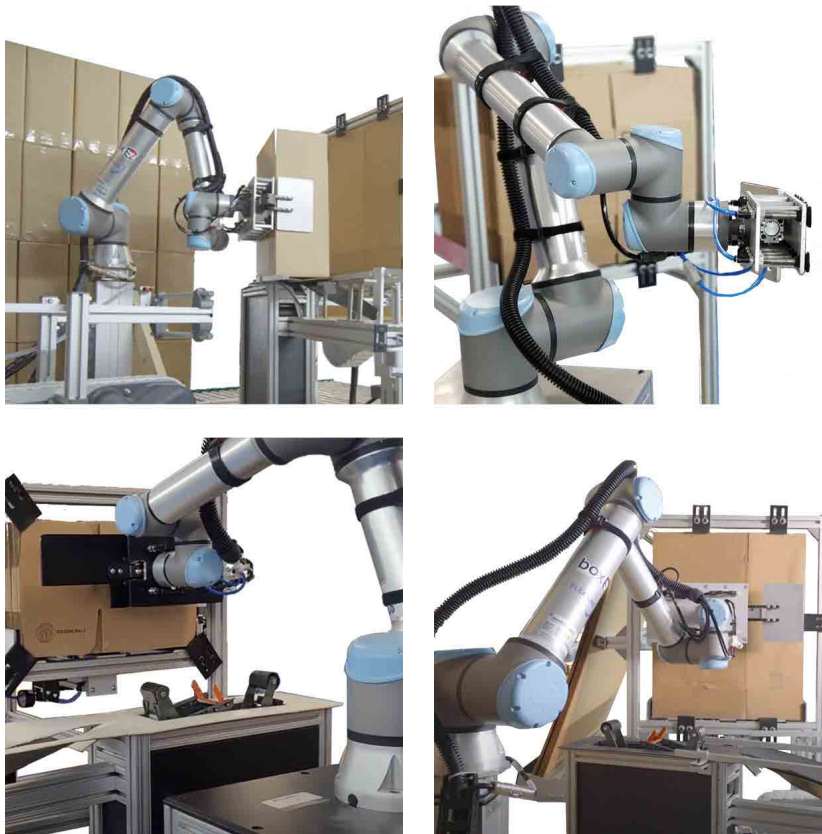# FLEX-LINE AUTOMATION

boxEZ

The boxEZ robotic case erector utilizes a Universal Robot to efficiently erect multiple sizes of boxes with a custom-designed end effector. By pulling unopened boxes from an automatic box magazine and forming and taping them, we ensure a seamless operation. And, by using a collaborative robot, we keep the unit's footprint small while maintaining the flexibility to erect a range of box sizes.

Our in-house design team customizes both the box magazines and the end-of-arm tooling based on your specific box size requirements. Plus, our end-of-arm tooling can serve a dual purpose, functioning as a robotic palletizer or case packer if your production rate allows.

System speed is dependent on the layout and box size, with standard units achieving rates of 6-10 per minute. The standard robot case erector uses a forming and taping table and manual taper, but we can increase throughput by integrating an automatic taper into the system.

Designed for continuous operation, the boxEZ can also replace boxes on demand or integrate with warehouse management systems.

Features:

- Flexible end-of-arm tooling design can be used to case pack or palletize if the cycle time allows
- Collaborative and compact, no guarding is required
- Automatically replace boxes in a queue
- Run continuously, or replace on demand
- Increased efficiency in shipping operations
- Low operating cost, and fast ROI
- Easy to install, configure, and redeploy as needed

Specifications:

- **Software version required**
  E-Series Polyscope 5.12+

- **Dependencies**
  The cobots run on 120V, and require an external air supply (10 -15 cfm at 90 psi).

- **Dimensions**

  Dimensions vary based on customer's requirements. Customer box sizes and number of magazines greatly impact skidded dimensions.

  What's in the box?

  - Customized vacuum end of arm tooling

  - Customized stand that forms and bottom tapes boxes

  - Customized box magazine

  - All necessary hardware, electrical, and pneumatic connections

- **License type**
  One-time purchase