

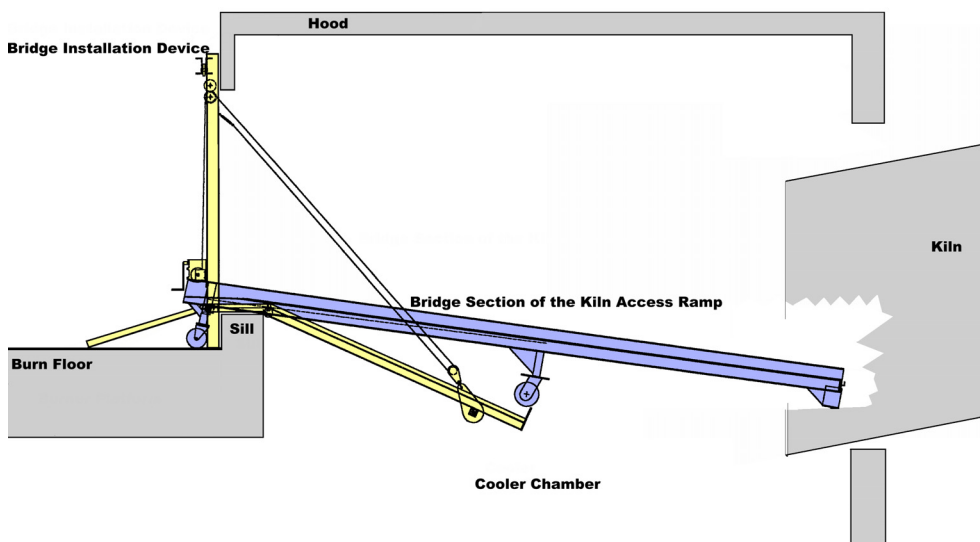
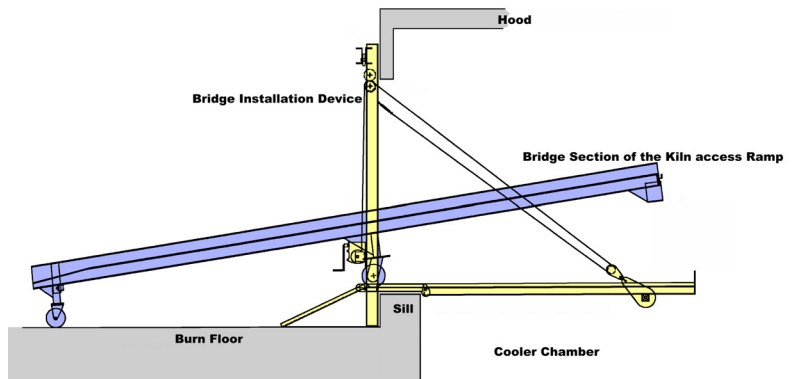
CHOICES IN BRIDGE INSTALLATION METHODS FOR KILN ACCESS RAMPS OVER 30 FEET LONG, AND / OR WEIGHING OVER 3,200 LBS.

When the bridge section of a Brokk Bricking Solutions Kiln Access Ramp exceeds 30 feet (9.15 M), and/ or weighs over 3,200 lbs. (1,453 kg), a standard forklift is insufficient as the only means of support for installing it safely across the cooler breach. Even parallel half sections would be too heavy and dangerous to try to handle with a forklift alone. Three solutions for this safety concern, bearing in mind the need to install and remove the ramp, as well as rotate the kiln while the ramp is in place are presented below:

Method A: Floor Mounted Bridge RAMP LOADING FIXTURE

The Load Fixture is a frame with vertically adjustable horizontal support beams used to support the bridge section by means of cables while it is being extended across the cooler chamber.

This frame must be secured to the burn floor and to the door frame prior to using.



The bridge section is rolled into place using a fork lift and guided by the Loading Fixture. The Load Fixture is then used to lower the bridge section onto the kiln lip with the cable hoist.

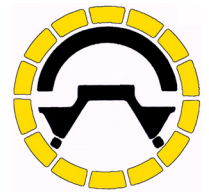
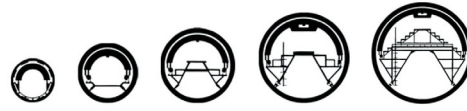
Raising the bridge section in order to rotate the kiln is part of the design function, but care must be taken to ensure that the load fixture is not used to support more than the empty bridge section. All tools and machinery must be removed prior to raising or removing the bridge section.

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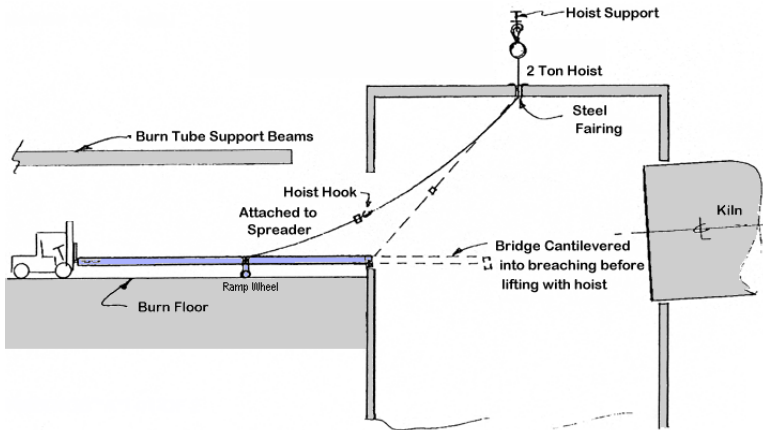
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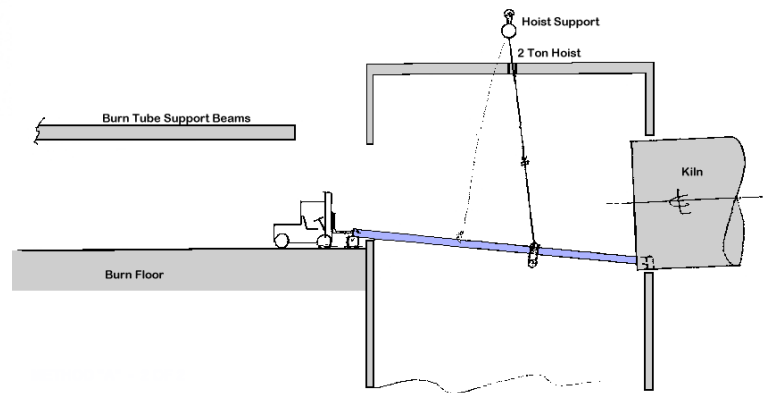
Method B: Overhead Electric Hoist

This operation requires one or more access openings in the top of the cooler breaching, parallel to the kiln and bridge section. An electric hoist with a wire rope is mounted directly above this opening and the hook and cable passes through the opening to attach to the bridge section.



BRIDGE SECTION SHOWN IN PREPARATION POSITION

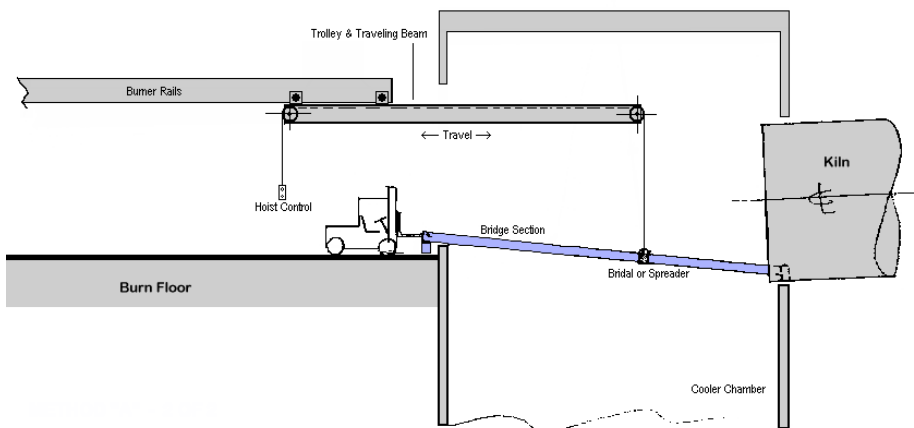
The bridge section of the ramp is fitted with a spreader bar and chockers for lifting and positioning of the bridge section for installation, kiln rotation and removal only. Once attached to the hoist, the spreader bar may remain raised in a relaxed position during the maintenance procedure and used to lift the bridge slightly during kiln rotation. Be sure that bridge deck is clear of all tools and machinery when lifting with the hoist.



BRIDGE SECTION IN POSITION

Method C: Overhead Trolley

Similar to Method B, Method C utilizes a trolley with a cantilevered beam installed on the burn tube overhead rail system. The beam and hoist hold and stabilize the weight of the long or heavy bridge section while the fork lift pushes it safely into position.



BRIDGE SECTION IN POSITION

Suspension from the burn tube itself is possible if it is determined that the tube will support the weight of the Ramp.

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