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R-LINE ROBOTIC UNSCRAMBLER ORIENTORS FOR PLASTIC BOTTLES



Flexible, high efficiency robotic plastic bottle unscrambler orientors

R-Line robotic unscrambler orientors are the latest innovation for automated bottle unscrambling, bottle orienting and puck insertion from Pace Packaging. R-Line is a new robotic bottle unscrambling and orienting system and it joins the Pace family of unscramblers and orientors which includes Omni-Line and Combo-Line systems.

R-Line robotic systems incorporate a linear multi-lane system that feeds up to eight rows of aligned containers on ribbed belts to two robotic cells. By supplying aligned containers to the two robot system, R-Line can deliver speeds up to 240 cpm. Current robotic systems can require up to six robots to reach this speed range.

Pace R-Line robotic unscrambling orienting systems are capable of unscrambling and orienting round, oval, contoured, square and rectangular PET, HDPE, PP, PS, and PVC bottles and inserting them into pucks for efficient filling, capping and conveying. R-Line systems are also capable of placing containers directly onto conveyors.

R-Line unscrambler orientors are ideal for containers that require puck-based container handling systems. R-Line unscrambler changeovers are recipe driven and their universal end-of-arm tools are designed for gentle, scuff and scratch free container handling.

FEATURES AND BENEFITS

- Two-robot configuration delivers speeds up to 240 cpm – Innovative multi-lane container infeed system enables R-Line systems to do the work of up to six robots required by competitive systems
- Virtually unlimited container compatibility R-Line unscrambler orientors can run a virtually unlimited variety of containers with and without handles from 8 fl. oz. (236mL) to 32 fl. oz. (946 mL)
- Versatile operation System capable of inserting containers into pucks or placing them directly onto the conveyor
- Universal end-of-arm tooling R-Line end-of arm tooling features a universal design that accommodates a virtually unlimited range of container styles, shapes and types
- Fast, push button, recipe driven changeovers Container changeovers are completed via the HMI in two minutes or less; universal end-of-arm tooling does not need to be removed and replaced as part of the changeover process
- Scuff & scratch-free container handling Bottle infeed system and universal end-of-arm tooling are designed to prevent and eliminate scuffs and scratches
- Space efficient, linear technology and footprint Uses up to 30 % less floor space than competitive systems requiring three or more robots



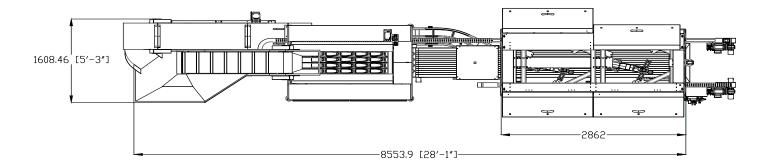
PACE R-LINE ROBOTIC UNSCRAMBLER ORIENTORS FOR PLASTIC BOTTLES

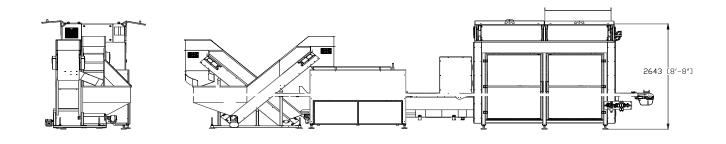
TYPICAL PRODUCT SPECIFICATIONS

Speeds (Up To)	240 cpm
Container Materials	HDPE & PET
Container Sizes	8 oz. (236mL) - 32 oz. (946 mL)
Robot	ABB
Robot Movement	6-Axis
Power Supply	480V / 3 phase / 60 Hz , 30 Amps
Nominal Footprint Dimensions	28'-1" x 8'-8" x 5'-3"

Container Types	Bottles with or without handles
Container Shapes	Rounds, Rectangles, Squares, Ovals Off-center neck bottles, handle bottles, trigger spray bottles, symmetrical bottles with in-mold labels and center neck non-symmetrical bottles.
Controls	Allen-Bradley Siemens
End-of-arm Tooling	ProMach Performance Services
Electrical Enclosure	NEMA 12

CONFIGURATION





OPTIONS

- · Bottle exit conveyors Merge inline, exit right or exit left
- · Puck loop conveyors
- · Puck lane diverting systems
- · Puck merge systems

- · Custom puck designs
- · Bottle laser coding
- · Bottle inspection & rejection systems
- · Recommended Spare Parts Kit

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