

Pharmaceuticals • Nutraceuticals
Cosmetics • Consumer Goods
Diagnostics • Medical Devices



Features

- Vision-Ready FANUC Robots Integrated Throughout the System (as required)
- Automated Pick-and-Place with Grip or Vacuum Tools
- Automated Robotic Assembly
- Clean Room and Class 100 Robot Options
- Full Integration with Parts Feeders, Hoppers, and Conveyors
- Interlocked Polycarbonate Safety Guarding
- Operator Panel with Color LCD Display
- Programmed Controls



ESS Technologies, Inc.
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Robotic Assembly and Kit Packaging Systems



ESS Technologies, Inc. offers innovative solutions for automating assembly and kit-packaging processes for medical devices, diagnostic test kits, and drug delivery devices. ESS design engineers and project leaders work with manufacturers to create an assembly system or kit packaging system to exact product specifications. A FANUC integrator and Strategic Partner, ESS integrates FANUC's full line of multi-axis robots with ESS-designed end-of-arm tooling as well as supporting technology, such as vision systems, line tracking, inspection with automatic reject, and real-time data acquisition.

The robots, along with component feeding systems, are programmed by ESS to perform a wide variety of tasks. These include pick-and-place, collation, machine loading and unloading, inspection and reject. This allows the system to assemble test kits, inspect them, and package them in kits or other secondary packaging. For a total end-to-end solution, ESS integrates secondary packaging equipment, such as cartoners and wrappers, pouching or blister packing equipment, vertical robotic case packers, and robotic pallet cells.

FANUC Robot Models

- Model LR200iD 7kg Payload
- Model M-1iA 0.5kg Payload
- Model M-2iA 6kg Payload
- Model M-3iA 6kg Payload
- Model M-10iA 10kg Payload

Technical Specifications

Item	Specification
Standard Voltage	120VAC, Single Phase, 60Hz
EOAT	Vacuum, Gripper, Hybrid
Guarding	PL-rated, Interlocked Polycarbonate
Size Changeover	10-15 Minutes Typical
Robotic Cell Footprint	Varies by Application



Collation System for Diagnostic Test Kit Bottles



Packing Diagnostic Test Kit Bottles



End Effector for Robotic Assembly of Drug Delivery Device



Vision Inspection Camera for Diagnostic Test Kits



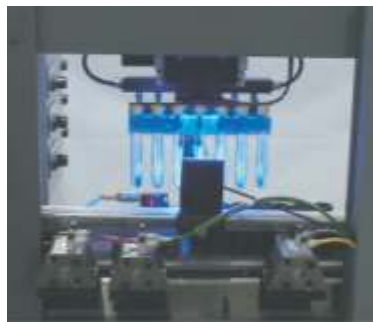
Robotic Infeed for Diagnostic Test Kit to Pouching Machine



Robotic Parts Handling for Assembly of Drug Delivery Device



Diagnostic Test Kit Assembly Stations



Diagnostic Test Kit Inspection Station



Loading Test Kits Components in Blisters



Cartoning Blisters of Test Kits

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