

CUSTOM SOLUTION CASE STUDY

Electric Vacuum Injection Molding Part Picker



APPLICATION:

Part Handling for Injection Molding

Vacuum grippers are used to remove automobile bumpers, instrument panels, and rockers from an injection molding machine.

CHALLENGE:

Multiple Sets of Tooling Required for Various Automotive Parts Result in High Costs and Excessive Changeover Time

An automotive customer required one set of tooling for each different type of part (bumper, rocker, etc.) with an average cost of \$12K - \$15K per set. Each change in the type of part produced would require a tooling change. The average facility has approximately 150 sets of tooling. The customer sought assistance to create a more universal device to handle the majority of the parts produced in the injection molding machines in its plants across North America.

SOLUTION:

Custom Modular Electric Vacuum Injection Molding Part Picker to Handle a Variety of Part Types

PHD's Custom Solutions team worked with the automotive company's engineers to design a modular device that would pick various types of parts from the injection molding machine. PHD's design and fabrication expertise was exactly what the customer needed to create the ideal part picking system.

RESULTS:

Reduced Tooling Cost and Increased Uptime Due to a Reduction in Tooling Changeovers

PHD's custom modular design handles 61% of the bumpers, instrument panels, rockers, and rear lower vehicle components for the customer's North American operations. The customer has realized reduced costs due to a reduction in the number of tooling sets required, along with a reduction in tooling changeover time.



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