

Robotic

BOTTLE UNSCRAMBLER

Advanced Container Handling for Lines with Complex Bottles

Pick and Place Precision

- Parallel kinematic multi-axis robot
- Position bottles onto conveyor or into stabilizing pucks

Integrated Vision System

- Dual overhead cameras to optimize robot motion

Complex Bottle Shapes

- Ideal for Personal Care products, Consumer goods, Tottles

Compact Footprint

- Integrated Hopper; System fully enclosed on all sides
- Integrated Electrical Enclosure
- Significantly smaller footprint than comparable solutions

Advanced Controls & Safety Package

- 15" HMI touch screen; Pivotal HMI mounting arm
- GuardLogix PLC with I/O link devices

More Robots; More Speed

- Configure with multiple robots to meet speed capacity

Greatly Reduce Setup Times

- Limited Changeover points greatly reduce setup times
- Less maintenance and fewer wear parts than traditional sorting



★★★★★
MADE IN THE USA
Since 1969

www.omegadesign.com

Tel: 1 (610) 363-6555

OMEGA
DESIGN CORPORATION

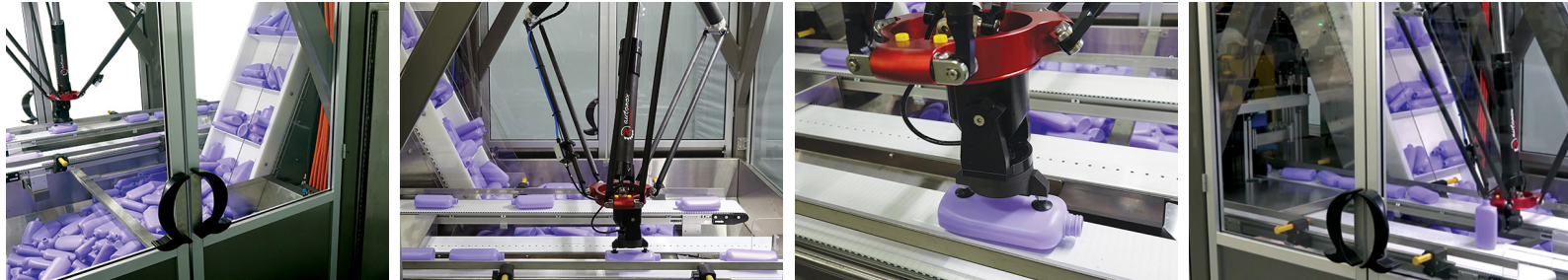
Robotic Bottle Unscrambler

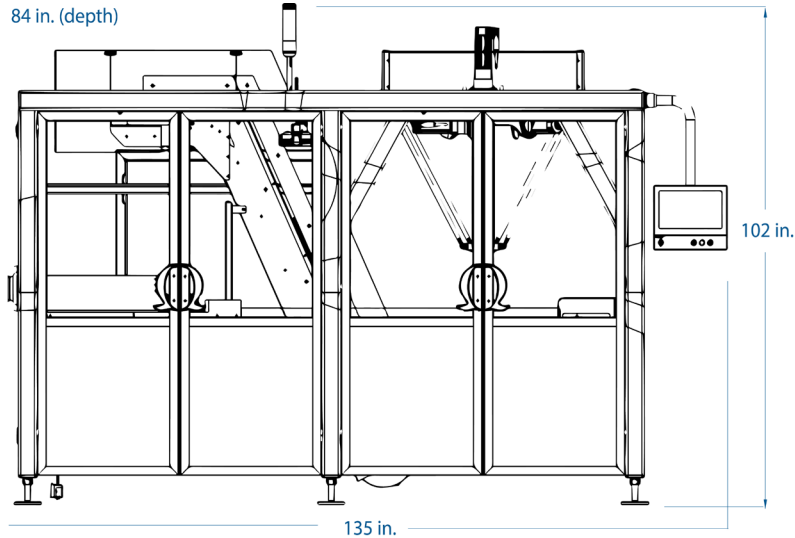
Our Value Promise
www.omegadesign.com/value



Fully automatic system features a parallel-kinematic, multi-axis robot to separate, orient and position bottles onto a conveyor or into stabilizing pucks.

Integrated Hopper system delivers bottles to the Lane Diverter, where bottles get presented onto one of two Vacuum Conveyors. A multi-axis robot with a vacuum cupped end effector picks a bottle off a conveyor and orients it upright onto a discharge conveyor or into a stabilizing puck. Prior to picking, an overhead vision system transmits bottle information to optimize Robot motion. Unpicked bottles recirculate back into the Hopper bin.



Frame Construction	Steel; Powder coated
Hopper	26 Cubic Foot bin capacity; Hopper Low Level Bottle Detection
Robot	Parallel Kinematics; 3 Translatory Degrees of Freedom (X,Y,Z); 1 Rotational Degrees of Freedom (a,β,y)
Configuration	Configure for left sided discharge or right-sided (as shown); Configure with additional robots (requires frame width extension)
Speed	Up to 60-75 Bottles per minute per robot
Controls Package	15" Touch screen with GuardLogix PLC
Safety Package	Power Lockout Devices; E-Stop; Safety Relays; Clear Polycarbonate Guards; Locking Guard Interlocks
Electrical	480 VAC, 3-PH, 50/60Hz; Fully Wired
Pneumatic	80 PSIG
Size	135" (L) x 84" (D) x 102" (H) 

Reminder Ask about our excellent track record of on-time deliveries and industry-leading FATs. Better yet, read what our clients have to say: www.omegadesign.com/testimonials

