



VersaSort™

Robotic Unscrambling & Orienting System

Engineered for versatility, VersaSort is a robotic unscrambler solution capable of unscrambling market-standard PET, HDPE, PP, PS, PVC including thinner materials and soft touch finishes at speeds up 340 containers per minute (CPM). It is available in configurations of 1 to 3 robots.

Ultimate Container Handling Flexibility

Our machines are capable of running containers ranging from 10mL to 9.5L simultaneously with the same tooling, reducing changeover frequency by 25% compared to systems with mechanical grippers.

Cutting-Edge Transfer System

Our patent-pending transfer system uses suction and minimal air flow to hold containers, protecting them from crushing, scuffing, or scratching, particularly thinner materials, and containers with special finishes like soft touch.

Industry-Leading Throughput

Integrating high-speed robotics with its in-motion transfer system, it delivers one of the fastest throughputs per robot unit in the market:

- o 1 robot delivers speeds up to 120 cpm
- o 2 robots deliver speeds up to 230 cpm
- o 3 robots deliver speeds up to 340 cpm

Integrated Orienting System

Integrating Pace's BAO orients, the system delivers a dependable, cost-effective orienting solution that keeps robots running at maximum speed, achieving higher speeds, and eliminating complexity of systems that use robots for orientation.



TYPICAL PRODUCT SPECIFICATIONS

Material & Container Types	PET, HDPE, PP,PS, PVC, PCR. Includes thinner materials, soft touch finishes and light weight bottles.
Container Sizes	10mL to 9.5L with the same tooling.
Container Shapes	Off-center neck bottles, handle bottles, trigger spray bottles, symmetrical bottle with in-mold labels, center neck non-symmetrical bottles, and more.
Controls Options	Beckhoff and Allen-Bradley.
Robotics	ABB Delta Robot.
Electrical Enclosure	Stainless steel. Integrated into machine frame.
Orientation	90, 180 or 270 degrees.
Cycle Speed	1 robot delivers speeds up to 120 CPM 2 robots deliver speeds up to 230 CPM 3 robots deliver speeds up to 340 CPM
Conveyor	Dorner Commercial Products.

PRODUCT OPTIONS

- **Integrated Hopper** – 180 degree orientation available to best fit desired line layout.
- **Orientation** – BAO-IR Orienting System.
- **Automatic Changeover** – One-touch, push-button bottle format changeover (bottle matrix required).
- **Automatic Speed Shift** – Enables unscrambler to modulate production speed based on line conditions.
- **Pucking** – Ready for Puck integration.
- **Additional Hopper Capacity** – Additional or auxiliary hopper can be easily added to expand capacity.
- **HMI** – Door Mounted 15", full color display.
- **Down Bottle Detection & Rejection System** – Helps reduce downstream container jams.
- **CE Certification & Mark** – Required in certain countries or regions.
- **Recommended Spare Parts Kit** – Includes recommended inventory for wear and spare parts.

Lowest Cost of Ownership

Mechanical components like grippers are highly susceptible to damage and can cost up to three times more to replace than the components in our innovative, vacuum transfer system. Designed with off-the-shelf and commercially available components, replacement parts are readily available to all customers.

Intuitive HMI Controls

VersaSort features an intuitive, user-friendly, and interactive interface that provides a range of advanced controls and settings to ensure seamless production and easy adaptation to various container types. To ensure production runs at intended speeds, real-time data on bottle count, average CPM, reject counts, and machine part visualization is available.

Ready for Puck Integration

Our Machines are ready for puck integration, featuring puck loop conveyors, lane diverting systems, and merge systems, along with custom puck designs tailored to fit your needs.

