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This featured packaging cell is a fully automated conveyor system we recently finished for an auto manufacturer in the southeast part of the United States. The customer had very little floor space to work with and wanted to integrate the ability to load and unload the container by forklift while maintaining a safe work environment for the assembly operators while loading the container.

Using two chain driven live roller conveyors and a pneumatically actuated pop-up chain transfer, this system conveys the container to the operator for loading, while leaving room for two empty containers in que. This system was integrated with an overhead ergonomic lifting device that the assembly operator uses to load the crate in the position shown below.

The electrical controls and programming were completed in our shop and then de-bugged. A complete system "run-off" was performed, for customer approval, prior to shipping to the end user. The electrical features included separate panels for high and low voltage, HMI Panel View, pneumatic pop up stops and chain transfer, multiple photo eyes and an emergency pull cord e-stop that was mounted around the entire conveyor system. These features allow the system to handle up to four crates at once while the forklift drivers continue to load and unload the conveyor system.