

Pharmaceuticals • Nutraceuticals
Cosmetics • Consumer Goods
Diagnostics • Medical Devices



Features

- Economical Design Base Price Under \$100K
- Custom End-of-arm Tool (EOAT) Erects and Loads 5-6 Cases Per Minute
- Small Footprint Integrates Easily with Existing Case Sealing Equipment
- Automation Reduces Repetitive Motion Injuries for Personnel
- Increase Productivity and Reduce Scrap and Rework
- Integrates Easily with Off-the-Shelf Track & Trace Systems



ESS Technologies, Inc.
3160 State Street
Blacksburg, VA 24060
(540) 961-5716 • (540) 961-5721
info@esstechnologies.com
www.esstechnologies.com

Model CEL5-E Robotic Case Erector / Loader / Closer



CEL5-E with FANUC M-10iA Robot

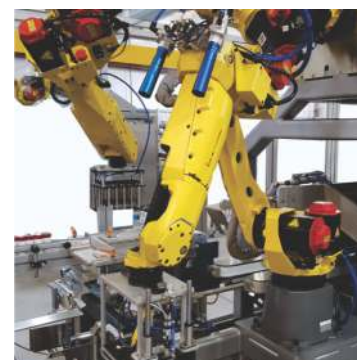
Now with Track & Trace Serialization

The ESS Technologies, Inc. Model CEL5-E Economical Robotic Case Erector / Loader / Closer provides a simple and flexible solution for manufacturers looking to automate their end-of-line packaging processes. The system may be ordered as a top load case packer only that easily integrates with existing case erector equipment and loads up to ten cases per minute, or the custom end-of-arm tool (EOAT) may be designed to erect cases and seal the case bottom prior to loading at a rate of 5-6 cases per minute. The system can handle a wide range of products. The compact footprint of the robotic cell integrates easily into existing lines to automate manual packaging processes, allowing manufacturers to increase productivity and reduce injuries costs associated with repetitive motion injuries. The CEL5-E includes:

- FANUC multi-axis robot (model varies by application)
- ESS-designed end-of-arm tool (EOAT) that changes in minutes
- Product infeed and case conveyors (varies by application)
- Controls and programming
- PLe-rated safety guarding

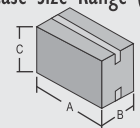


Erecting an RSC Case

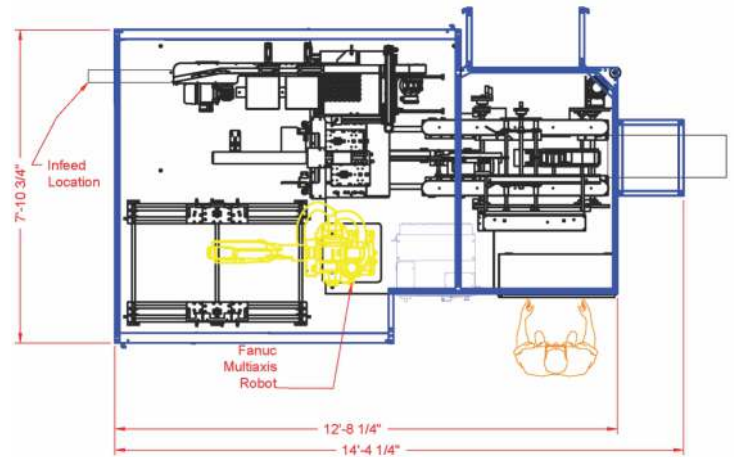


Dual Robot CEL5-E for Bottles with Topserts

Technical Specifications

Item	Specification	
Case Size Range (mm) 	<u>Min.</u>	<u>Max.</u>
	A	150 500
	B	100 350
	C	100 250
Speed	Load: 10cpm; Erect & Load: 6cpm	
Standard Voltages	208V, 240V, 480V, 3-Phase, 60Hz	
Size Changeover	15 Minutes Typical	
Compressed Air Consumption	7-9 SCFM	

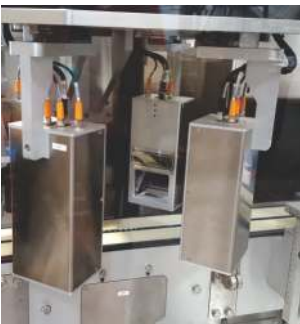
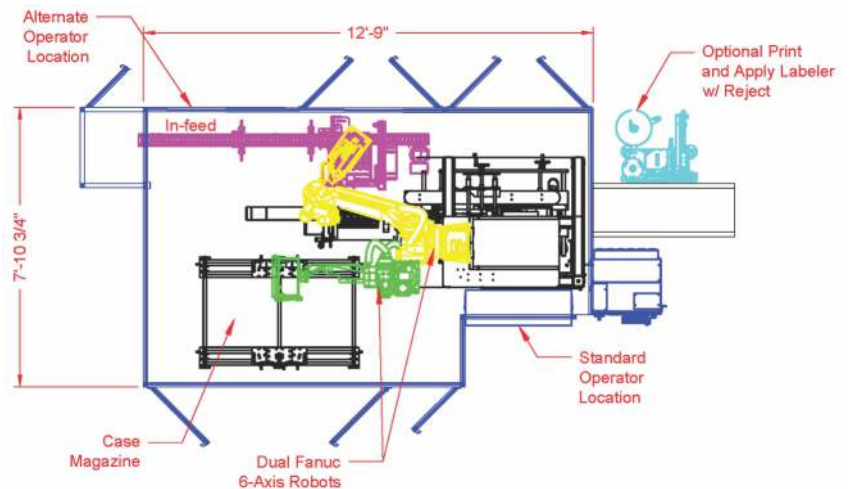
Single Robot CEL5 (Typical Layout)



Options

- Track & Trace Data Collection
- Case Labeling
- Leaflet Insertion
- Various Product Infeed & Collation Features
- Checkweigher

Dual Robot CEL5 (Typical Layout)



Track & Trace Cameras at Infeed



Integrated Serialization Overhead Camera



Top Case Closer and Sealer



Integrated Serialization Case Labeler

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Packaging Machine Design & Integration

