



F&C

FILLING & CAPPING

COMBO-LINE ORIENTORS FOR PLASTIC BOTTLES



Proven, Dependable Linear Bottle Unscrambling & Orienting Technology for Speeds Up To 450 bpm

With over 4,500 Omni-Line and Combo-Line systems in operation around the world, Pace is the recognized leader in dependable and versatile linear bottle unscrambling and orienting systems.

Pace Combo-Line systems are capable of unscrambling and orienting PET, HDPE, PP, PS, and PVC bottles including symmetrical bottles, off-center neck bottles, F-style bottles with handles, trigger spray bottles, pinch grip bottles, and symmetrical bottles with in-mold labels or embossing.

Our unscrambling orienting systems run containers as small as .33 oz.(10mL) and as large as 2.5 gallons (9.5L), and a single machine can run a virtually unlimited range of container geometries and sizes.

The Combo-Line series of unscrambler orientors includes four models capable of top speeds from 180 to 450 bpm with rotation capabilities of 90°, 180° and 270°. This range of models assures that manufacturers of all sizes in a wide range of industries can choose a model ideally suited to their requirements and their budget.

Combo-Line unscrambler orientors are used in dozens of industries and they are widely used in personal care, ready-to-drink beverage, bottled water, automotive, laundry, household cleaning and container decorating product categories.

FEATURES AND BENEFITS

- **Floor level, low profile linear design** – Easy machine access from plant floor; no elevated platforms or ladders required to access key machine components
- **Versatile container compatibility** – Combo-Line unscrambler orientors can run a virtually unlimited variety of containers with and without handles from .33 fl. oz. (10mL) to 2.5 gallons (9.5L)
- **Fast, toolless changeovers** – Bottle format changeovers completed in fifteen minutes or less
- **Flexible, efficient change parts** – Multiple similar geometry containers can run on same set of change parts reducing changeover time to zero
- **Scuff & scratch-free container handling** – Linear design minimizes bottle contact with hard, abrasive surfaces that scuff and scratch plastic containers
- **Space efficient, linear and footprint** – Uses significantly less floor space than systems requiring platform access to elevated machine components

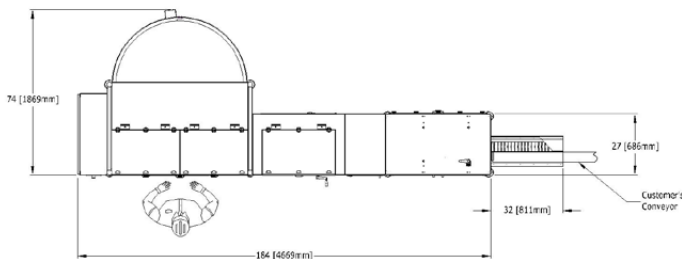
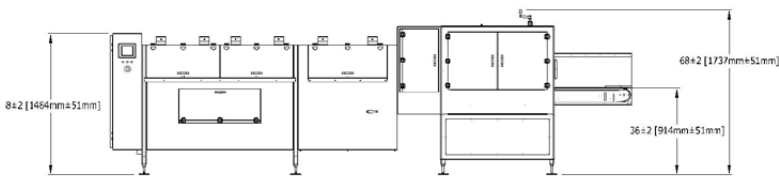
TYPICAL PRODUCT SPECIFICATIONS

	Low Speed	Mid Speed	High Speed	Three Stage Orientor	GeoRail Orientor	Washdown / Full Bottle
Speeds (Up To)	180 bpm	200 bpm – 400 bpm	450 bpm	200 bpm	450 bpm	
Container Sizes (Min-Max)	1.7 oz. (50 mL) - 2.5 gallons (9.5 L)	0.33 oz (10 mL) - 2.5 gallons (9.5 L)				
Container Materials	PET, HDPE, PP, PS, PVC & Spiral wound fiber					
Container Shapes	Rounds, Rectangles, Squares, Ovals					
Controls	Allen-Bradley or Siemens					
Frame	Stainless Steel					
Power Supply	208V – 240V, 380V – 400V, 440V – 480V					
Electrical Enclosure	NEMA 12 (IP 54) Standard / NEMA 4 (IP 66) Available Option					
Compressed Air	N/A	No open air jets; CFM Negligible				
Nominal Footprint Dimensions	High speed model dimensions: 184" (4669mm) x 58" ± 2" (1484mm ± 51mm) x 27" (686mm)					

CONFIGURATION

High Speed Combo-Line Orientor

Contact us for Combo-Line low speed, mid speed, three stage orientor, GeoRail orientor and washdown full bottle footprint drawings.



OPTIONS

- Camera Based Vision System For Container Orientation Detection – Provides precise, consistent orientation for all container geometries
- Slow Speed Discharge – Reduces bottle speed at discharge allowing customer conveyor to run at lower speeds
- Power Ramp – Belt driven bottle stand-up system for tapered containers and high speed operation
- Ionized Air Rinse Station – Removes dust particles from bottles
- Interlocked Polycarbonate Sorting Bowl Cover – Shields bottles from dust and debris
- Down Bottle Detection & Rejection System
- 3-Stage System For Up To 270° Orientation
- Servo Driven Container Turning Station
- Swing Arm Mounted HMI – Provides convenient access to controls from multiple locations around the machine
- Expanded Main Electrical Panel – Stainless Steel or Painted Mild Steel
- UL 508 Certified Panels
- CE: Certification & Mark
- Recommended Spare Parts Kit