



Presto Top Loader

Collating and placing your products into cartons, cases or trays with the speed and precision of a Delta Robot

Features and Benefits

Fast and Compact Design

- ▶ Up to 400 products/minute
- ▶ Designed for fast installation and start up
- ▶ Simple integration into existing or new lines
- ▶ Two robot arm lengths for speed or increased payloads
- ▶ 1.3 m x 1.7 m (4.2 ft x 5.5 ft) small footprint

Maximum Flexibility

- ▶ Production change-over by 1 person in less than 10 minutes with inexpensive change parts
- ▶ Delicate product handling with vacuum cup end-effectors designed to pick up almost any kind of product
- ▶ Grouping products in layers, rotating and squeezing them together for tight-fitting cartons
- ▶ Advanced tracking for precision placement even when products or containers are in motion
- ▶ Advance tracking allows use of only one collation chain
- ▶ Automatic recipe back up and restore feature in the event of power failure
- ▶ Infeed reject of connected, mis-spaced or empty bags to assure continuous production
- ▶ Multiple carton loading end-effectors and carton cadence control

Color Touch Screen HMI

- ▶ Intuitively menu driven windows to set-up, change-over and run different production configurations



Experience

- ▶ Over 1000 parallel axis Delta Robots in several markets in production today
- ▶ In-house design and manufacturing of the three major components: Controller, Robot, End-Effector
- ▶ PMMI certified training programs to assure faster return on your investment
- ▶ Extensive parts and technical support by Bosch Packaging Services

Low Maintenance Robotics

- ▶ Designed for 3 shifts/day operation
- ▶ Fixed position motors and no bending wires for longer life and higher speeds
- ▶ Composite materials for strength and long life
- ▶ No lubricants and no gear boxes above product area
- ▶ Robot arms are collapsible and remountable in 2 minutes
- ▶ Advance tracking eliminates the 2nd collation chain common to most top loading solutions



BOSCH
Invented for life

Presto Top Loader

Technical Data

- ▶ Capable of handling a wide variety of products that fit into the following product range:

Product Range	Minimum	Maximum
Length	50 mm (2")	200 mm (7.9")
Width	15 mm (0.6")	120 mm (4.7")
Height	6 mm (0.24")	60 mm (2.3")
Weight	10 g (0.022 lb)	1 kg (2.2 lb)

Products in a layer

- ▶ Maximum quantity in a layer: 12
- ▶ Maximum number of rows in a layer: 2
- ▶ Maximum weight of a layer: 1 kg (2.2 lbs)

Product input requirement

- ▶ Single-stream flow via conveyor belt; minimum spacing between product is 10% of product length

Carton or tray range	Minimum	Maximum
Length	60 mm (2.4")	420 mm (16.5")
Width	45 mm (1.75")	320 mm (12.6")
Height	25 mm (1")	150 mm (5.9")

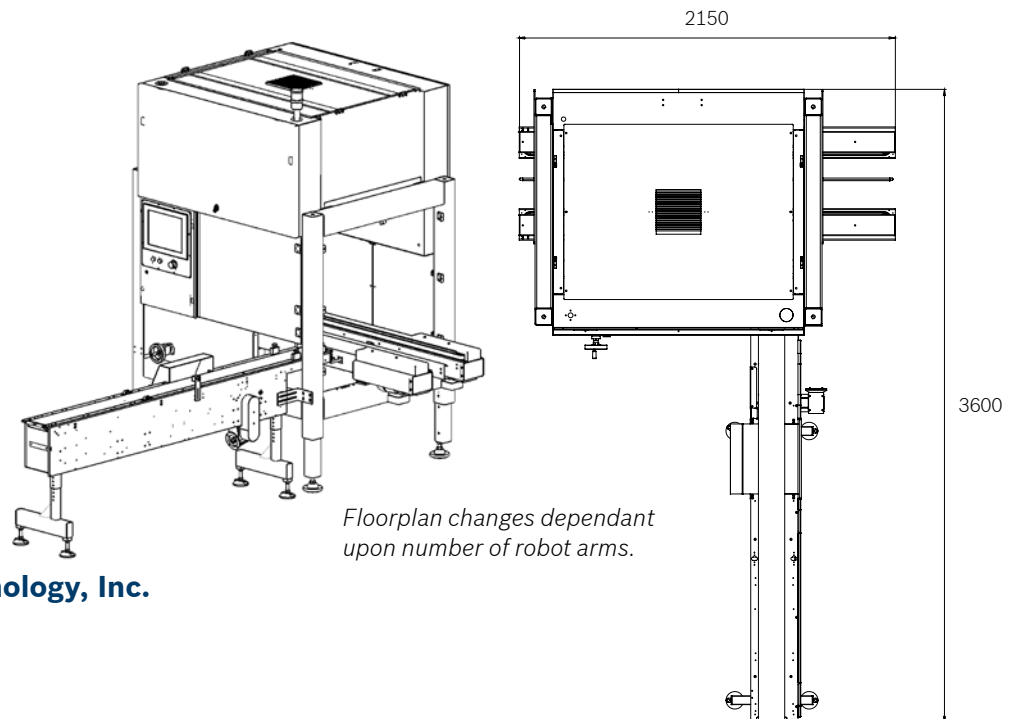
Available Options

- ▶ Squeezing or rotating products prior to loading carton
- ▶ Turning products on-edge before top loading (maximum product width 60 mm)
- ▶ Packing configuration for 1 or 2 rows in a layer (more rows are possible if products are less than 100 mm long)
- ▶ Convenient Dallas key operator authentication with data protection and programmable security levels
- ▶ Additional 1 m infeed belt for increased spacing control between products in the production flow
- ▶ Stainless steel construction
- ▶ HMI swing arm panel
- ▶ Accumulated shelf to randomize products or act as a buffer
- ▶ End-effector off axis motion detection to stop machine
- ▶ Bosch Carton/Tray forming and closing machines for a single source solution

Robot speed is dependent on product size and weight. Not all products that fit in the product range can be packed at the maximum cycle speed. Check with sales support to determine the maximum cycle speed for your application.

Technical information is subject to change without notice.

Presto Top Loader Layout



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