

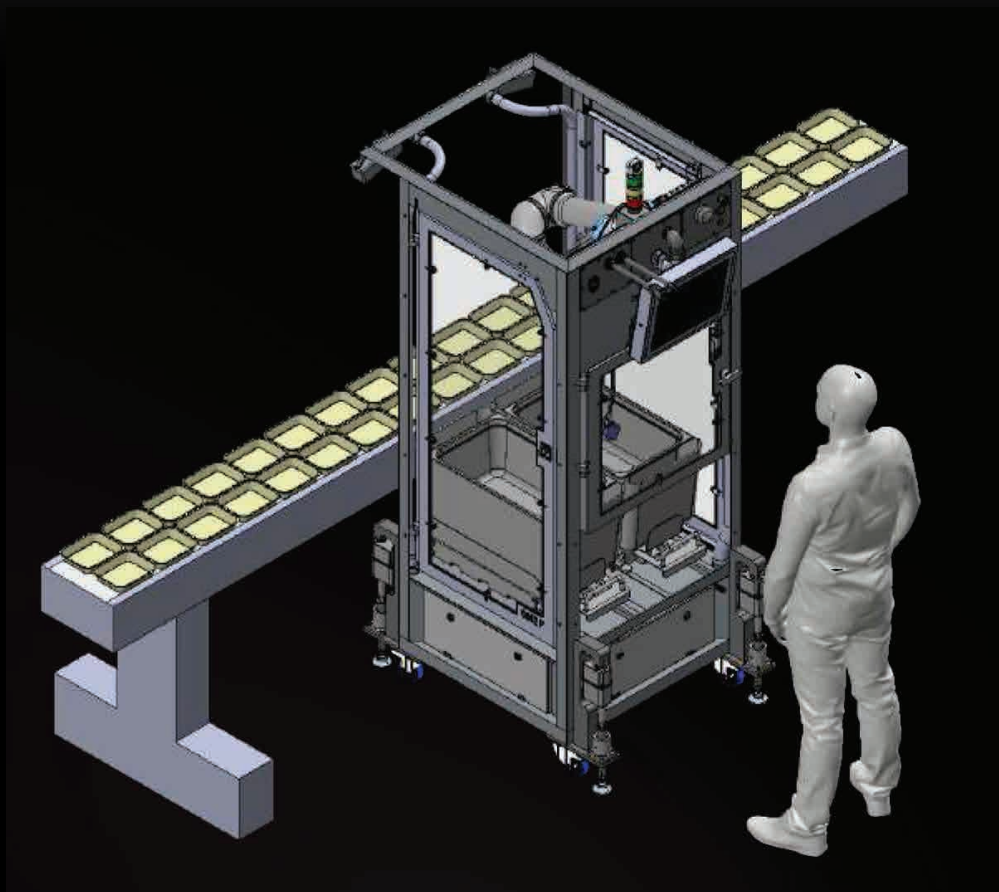
THE PLATINUM PACKAGING GROUP

PLAT*Machinery*

PPG *ROBO 4.0*

Intelligent Food Automation

PPG Robotic' collaborative robot system automates the manual food assembly process for ready-to-eat meals thereby helping increase yield.



Features

Flexible Deposits

- Capable of depositing varying ingredient portions* in any container, in any placement, and on any conveyor.

*less than 4 lb

Increased Product Yield

- Increase labor productivity resulting in an improved bottom line.
- Reduces material usage with less variability than human workers; resulting in greater product output.

Food-Safe Design

- Intuitive design allows for easy and efficient cleaning using low-pressure washing and COP tanks.
- Designed and manufactured in accordance with IP67 standards with food-grade stainless steel and Delrin, including use of angle iron frame material.

Human-Safe Design

- UR5e collaborative robot arm and ISO-15066 compliant design mitigates risks and improves worker safety.

Intuitive Touchscreen Display

- Accessible human-readable text interface that's easy to follow, understand, and is clearly recognizable by users.
- Intuitive ingredient refill design decreases downtime and increases profitable uptime.
- Automated processes reduce changeover time to less than 5 minutes.

Adaptable to Existing Infrastructure

- Systems can be slotted into existing assembly lines without customization or retrofitting.
- Modules can be moved between lines easily, including on uneven floor, with automatic leveling feet.

Dimensions

Width	790 mm (31.1 in)
Depth (total)	1140 mm (44.9 in)
Depth (to conveyor)	927 mm (36.5 in)
Height	2140 mm (84.25 in)
Frame material	304 stainless steel

Performance

Deposits per minute	Standard: 18-20 UPM	Multi-Deposit: Up to 35 UPM
Number of conveyor lanes	1 per System	
Deposit weight consistency	≥ 10% better (compared to a human worker)	
Food product capacity	Standard: 60 qts (56.8 L)	Large Capacity: 120 qts (114 L)

Performance

Max deposit weight	1.5 lb
Recipe changeover time	Less than 5 minutes

Facilities

Chef Systems require electrical, air, and internet connections compliant with the specifications below:

Conveyor

Conveyor height	876.3 mm (34.5 in) - 952.5 mm (37.5 in)
Max conveyor slope	3 degrees
Max floor slope	3 degrees

Power

Max current draw	5 A
Connection	NEMA 5-15P or NEMA L5-20R
Voltage	120 V

Compressed Air

Quality	Clean, Dry Air (CDA)	
Air draw	Standard: Up to 0.5 CFM*	Piece picking: Up to 2.2 CFM*
Air pressure	100 - 130 psi	
Connection	1/4in. Industrial Interchange Pneumatic Coupling	

Wi-Fi

Minimum bandwidth	10 Mbps up / 10 Mbps down
Connection	Ethernet (preferred) or Wi-Fi
Data usage	~25 GB per System per day (includes downloading and uploading)

Environment

Operating temperature range	1°C - 32°C (33.8°F - 89.6°F)
Water resistance	IP67
Humidity	
Relative humidity	<90%, non-condensing

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