

KELLER SWARTWOOD ENGINEERING, INC.

Automation ▪ Custom Machines ▪ Tooling & Fixtures ▪ Product Development

Project Highlight: Assembly Automation



Hi-Speed Automated Machine inserts 9,000 components per hour into an assembly used in drug discovery and combinational chemistry.



Custom robotic end effector.



Vibratory bowl feeder presents the parts to the robotic end effector at high speeds.

This machine performs assembly operations by inserting components into an assembly. The machine throughput is 9,000 parts inserted per hour. The assembly is used in drug discovery and combinational chemistry.

The machine operator loads the small parts into the vibratory feeder, which orients and presents the parts to the robotic end effector. The end effector picks up the parts from a dead nest, the SCARA robot translates to a given assembly component, and inserts the parts into the assembly. This process is repeated until all assembly components are complete. A touch-screen GUI (graphic user interface) simplifies machine operation.

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