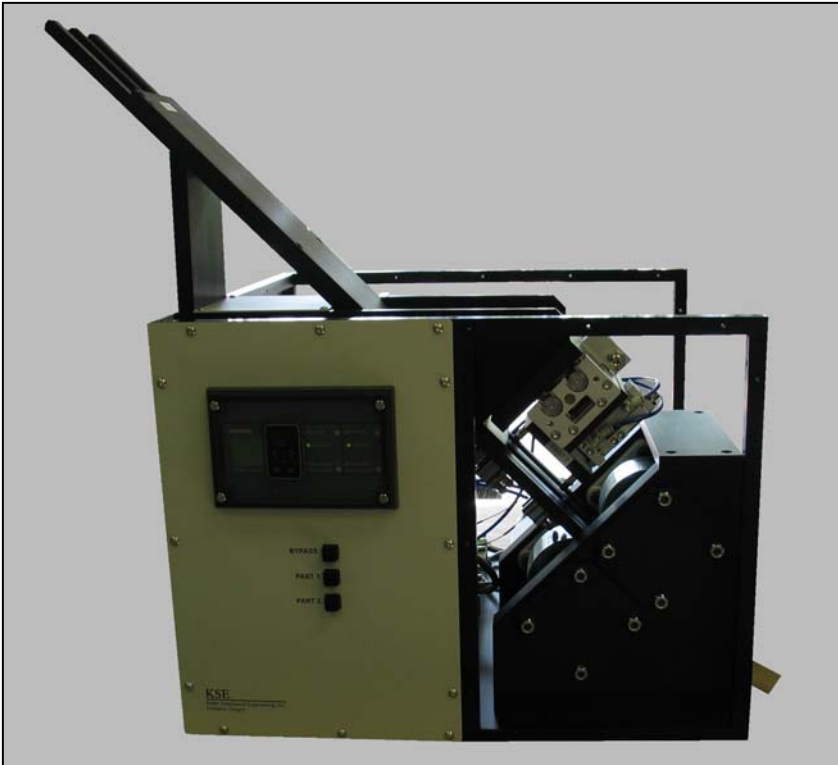


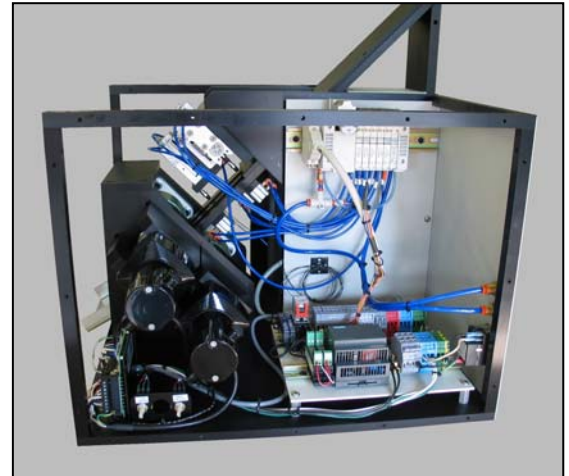
KELLER SWARTWOOD ENGINEERING, INC.

Automation ▪ Custom Machines ▪ Tooling & Fixtures ▪ Product Development

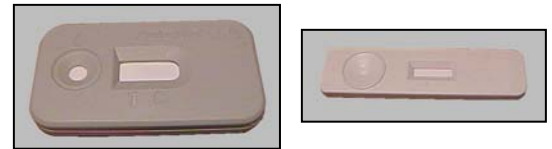
Project Highlight: Biomedical Assembly Automation



Automated Assembly Machine, 30 assemblies per minute, hard - automated pick and place.



PLC controller, motors and drivers, pneumatics controls and devices.



Rapid test devices supported by the machine.

This machine automates the assembly of rapid test devices for medical tests such as fertility, pregnancy, tumor markers, infectious diseases, etc. The machine utilizes a custom designed hard-automated pick and place mechanism to assemble the components of the rapid test device.

The machine operator loads parts into a track at one end of the machine. Sensors in the machine automatically detect the presence of components needed to complete the assembly, and turns on the motors and initiates the assembly sequence. The pick and place mechanism places the components into their correct relative positions. Then the assembly passes through compression rollers to press the plastic halves together and complete the assembly process. The machine is PLC controlled and uses pneumatic and vacuum components, as well as DC motors and drivers. Machine throughput is a minimum of 30 assemblies per minute, or 14,400 assemblies per one 8-hour shift.

KSE

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