



Mobile Equipment Assisted “Sling-In” Bridge Loading System

1. The bridge hoist is located on top of the cooler on the center line of the kiln. Prior to moving the bridge into position the hoist load line must be dropped thru the cooler roof and brought out to the door. (The hoist load line must be located approximately 1/3 of the way from the sill of the cooler to the cold work point of the kiln.)
2. The bridge section of the ramp system can be moved by hand into loading position cantilevered into the cooler thru the door opening and over the cooler door sill.
3. At this point the forklift must be positioned at the rear of the bridge and the bridge must be attached to the fork lift for hold back capabilities.
4. With the mobile equipment holding the bridge section back and the hoisting sling attached to the forward lugs the and the hoist load line, the bridge can be raised to allow the front casters to clear the sill. Once clear the bridge section may be swung into the kiln by pushing with the mobile equipment.

If mobile equipment is not available, the bridge can be loaded by attaching a mechanical pulling hoist (come-a-long) on each side of the cooler door frame and to the sill end of the bridge. Once the bridge is pulled into place another hoist can be used to lift the sill end for installation of the pedestal.

5. Once pushed into the correct position the pedestal may be installed on the burn floor under the back end of the bridge. The bridge may now be lowered and positioned so that the back end can be bolted to the pedestal and the front end wrapper rests inside of the kiln on the refractory/castable.
6. With the bridge lowered and secured in place, both the mobile equipment and lifting sling can be unattached.
7. Next install and secure the lead up ramp section, as well as, the anti-fall guards.
8. The nose section is the last component to be installed prior to using this system.
9. If it is required to rotate the kiln it is not necessary to remove the bridge, just raise it several inches as follows:
 - a. Remove and set the nose on the bridge.
 - b. Attach lifting sling to the rear lugs on the bridge. (neutral straight lift)
 - c. Using the hoisting system raise the bridge (without detaching from the pedestal) so that there is a 3"-4" of clearance between the bridge from wrapper and the kiln.
 - d. It is not necessary to loosen or remove the pedestal bolts when lifting the bridge for kiln rotation.

NOTE: Do not under any circumstances put anything but the nose section on the bridge when it is raised for kiln clearance

10. System removal is in the reverse order with special attention to having the mobile equipment attached to the bridge before the bridge is lifted with the hoist.