

TD3/R Series

3-Axis Robotic Pick & Place Cell



Robotic Packaging Solutions



Robotic Pick & Place Cell- Typical Configuration

The 3-Axis Robotic Pick & Place Cell is a dynamic system capable of handling a wide variety of products from multiple industries. Suitable for loading/stacking individual products into trays, cases, cartons, a thermoformer or a flow wrapper infeed.

Products can be picked from a controlled pick position with product preparation or picked from a random pick position using vision to determine location, with little to no product preparation required. Ideal in clean room environments or where space is limited.

Features and Benefits

- Customised product handling
- Compact footprint with rapid size change capability
- Quick change gripper for multiple formats if required
- Easy access for line clearance, cleaning and maintenance
- Reliable for high throughput operations
- Robot positional accuracy +/- 0.1mm
- Gentle product handling via servo control
- Position tracking for optimum pick & place



Technical Information

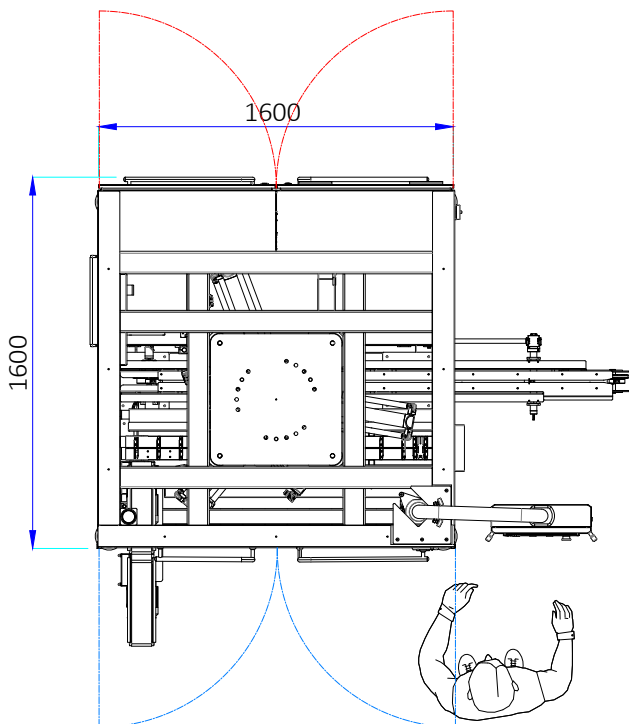
Base Machine Modules	<ul style="list-style-type: none"> - Control Panel – AISI 304L, IP66 - 3-Axis Delta Robot - Stainless Steel Robot Head and Arms - No Calibration Required
Machine Frame	<ul style="list-style-type: none"> - Fabricated Stainless Steel with Polished Finish - Anti-Vibration Support Structure - GMP Features For Easy Cleaning
Control System	<ul style="list-style-type: none"> - Schneider , Allen Bradley or Siemens Options
Software Functions	<ul style="list-style-type: none"> - Format Control/Format Settings List/Data Location - Control Of The Conveyor Speeds By TCP/IP - Upstream/Downstream Signal Connectivity
Safety	<ul style="list-style-type: none"> - Interlocked Doors - E-Stop On The Main Operator Panel - Remote Panel E-Stop - Power Isolator With LOTO
Pneumatics	<ul style="list-style-type: none"> - Festo, SMC or Bosch Rexroth

Operator Interface

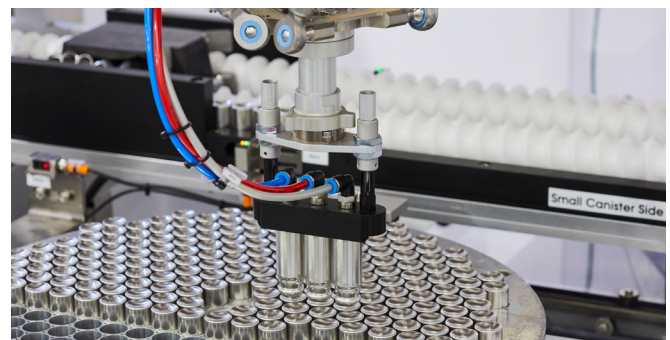
HMI Display	<ul style="list-style-type: none"> - Large Colour Touch Screen - HMI Mounted on Articulated Rotary Arm with Horizontal Adjustment
Operator Controls	<ul style="list-style-type: none"> - Alarms, Warnings, Prompt Messages - I/O Status Check - Machine State (Stop, Ready, Running, Alarm) - Counters (Throughput, Batch Count, Rejects) - Password Protected Local Access Levels - Maintenance Intervals Displayed on HMI - Machine Cycle Count

Service Specifications

Electrical Supply	- 400v, 50Hz, 3 Phase, Neutral + Earth
Compressed Air	- 6 Bar Clean Dry Compressed Air
Control Voltage	- 24 V DC (Internal)



2D Layout of Robotic Pick and Place Cell - Typical Configuration



Application Specific Vacuum or Mechanical Gripper Options



3-Axis Robotic Movement with Rotation



Customised Engineering & Integration



24/7 Technical Support