SOLUTION SPOTLIGHT

Omni Metalcraft corp.

ROBOTIC CRATE FILLING STATIONS
NO: 204

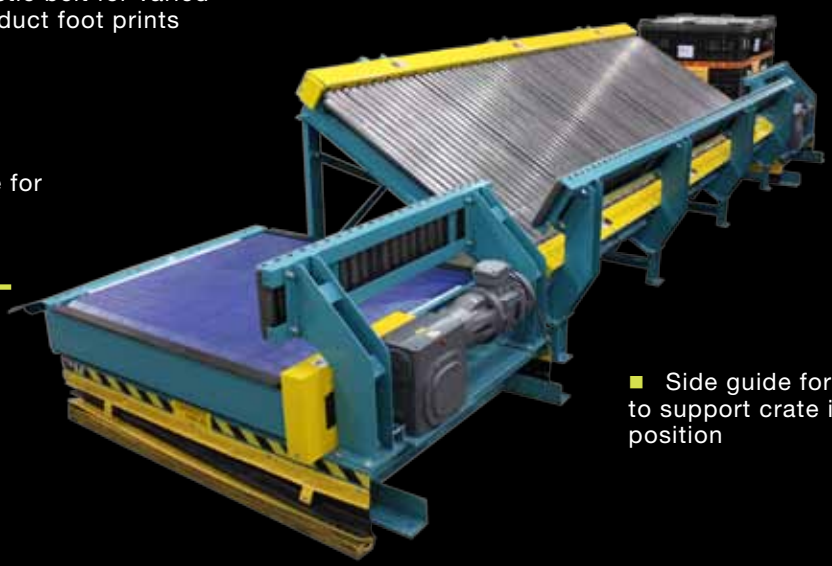
THE APPLICATION: Robotically filling crates with multiple sizes and types of glass components

THE PRODUCT: Tilters with Plastic Belt Conveyor and Zoned Chain Driven Live Roller Conveyor

THE INDUSTRY: Glass Manufacturing

THE NEED: Glass oven tops and doors needed to be crated after manufacture. Prior to loading the glass, a foam insert needed to be placed on the bottom of the crate by an operator. A robot would then stack the glass in the crate. When the crate was full an operator would then top the glass stack with another foam insert. The conveyor needed to maintain the appropriate throughput and handle various combinations of crate sizes, types and orientation.

THE SOLUTION: Omni Metalcraft Corp. provided a pit mounted crate handling CDLR with two tilting stations. A pallet jack could load the crate onto the infeed tilter that would be tilted to approximately 45° to allow an operator to place the foam insert. To save on throughput, the CDLR remained angled and the crate was conveyed to the robotic loading station. Upon filling it went to the outfeed tilter where an operator topped the crate with a foam insert. Here the full crate was returned to a neutral position and picked up by a pallet jack.



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