

RCE

Robotic Random Case Erector



Increased global competition is driving leaner operation in today's manufacturing facilities. To gain efficiencies, more companies are incorporating disruptive technologies, such as robotics, across their plant floors. A recent product innovation introduced by Combi Packaging Systems and Motion Controls Robotics introduces robotic technology into end-of-line packaging operations.

The RCE Robotic Random Case Erector combines a FANUC M20iA/20 6-axis robot with multiple case magazines and a bottom flap folder with integrated 3M™ tape head. The FANUC robot has a flexible end of arm tool to pick and erect multiple cases sizes, eliminating costly changeover downtime. The standard system features three dual Combi gravity case magazines, accommodating six different case sizes.



RCE Random Case Erector

Sequence of Operation

Flat cases stand vertically in each magazine. On demand, the robot extends and, using vacuum, extracts a case from the appropriate magazine. The case is then formed using a squaring arm integrated in the end of arm tooling. The robot moves the opened case across the bottom flap folder to close both the major and minor flaps. Finally, the case is advanced across the tapehead and is bottom sealed with pressure sensitive tape.



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Random Case Erector Includes:

- FANUC M20iA/20 6-axis Robot
- Flexible End of Arm Tooling (EOAT) with Vacuum and Dropped Case Detection
- Dual Gravity Case Magazines hold two cases each
- Bottom Flap Folder with 3M™ Tapehead
- Allen-Bradley™ PanelView™ Plus 1000 Touchscreen
- Fixed Robot Base, anchored to floor
- Programming for Robot, PLC/PMC, HMI and Vision
- Robot Perimeter Barrier Guarding with Safety Interlocking Doors
- On-Site Training and Support

Model	Case Size Min (LxHxW)	Case Size Max (LxHxW)	Speed
RCE	8" x 5" x 4" (203x127x102mm)	20" x 13.5" x 19" (508x343x483mm)	up to 15 cpm



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