

Pharmaceuticals • Nutraceuticals

Cosmetics • Consumer Goods

Diagnostics • Medical Devices



Features

- Integrated FANUC Collaborative Robot
- ESS-Designed EOAT
- Infeed Conveyor
- UL Certified Panel
- Ultra Compact Robot Controls
- Handles Cases, Bags, Trays, Bundles, Bottles
- Integrates with Serialization Systems from OEMs



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Collaborative Robotic Pallet Cell



Integrates with Serialization Systems

ESS Technologies, Inc. Collaborative Robotic Pallet Cell incorporates a FANUC CR-35iA robot with ESS-designed vacuum style end-of-arm tooling (EOAT) to create a compact, high performance palletizing cell for single or dual pallet configurations. The robot is designed to operate in close proximity to humans in a shared workspace without the need for safety fences. Featuring twenty-four (24) precision sensors that cause the robot to stop all motion when it comes in contact with an object or person, the collaborative technology eliminates the need for safety guarding and greatly reduces the footprint of the robotic cell. The robot offers a payload of 35kg and a reach of 1,813mm.

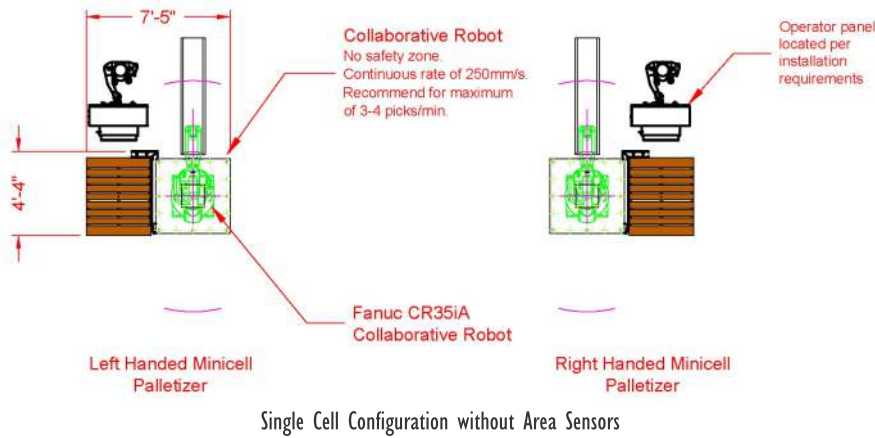
The green robot cover is padded to reduce impact forces and pinch points by providing a soft barrier between a human operator and a robot arm, and the robot may be pushed away from the operator as needed. ESS designs the robot EOAT to securely pick and place cases in a pre-programmed pattern. The system comes complete with the robot, the FANUC A-Cabinet robot controller, EOAT, and infeed conveyor. FANUC's PalletTool Turbo software is pre-installed on the robot to simplify operation. Product changeover typically occurs in 5-10 minutes.



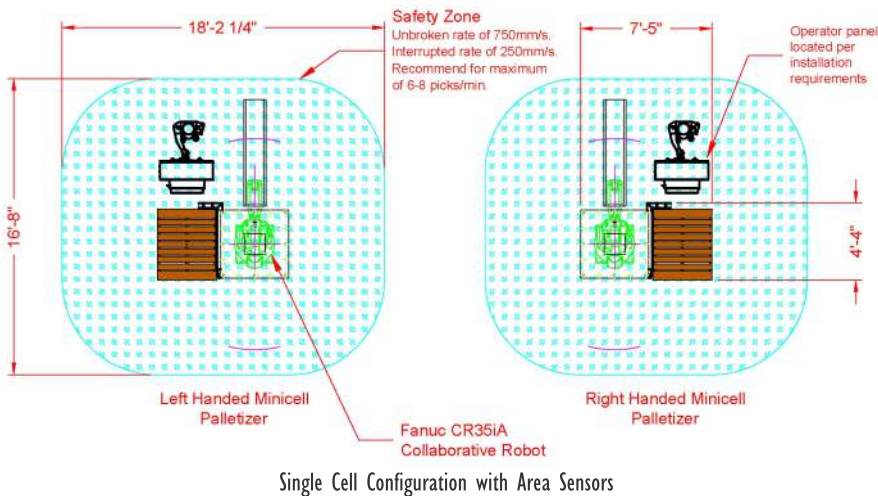
Technical Specifications

Item	Specification
Speed*	2 Cycles Per Minute w/o Area Scanners 5-6 Cycles Per Minute w/ Area Scanners
Payload Capacity	35kg (77lbs.)
Robot Reach	1,813mm (71")
Standard Voltages	208V, 240V, 480V, 3-Phase, 60Hz
Pallet Size	Accommodates all std. pallet sizes.
EOAT	Vacuum, Gripper or Hybrid
Changeover	5-10 Minutes

* Optional area scanners allow the robot to operate at a higher rate of speed. The EOAT may also be designed to pick multiple cases with each cycle. Contact ESS Technologies, Inc. to discuss specific application details.



Single Cell Configuration without Area Sensors



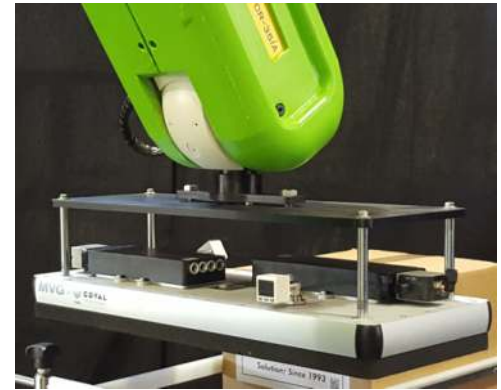
Single Cell Configuration with Area Sensors

Options

- Dual Pallet Cell Configuration
- Stainless Steel Floor-mounted Pallet Guides
- Safety Area Scanners for Higher Speed Operation
- Pallet Magazines for Robotic Pallet Placement
- Deck & Tier Sheet Dispensing
- Integration with Serialization Systems



Dual Pallet Cell Configuration



ESS-designed End-of-Arm Tooling



Floor-mounted Pallet Position with Pallet Sensor

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