



## Presto Dual Collation Top Loader

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

### Features and Benefits

#### Fast and Compact Design

- ▶ Up to 2 x 300 products/minute with 2 collators
- ▶ Designed for fast installation and commissioning
- ▶ Simple integration into new or existing lines
- ▶ Small footprint, 1.7 m x 2 m (5.6 ft x 6.5 ft) to handle the output from two upstream machines

#### Maximum Flexibility

- ▶ Production change-over 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 or squeezing them together for tight-fitting cartons
- ▶ Advanced product tracking for precision pick and placement even when products and cartons are in motion
- ▶ Automatic recipe back up and restore feature in event of power failure
- ▶ Multiple carton loading end-effectors and carton cadence control

#### Color Touch Screen HMI

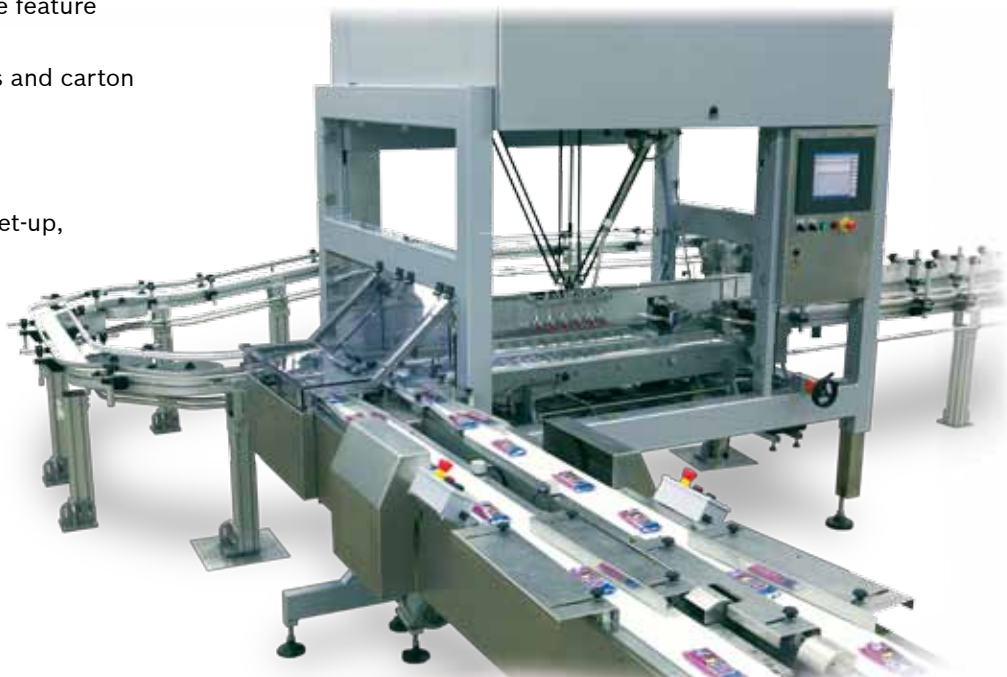
- ▶ Intuitively menu driven windows to set-up, change-over and run different production configurations

#### 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



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# Presto Dual Collation 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)

*Exception: no bare food products*

## 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 or dual-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")	510 mm (20")
Width	45 mm (1.75")	320 mm (12.6")
Height	25 mm (1")	305 mm (12")

## Available Options

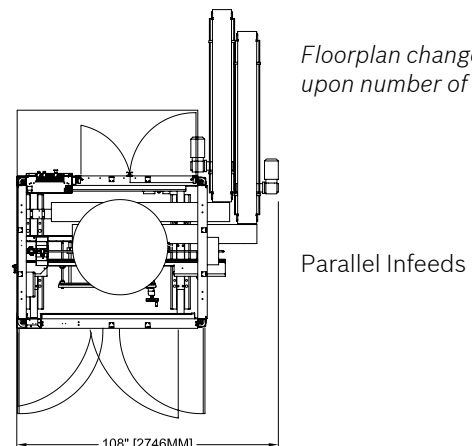
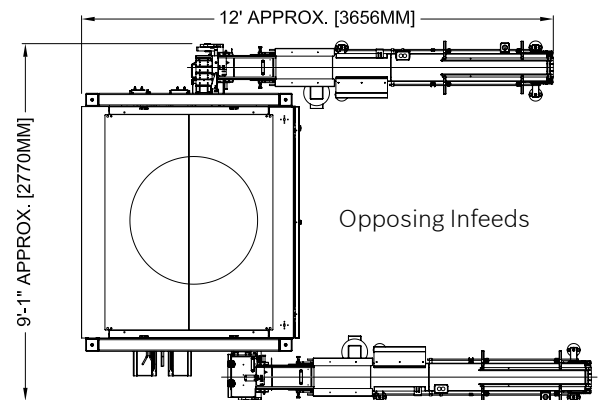
- ▶ Grouping products in layers and squeezing them together for tight-fitting cartons
- ▶ Rotating products during the pick and place
- ▶ Turning products on-edge before top loading (maximum product width 60 mm)
- ▶ Convenient Dallas key operator authentication with data protection and programmable security levels
- ▶ Packing configuration for 1 or 2 rows in a layer (more rows are possible if products are less than 100 mm long)
- ▶ End-effector off axis motion detection to stop machine
- ▶ Bosch carton/tray forming and closing machinery for a single source packaging solution
- ▶ Stainless steel construction
- ▶ HMI swing arm

*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 Dual Collation Top Loader Layout



## Bosch Packaging Technology, Inc.

Packaging Machines

869 South Knowles Avenue  
New Richmond, WI 54017 USA  
Phone (715) 246-6511  
Fax (715) 246-6539  
sales.packaging-nrd@bosch.com  
www.boschpackaging.com

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