

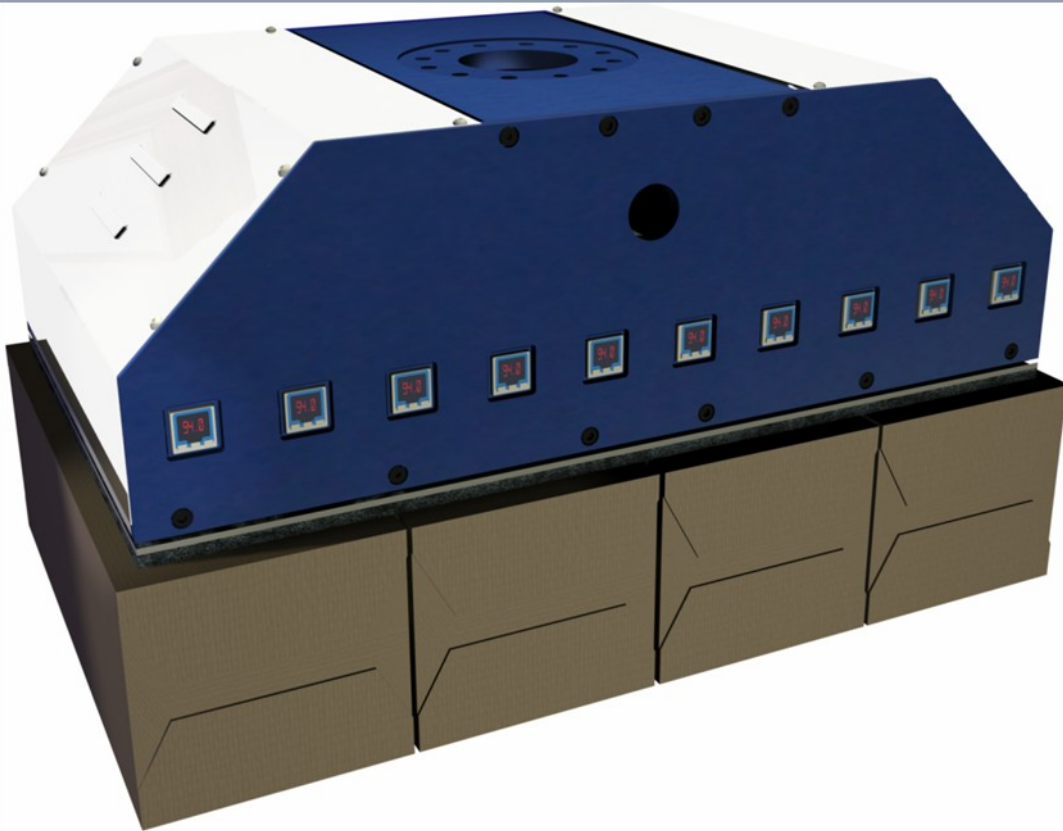
Bag grippers

The Flexpalletizer™ bag grippers are designed for palletizing a variety of bag sizes. The grippers handle paper, polyethylene, woven polypropylene, burlap, and other bag types. RSP carries several Flexpalletizer™ bag gripper models to handle from five pound to one-hundred pound bags.

The gripper stroke is adjustable for bag width to keep the actuation time to a minimum. A containment slide keeps the bag centered while the grippers open. Sensors detect the slide and gripper position for fail safe operation.

Flexpalletizer™ bag gripper advantages:

- Bag is mechanically cradled to minimize damage
- Solid grip allows high acceleration
- Low profile design
- Single bag handling allows for a wide product range and pattern flexibility
- Can be programmed to keep labels or barcodes outward
- Fast change-over time
- Minimal maintenance required
- Replicable fingers
- Operates on plant air
- Slip-sheet handling option



10-Zone vacuum grippers

The Flexpalletizer™ 10-zone vacuum grippers are ideal for palletizing a variety of boxes, trays, and more. The tooling is comprised of ten individual zones with separate vacuum generators. The independent zones allow for instant product change over. The tooling is perfect for handling multiple incoming product conveyors with different product sizes.

Enclosed tooling-mounted DeviceNet or Ethernet modules and blow-off capability reduce reaction time. The 10-zone tool incorporates powerful generators and a flexible suction plate to create a solid grip even on porous and perforated products.

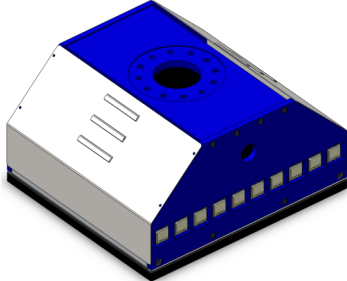
Flexpalletizer™ 10-zone vacuum tooling advantages:

- Solid grip allows high acceleration
- Small volume for fast grip and release
- Allows wide product range and pattern flexibility
- Self levels product
- Instant change-over time
- Minimal maintenance required
- Quick pad replacement
- Blow off capability (self cleaning)
- Dedicated vacuum generator for each zone
- Works with Robot System Products (RSP) Bus-signal enabled Tool changers and Swivels
- Vacuum (part present) switch for each zone with digital display and color vacuum status indicator
- High uptime and reliability
- Does not contain silicone products

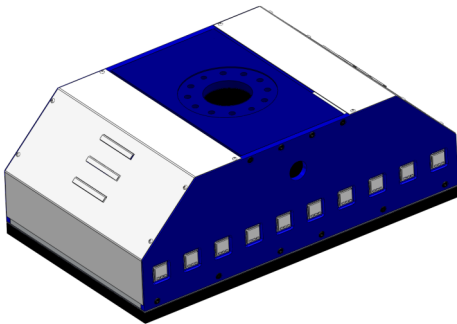
Technical Specifications

Variants

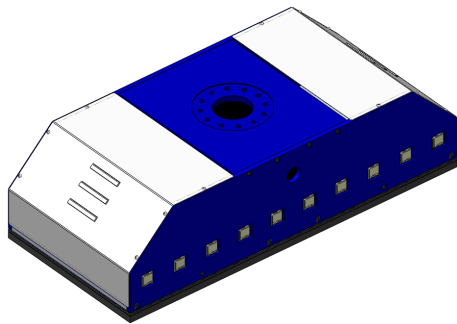
Small density zones



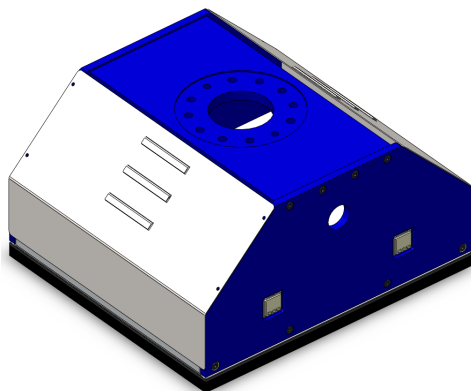
Medium density zones



Large density zones



Custom zone spacing



Physical

Small density zones

18.25"W [464mm] x 20.5"L [521mm] x 11"H [280mm]
Zone spacing 2" [52.4mm]
Weight 93 pounds [42kg]

Medium density zones

18.25"W [464mm] x 30.5"L [775mm] x 11"H [280mm]
Zone spacing 3" [76.2mm]
Weight 126 pounds [57kg]

Large density zones

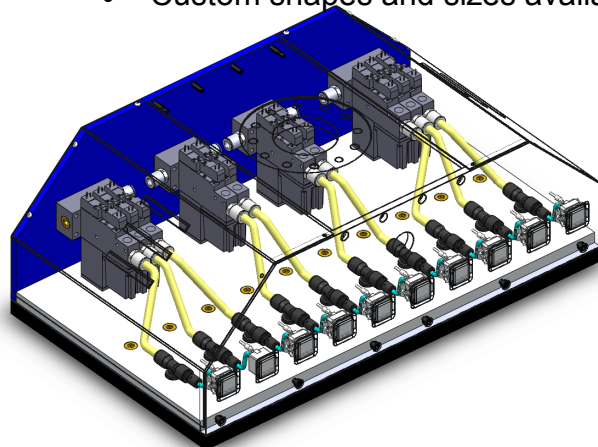
18.25"W [464mm] x 40.5"L [1,029mm] x 11"H [280mm]
Zone spacing 4" [101.6mm]
Weight 158 pounds [72kg]

Performance

Payload Capacity 330 pounds [150 kg]
Air Consumption (max) 6 SCFM/zone

Features

- Robust compact design
- Self cleaning
- Per-zone vacuum sensor with digital display
- Ethernet or DeviceNet compatible
- Accommodates hollow wrist robot models
- Food grade foam option
- Custom shapes and sizes available





Mechanical case grippers

The Flexpalletizer™ mechanical case grippers are ideal for palletizing heavy, bulging, or poorly constructed cases. The tooling incorporates up to four independent fork-style grippers with a stationary stripping plate and top clamp. Tooling-mounted DeviceNet or Ethernet valves and input modules reduce reaction time while maintaining a small footprint.

Solid stainless steel fingers are spaced to allow the gripper to be positioned between in-feed conveyor rollers. Cases are held in place with a pneumatic top clamp allowing high transfer rates and accurate case positioning on the pallet.

Flexpalletizer™

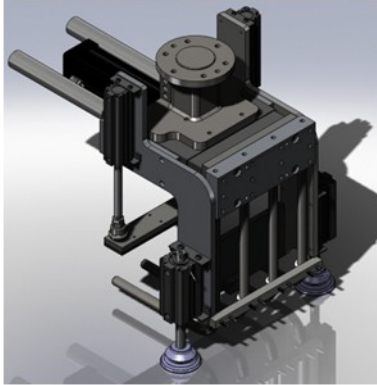
Mechanical case gripper advantages:

- Top clamp allows high acceleration
- Fingers support cases from bottom
- 30mm shafts and linear bearings support heavy loads
- Self levels product
- Dedicated valve for each zone
- Optional retractable slip sheet cups
- Zoning allows wide product range and pattern flexibility
- High uptime and reliability
- Fast change-over time
- Works with Robot System Products (RSP) Bus-signal enabled Tool changers and Swivels
- Minimal maintenance required

Technical Specifications

Variants

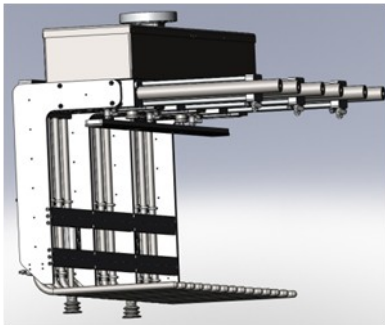
Single Gripper



Physical

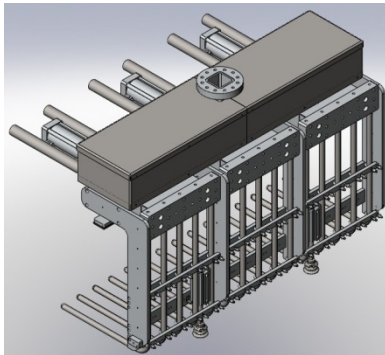
Single Gripper	18"W [460mm]
	22"-30"L [560mm-760mm]
	20"-32"H [500mm-800mm]
Weight	132 pounds [60kg]

Dual Gripper



Dual Gripper	32"W [810mm]
	22"-30"L [560mm-760mm]
	20"-32"H [500mm-800mm]
Weight	250 pounds [114kg]

Triple Gripper



Triple Gripper	45"W [1,150mm]
	22"-30"L [560mm-760mm]
	20"-32"H [500mm-800mm]
Weight	360 pounds [165kg]

Variants

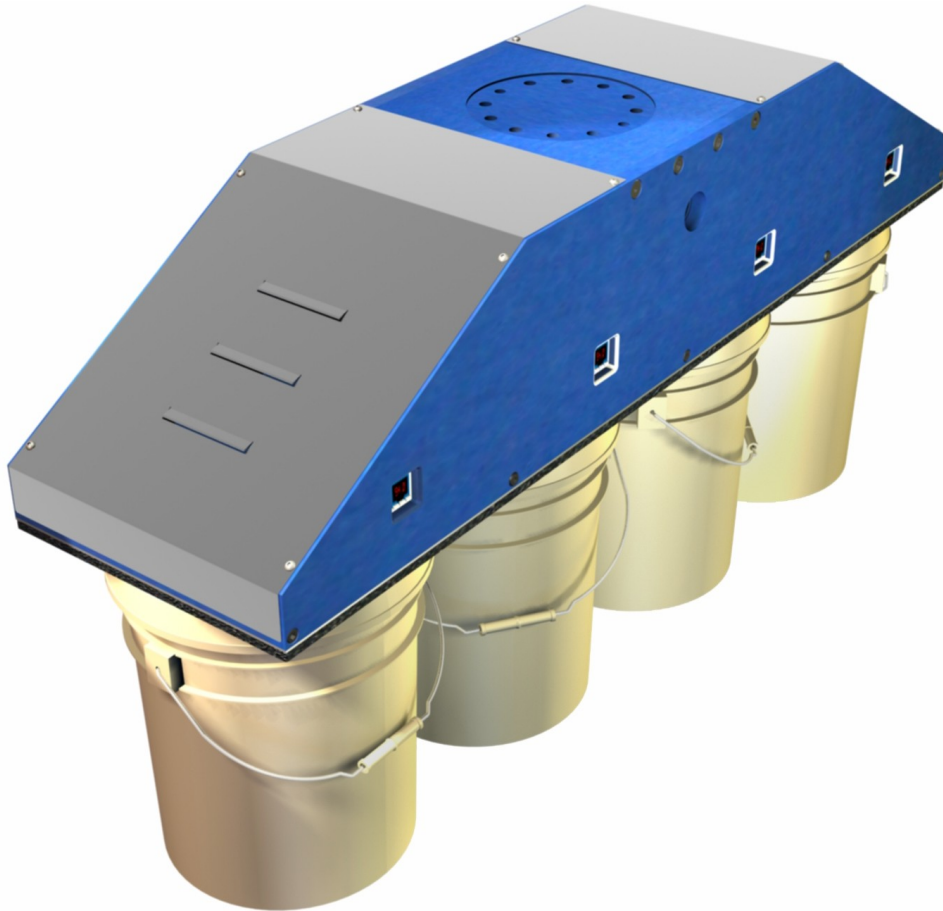
Standard stroke is 6" to 10" [150mm-250mm]

Standard finger length is 10" to 16" [250mm-192mm]

Standard finger diameter is 5/8" or 3/4" [16mm or 19mm]

Performance

Payload Capacity/zone	180 pounds [80 kg]
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Vacuum pail grippers

The Flexpalletizer™ pail grippers are ideal for palletizing a variety of pail and can sizes and shapes. The tooling incorporates one to four pad-style grippers with vacuum generators and blow-off capability. Enclosed tooling-mounted DeviceNet valves and input modules reduce reaction time while maintaining a small footprint.

The pail gripper incorporates a powerful vacuum generator and flexible suction plate to create a solid grip. The gripper can handle empty or full pails (up to 90 pounds each).

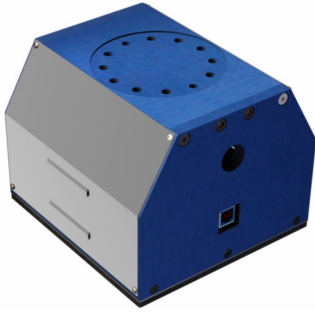
Flexpalletizer pail tooling advantages

- Solid grip allows high acceleration
- Small volume for fast grip and release
- Allows wide product range and pattern flexibility
- Self levels product
- Minimal maintenance required
- Quick pad replacement
- Blow off capability (self cleaning)
- Dedicated valve and vacuum generator for each pail gripper
- Vacuum (part present) switch for each pad gripper
- High uptime and reliability
- Does not contain silicone products

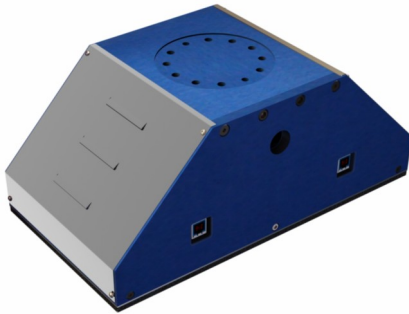
Technical Specifications

Variants

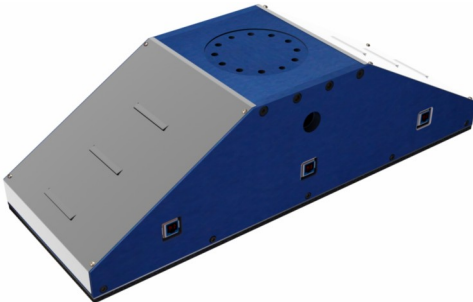
Single Gripper



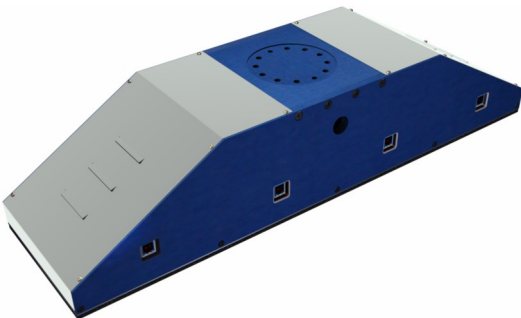
Dual Gripper



Triple Gripper



Quad Gripper



Physical

Tooling

Single Gripper 13"W [330mm] x 13.5"L [343mm]

10.5"H [267mm]
 Weight 50 pounds [23 kg]

Dual Gripper 25.5"W [635mm] x 13.5"L [343mm]
 10.5"H [267mm]

Weight 80 pounds [36 kg]

Triple Gripper 37.75"W [959mm] x 13.5"L [343mm]
 10.5"H [267mm]

Weight 120 pounds [55 kg]

Quad Gripper 50"W [1,270mm] x 13.5"L [343mm]
 10.5"H [267mm]

Weight 180 pounds [73 kg]

Performance

Payload Capacity/pad 396 pounds [180 kg]

Air Consumption 15 SCFM/gripper

Typical Pail Styles



FLEXPALLETIZER™



Vacuum pad grippers

The Flexpalletizer™ vacuum pad grippers are ideal for palletizing boxes, sheet products, wood panels, trays, and more. The tooling incorporates one to four pad-style grippers with integral vacuum generators and blow-off capability. Enclosed tooling-mounted DeviceNet valves and input modules reduce reaction time while maintaining a small footprint.

The vacuum pad tool incorporates a powerful generator and flexible suction plate to create a solid grip even on porous and perforated products. Optional check valves allow the tooling to pick up products that are significantly smaller than the pad surface.

Flexpalletizer™

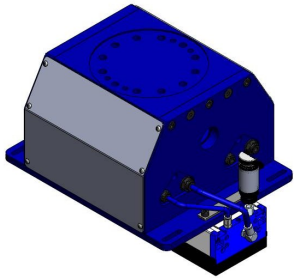
Vacuum pad tooling advantages:

- Solid grip allows high acceleration
- Small volume for fast grip and release
- Allows wide product range and pattern flexibility
- Self levels product
- Fast change-over time
- Minimal maintenance required
- Quick pad replacement
- Blow off capability (self cleaning)
- Dedicated valve for each pad gripper
- Integrated vacuum generator resides in each pad gripper housing
- Vacuum (part present) switch for each pad gripper
- High uptime and reliability
- Does not contain silicone products

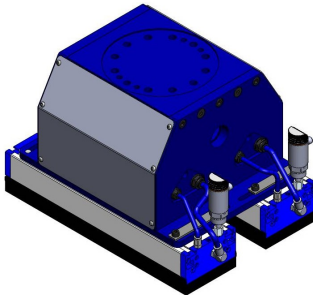
Technical Specifications

Variants

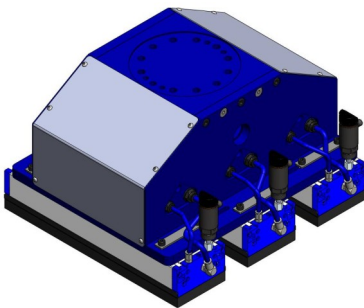
Single Gripper



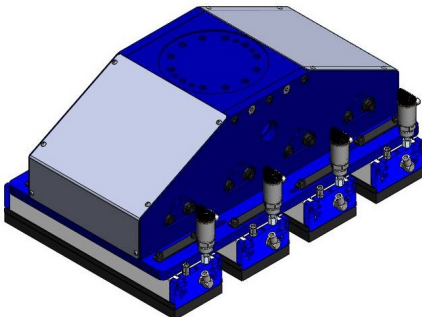
Dual Gripper



Triple Gripper



Quad Gripper



Physical

Tooling

Single Gripper 12"W [305mm] x 17"L [430mm]
12"H [305mm]
Weight 42 pounds [19kg]

Dual Gripper 12"W [305mm] x 17"L [430mm]
12"H [305mm]
Weight 50 pounds [23kg]

Triple Gripper 19"W [457mm] x 17"L [430mm]
12"H [305mm]
Weight 88 pounds [40kg]

Quad Gripper 26"W [660mm] x 17"L [430mm]
12"H [305mm]
Weight 108 pounds [49kg]

Actuators

Pad 4.57" [120mm] x 17" [430mm]
Height 3.15" [80mm]
Weight 6.6 pounds [3 kg]

Performance

Payload Capacity/pad 396 pounds [180 kg]

Air Consumption 13.3 SCFM/gripper pad

Optional Pad Styles

