck

TUBE END TRUCK
2 1/2" x 1 1/2" x 3/16"

2-1/2" x 2" x 1/4" ANGLE

Optional Kick-Up End Truck for Bridges with Extended Overhang.

Optional BT-325 Trolley Assy with Dual Hanging Straps

Optional Extended Overhang

NOTE:
Bridge Cranes are all jigged and fixtured in machining and assembly to insure proper alignment.

WT. COMPLETE
For Bridge Crane Assembly including End Truck Trolleys.
This does not include load suspension trolley.

The above table is based on 1/550 deflection ratio.
**Application**

**Unified** medium load bridge cranes are designed for the suspension of portable spot-welding guns, power tools, balancers, hoists, fixtures etc., and other medium loads not exceeding 3000 lbs. (1360kg)

**Specifications**

**Unified** medium load bridge cranes consist of two end truck assemblies, mounted with either BT-325 or MBC-1000 trolleys, supporting a bridge beam. The bridge beam is a compound section with a hardened and ground flat track 3.25" in width. (See trolley section for trolley specifications).

End trucks are mounted with trolleys for operation on either flat rail or S-Beam. End stops bolted to each end of the bridge complete the assembly.

Spans of 10 ft (3m) or more have diagonal bracing from bridge beam to end trucks.

**Options**

- Bridge beam overhang to your specifications
- Counter thrust wheels or trolleys are available to prevent "kick-up" action when suspended load must be extended beyond bridge span
- Bridge crane spans 10 feet (3m) to 15 feet (4.6m) will be furnished with 6" compound section bridge beam flat flange 3.25" in width
- Bridge crane spans 16 ft. (4.9m) to 20 (6m) feet will be furnished with 8" Trambeam bridge beam flat flange 3.25" in width
- Standard redundant end stops
The above table is based on 1/550 deflection ratio.
Application

Unified overhanging bridge cranes are designed for the suspension of portable spotweld guns, power tools, balancers, hoists, fixtures etc. and other loads not exceeding recommended rated loads. See next page for rated loads of various overhangs.

Specifications

Unified overhanging bridge cranes consist of two end truck assemblies, mounted with two MBC-1000 trolleys without kickup wheels and two MBC-1000 trolleys with kickup wheels on opposite end of overhang, supporting a bridge beam. The bridge beam is a compound section with a hardened and ground flat rail 3.25" in width. See next page for various spans and rated loads.

End trucks are mounted with trolleys for operation on either flat rail or S-Beam. End stops bolted to each end of the bridge beam complete the assembly. Spans of 10 feet (3m) or more have diagonal bracing from bridge beam to end trucks.

Options

- Bridge beam overhang opposite of regular overhang to suit your requirements
- Standard redundant end stops
The above table is based on 1/550 deflection ratio.
Application

Unified heavy load bridge cranes are designed for the suspension of balancers, hoists, fixtures, heavy portable tools etc. and other heavy loads not exceeding 8000 lbs. (3629kg)

Specifications

Unified heavy load bridge cranes consist of two end truck assemblies, mounted with BT-325-10, supporting a bridge beam. The bridge beam is either 8" or 8 1/2" in height with a hardened and ground flat track 3.25" in width. (See trolley section for trolley specifications). End trucks are mounted with trolleys for operation on either flat rail or S-beam. Bolted end stops with neoprene bumpers complete the assembly.

Spans of 10 ft (3m) or more have diagonal bracing from bridge beam to end trucks.

Options

- Bridge beam overhang to your specifications
- Counter thrust wheels can be furnished on request when suspended load must be extended beyond bridge span
- 10" bridge beam with hardened and ground flat rail 3.25" in width
- Standard redundant end stops
Application

Unified light and medium duty telescoping units are designed for the suspension of portable spotweld guns, power tools balancers, hoists fixtures etc. and other light or medium weight loads not exceeding recommended rated loads. See next page for rated loads of various extensions.

Specifications

Unified light and medium duty telescoping units consist of one two-wheel and one three-wheel trolley or carrier head opposite of overhang, mounted to a transfer beam. The medium duty units have a compound section, with a hardened and ground flat track 3.25" in width. (See trolley section for trolley or carrier head specifications).

Transfer beam is mounted with trolleys or carrier heads for operation on either flat rail or S-Beam. End stops bolted to each end of transfer beam complete the assembly.

Options

- Transfer beam overhang opposite of extension to your specifications
- Standard redundant end stops
The above tables are based on 1/550 deflection ratio.
Application
Unified standard duty telescoping self-equalizing tandem trolley units are designed for the suspension of portable spotweld guns, power tools, balancers, hoists, fixtures, etc., and other loads not exceeding recommended rated loads. See next page for rated loads of various extensions.

Specifications
Unified standard duty telescoping units consist of two tandem trolleys welded to a transfer beam. The transfer beam is a compound section 6" in height with a hardened and ground flat rail 3.25" in width. (See trolley section for trolley specifications).
Transfer beam is mounted with tandem trolleys for operation on either flat rail or S-Beam. End stops bolted to each end of transfer beam complete the assembly.

Options
- Transfer beam overhang opposite of extension to your specifications ("C" dimension).
- Standard redundant end stops
TROLLEY SPECIFICATIONS

RATED LOAD: 2,500 LBS. (1120 Kgs)

WEIGHT: 31 LBS. (14 Kgs)

BODY: HIGH TENSILE ALUMAG

WHEEL: 4 5/8" [117] DIA.

STUD: 5/8" [16] DIA.

NOTE:

WHEN ORDERING SPECIFY EXACT WIDTH
OF RUNNING SURFACE FLANGE.
1. 3.25" [82.6] FOR STD. FLAT RAIL AND
3.33" [84.6] FLAT RAIL.
2. 3.33" [84.6] FOR 56 BEAM

<table>
<thead>
<tr>
<th>IN.</th>
<th>MM</th>
<th>12&quot;</th>
<th>304 mm</th>
<th>24&quot;</th>
<th>609 mm</th>
<th>36&quot;</th>
<th>914 mm</th>
<th>48&quot;</th>
<th>1219 mm</th>
<th>60&quot;</th>
<th>1524 mm</th>
<th>72&quot;</th>
<th>1828 mm</th>
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<tbody>
<tr>
<td>18</td>
<td>457</td>
<td>1500 LBS</td>
<td>681.8 KGS</td>
<td>1070 LBS</td>
<td>486.3 KGS</td>
<td>830 LBS</td>
<td>377.2 KGS</td>
<td>680 LBS</td>
<td>309 KGS</td>
<td>575 LBS</td>
<td>261.3 KGS</td>
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<td>24</td>
<td>609</td>
<td>1665 LBS</td>
<td>756.8 KGS</td>
<td>1250 LBS</td>
<td>568.1 KGS</td>
<td>1000 LBS</td>
<td>454.5 KGS</td>
<td>630 LBS</td>
<td>377.2 KGS</td>
<td>710 LBS</td>
<td>322.7 KGS</td>
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<td>30</td>
<td>762</td>
<td>1785 LBS</td>
<td>811.3 KGS</td>
<td>1385 LBS</td>
<td>629.5 KGS</td>
<td>1135 LBS</td>
<td>515.9 KGS</td>
<td>960 LBS</td>
<td>436.3 KGS</td>
<td>750 LBS</td>
<td>340.9 KGS</td>
<td>550 LBS</td>
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<tr>
<td>36</td>
<td>914</td>
<td>1875 LBS</td>
<td>852.2 KGS</td>
<td>1500 LBS</td>
<td>681.8 KGS</td>
<td>1250 LBS</td>
<td>568.1 KGS</td>
<td>1000 LBS</td>
<td>454.5 KGS</td>
<td>700 LBS</td>
<td>318.1 KGS</td>
<td>520 LBS</td>
<td>236.3 KGS</td>
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<tr>
<td>42</td>
<td>1066</td>
<td>1940 LBS</td>
<td>881.8 KGS</td>
<td>1590 LBS</td>
<td>722.7 KGS</td>
<td>1345 LBS</td>
<td>611.3 KGS</td>
<td>930 LBS</td>
<td>422.7 KGS</td>
<td>660 LBS</td>
<td>300 KGS</td>
<td>495 LBS</td>
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<tr>
<td>48</td>
<td>1219</td>
<td>2000 LBS</td>
<td>909 KGS</td>
<td>1665 LBS</td>
<td>756.8 KGS</td>
<td>1330 LBS</td>
<td>604.5 KGS</td>
<td>875 LBS</td>
<td>397.7 KGS</td>
<td>625 LBS</td>
<td>284 KGS</td>
<td>470 LBS</td>
<td>213.6 KGS</td>
</tr>
</tbody>
</table>

The above table is based on 1/550 deflection ratio.
Application
Unified heavy duty telescoping self-equalizing tandem trolley units are designed for the suspension of portable spotweld guns, power tools, balancers, hoists, fixtures, etc., and other loads not exceeding recommended rated loads. See next page for rated loads of various extensions.

Specifications
Unified heavy duty telescoping units consist of two tandem trolleys welded to a transfer beam. Transfer beam is mounted with tandem trolleys for operation on either flat rail or S-Beam. End stops bolted to each end of transfer beam complete the assembly.

Options
- Transfer beam overhang opposite of extension to your specifications ("C" dimension).
### Beam Size vs Load in Pounds and Kilograms

<table>
<thead>
<tr>
<th>Beam Size</th>
<th>&quot;A&quot;</th>
<th>&quot;B&quot; Load in Pounds and Kilograms</th>
</tr>
</thead>
<tbody>
<tr>
<td>10&quot;</td>
<td>36&quot; 914 mm</td>
<td>4000 LBS, 1818.1 Kg</td>
</tr>
<tr>
<td></td>
<td>48&quot; 1219 mm</td>
<td>3425 LBS, 1556.8 Kg</td>
</tr>
<tr>
<td>10&quot;</td>
<td>60&quot; 1524 mm</td>
<td>5000 LBS, 2272.7 Kg</td>
</tr>
<tr>
<td>11 1/2&quot;</td>
<td>60&quot; 1524 mm</td>
<td>5000 LBS, 2272.7 Kg</td>
</tr>
<tr>
<td>11 1/2&quot;</td>
<td>72&quot; 1828 mm</td>
<td>5330 LBS, 2422.7 Kg</td>
</tr>
</tbody>
</table>

The above table is based on 1/550 deflection ratio.
Unified bridge crane and telescope unit combination for extending loads beyond normal span of runway.

Unified self-aligning carrier SAC-1020-1 used for runways that are not parallel.

Unified anti kick-up carrier MBC-1000-3 for opposing counter thrust of extended load.
MOTORIZED BRIDGE CRANES (AIR AND ELECTRIC)
CAUTION

This bridge crane has a safe load rating, which has been clearly marked on both sides by the manufacturer. The total weight of the suspended load should never exceed 125% of this limit. The weight of all handling devices such as buckets, magnets, grabs, balancers, hoists, weldguns, etc. must be included as a part of the suspended load. The weight of such devices should therefore be determined and clearly marked.

Consideration should be given when installing hoisting devices. Load ratings for such devices may exceed the load rating of the bridge crane.

The operator should inspect this bridge crane for loose bolts and worn, cracked or distorted parts prior to use (inspection should include all handling devices and mounting equipment). Defective parts should be replaced with manufacturer-approved parts before use of bridge crane is resumed.

This bridge crane conforms to the safety standards of the U.S. Occupational Safety and Health Administration (OSHA). Any alteration of its structure or change in its rated load capacity may render null and void any manufacturer's warranties, expressed or implied.

*All dimensions are reference only and need to be verified with factory.