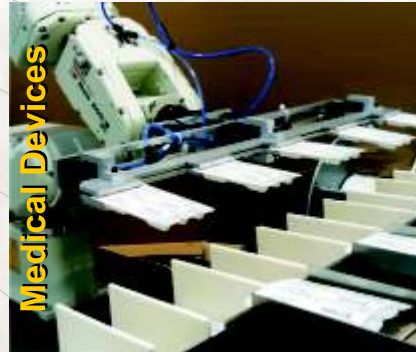


Custom Designed Medical Device Assembly Systems



ESS Technologies, Inc. offers innovative solutions for the automated assembly of medical devices, diagnostic test kits, drug delivery devices, etc. ESS design engineers and project leaders work with medical device manufacturers to create an assembly system to exact product specifications. The systems use state-of-the-art technology, including integrated robotics, vision systems, line tracking, inspection with automatic reject, and real-time data acquisition.

As a FANUC Authorized Integrator and Strategic Partner for the secondary packaging of pharmaceuticals, ESS has expertise in integrating FANUC robotics throughout the assembly process, creating a system that offers high speed performance, high reliability and proven production speeds. The assembly system incorporates next-generation vision-ready FANUC robots, allowing the addition of cameras for visual inspection and line tracking.

For a total end-to-end solution, ESS integrates secondary packaging equipment, such as Bergami cartoners and wrappers, pouching or blister packing equipment, vertical robotic case packers, and robotic pallet cells.

ESS
Technologies, Inc. 
Packaging Machine Design & Integration



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Reliability and Performance

Benefits of ESS Turnkey Design

- Design Expertise for Complete End-to-End Solutions to Meet Any Requirement
- Integration of all Equipment Provided by ESS
- Dedicated Project Managers
- Technical Support and Field Support Available
- Authorized FANUC Robotics Integrator
- FANUC Strategic Partner for Secondary Packaging of Pharmaceuticals and Medical Devices
- Distributor for Bergami Packaging Solutions

System 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 Lexan Guarding
- Operator Panel with Color LCD Display
- Programmed Controls

Options

- Inspection with Automatic Reject
- Robotic Machine Loading/Unloading
- Data Acquisition/Validation
- Vision and Line Tracking
- Integrated Bergami Cartoner
- Integrated Bergami Wrapper
- Robotic Case Packing
- Robotic Palletizer Cell



Vision Inspection Camera for Diagnostic Test Kits



Robotic Infeed for Diagnostic Test Kit to Pouching Machine



End Effector for Robotic Assembly of Drug Delivery Device



Robotic Parts Handling for Assembly of Drug Delivery Device