

# Paloma Feed Placer

## Technical Data

Product Range	Minimum	Maximum
Length	15 mm (0.6")	300 mm (11.8")
Width	15 mm (0.6")	300 mm (11.8")
Height	1 mm (0.04")	120 mm (4.7")
Weight	10 g (0.022 lb)	1.5 kg (3.3 lb)

## Product Input Requirement

### Without vision-guided option

- ▶ Single-stream flow and packing precision is dependent on product orientation and position at the delivery to the Paloma
- ▶ Maximum 300 mm or 500 mm wide product flow

### With vision-guided option

- ▶ Randomly oriented and positioned products can still be placed with precision
- ▶ Maximum 250 mm or 450 mm wide product flow when using vision

## Requirements of Packaging Machine (Cartoner or Wrapper)

- ▶ The infeed must be as narrow as possible and positioned as close to the product supply conveyor as possible to minimize the robot trajectories and maximize robot performance
- ▶ If the speed control option is selected the packaging machine must be capable of allowing the Paloma to control its speed based on production flow

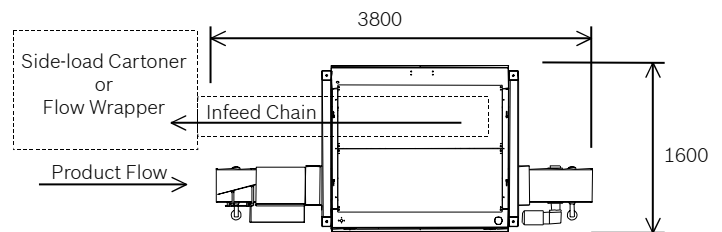
## Available Options

- ▶ 1, 2, 3 or 4 robot arms with one controller dependant upon application
- ▶ Vision-guided to precisely pick and place randomly positioned and oriented products
- ▶ Convenient Dallas key operator authentication with data protection and programmable security levels
- ▶ Grouping products before feed placing
- ▶ Rotation of products to the correct orientation with the 4th axis of motion
- ▶ Stainless steel construction
- ▶ HMI swing arm

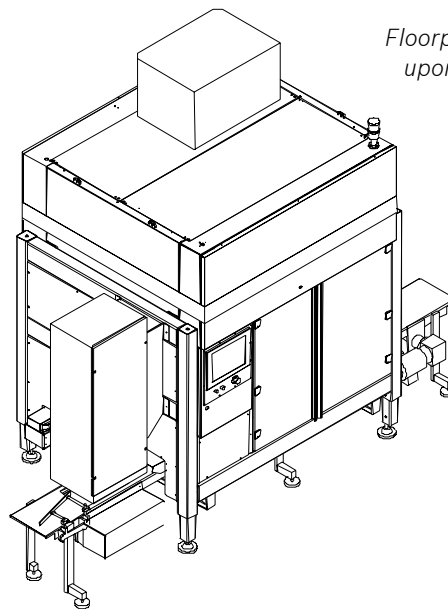
*Robot speed is dependent on product size and weight. Not all products that fit in the product range can be packed at the maximum cycle speed. Check with sales support to determine the maximum cycle speed for your application.*

*Technical information is subject to change without notice.*

## Paloma Feed Placer Layout



*Floorplan changes dependant upon number of robot arms.*



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## Paloma Feed Placer

Placing products directly into a flighted conveyor of packaging machines with the flexibility and speed of a Delta Robot

### Features and Benefits

#### Fast and Compact Design

- ▶ Up to 80 products/minute with 1 robot
- ▶ Up to 160 products/minute with 2 robots
- ▶ Up to 240 products/minute with 3 robots
- ▶ Simple integration into existing or new lines

#### Maximum Flexibility

- ▶ Only one controller to control up to 24 axis of motion (4 robots and conveyors)
- ▶ Production change-over in 5 minutes with inexpensive change parts
- ▶ Delicate product handling with vacuum cup or light-touch mechanical gripper end-effectors
- ▶ Each product can be uniquely positioned and orientated during the pick and place
- ▶ Grouping or stacking prior to placement
- ▶ Advanced product tracking for precision pick and place even when products and infeed conveyor are in motion
- ▶ Randomly positioned and orientated products are packed with precision with the vision-guided option
- ▶ No tools required for change over
- ▶ New state of the art control platform to ensure compatibility
- ▶ Automatic recipe back up and restore feature in the event of power failure
- ▶ Designed to load a cartoner, wrapper, thermoformer or any continuous moving flighted infeed conveyor



#### 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 the product
- ▶ Robot arms are collapsible and remountable in 2 minutes

#### 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



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