

Bridge crane support connecting rod

Article Overview

A bridge crane support connecting rod, often called a hanger rod, is a threaded rod used to suspend and stabilize the crane runway from overhead beams, ensuring proper alignment and load distribution.

Function and Purpose

The support connecting rod serves as a critical structural link between the crane runway and the overhead support beams. It maintains the vertical alignment of the runway, supports the weight of the bridge crane, and allows for lateral and longitudinal bracing to prevent sway during operation. Proper installation ensures smooth trolley movement and safe load handling.

Installation Guidelines

- o **Clamp Attachment:** The hanger rod is typically installed on a beam clamp (e.g., C-480 clamp) before securing the clamp to the beam. Two nuts and lock washers are used, and the nuts are counter-tightened until the washer is fully flattened.
- o **Bracket Mounting:** Mounting support brackets or hangers are bolted to the ceiling or overhead beam. The rod passes through these brackets to suspend the runway.
- o **Alignment:** Hangers must align with pre-drilled holes in the track, and bolts must be properly tightened to ensure free rolling of end trucks.
- o **Sway Bracing:** All systems with drop rod hangers require lateral and longitudinal bracing, which is typically provided by others, to prevent movement under load.

Safety Considerations

- o Ensure the hanger rod and clamp are rated for the beam size (e.g., maximum 8" wide by 7/16" thick flanges for C-480 clamps).
- o Maintain minimum clearances: at least 3" between the top of the bridge and overhead obstructions, and 2" between the ends of the bridge and side obstructions.
- o Regular inspection of rods, nuts, and brackets is essential to prevent loosening or failure during operation.

Additional Notes

- o Runway splices may be installed without a hanger rod, but splice joints must be within 48" of a hanger or splice hanger.
 - o End-trucks should be securely bolted to the bridge, and end-stop assemblies installed to prevent over-travel.
- In summary, the bridge crane support connecting rod is a vital component for suspending and stabilizing the crane bridge, ensuring safe and efficient operation. Proper installation, alignment, and bracing are essential to

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maintain structural integrity and operational safety.

Standard connection details are provided for various crane components, along with specifications on crane

A glossary of terms which discusses the different parts and crane components, and how they can affect performance and design.

A connecting rod is defined as the mechanical linkage between the piston and crankshaft in an engine, requiring high strength, low

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Install the bridge crane by inserting both end trucks into one end of the runway tracks. Adjust and tighten the bridge end truck set

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