

Kinesys Automation helps battery manufacturer achieve targeted capital payback!

Major US battery manufacturer was challenged with reducing the labor cost of producing battery lids. The existing work cell contained two plastic battery lid molding machines which made identical products. Labor savings was to eliminate the manual loading of lead battery terminals into each molding machine, and the manual handling of the finished lids into cases and their subsequent palletizing.

Kinesys Automation was identified as the preferred supplier to provide the system to automate this process. Kinesys Automation's Engineers worked with the customers' engineers, technicians and production staff to develop the system specifications and design parameters. The only specific factor was that Kinesys Automation purchase and integrate two industrial robots from the customer's preferred robot supplier.

Once the specifications were established, Kinesys Automation went about the task of designing a system to eliminate the labor. When Kinesys Automation finalized the engineering for this project, a design review was executed, meeting the customer's expectations.



1. Battery terminals are loaded onto the respective infeed conveyors.



2. The terminals proceed into the bowl feeders where they are single filed in the correct orientation.



3. The single lane of terminals are conveyed to the pick and place device.



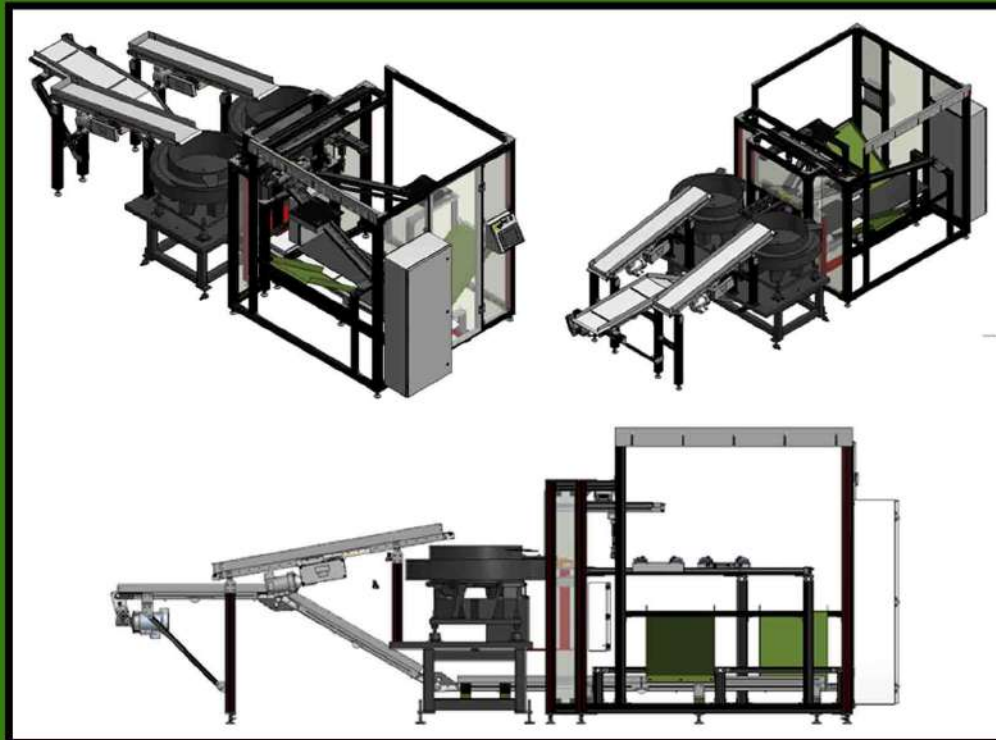
4. The pick and place device selects one terminal from each bowl feeder discharge lane and places it into the waiting transfer pod.



5. The loaded transfer pod transporter moves along its track to the respective robot, whereby the terminals are removed and placed into the molding machine.

This joint effort resulted in:

- Removing all labor from the molding machine's terminal loading area.
- Reducing labor by consolidating it in the box packing and palletizing positions.
- The payback meeting the corporation's guideline of "less than two years".
- Significant safety risks were also reduced or eliminated.



When having difficulties in your assembly or manufacturing process, contact Kinesys Automation for more information about a field proven solution.



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