



Taylor Product
Bulletin #OS-3303

Telescoping Bridge on Free Standing Work Station Crane w/ Roll Handling

The Industry: Semiconductor and Related Devices

Product: Free Standing Work Station Cranes with Telescoping Bridge

The Problem: A company that manufactures Solar Panels in Mississauga, Ontario wanted to improve the way their workers loaded 1000 lb rolls of vinyl into a process machine. Their production demands had increased to the point that they needed a second processing center.

The floor area was very congested and there was an overhead venting obstruction associated with the new machine installation that could not easily be modified. A standard Bridge Crane layout would not work as a lifting solution because of this obstruction. Consideration was given to using two jib cranes but that idea was disqualified because it would have meant a two-step lifting operation to handle the rolls.

The Solution: The Company chose to install a Free Standing Work Station Crane with a Telescoping Bridge that cantilevers out approximately 1/3 of the bridge length beyond the runway span. The telescoping bridge's travel allows for reaching around the duct obstruction and achieves a single pick and place lifting operation, streamlining the operation and covering considerably more floor space with only one lifting device. The crane's support columns are positioned beyond the lifting area to keep from obstructing the space near the machine. Workers manually push/pull to position the bridge and telescoping bridge. An electric chain hoist provides the vertical lift. ELS was selected because of their past experience coming up with creative overhead lifting solutions using Gorbelt Crane Systems. Engineered Lifting Systems & Equipment Inc.'s workers were careful during installation to keep from damaging the expensive specialized process equipment in the crowded work area.

