

## TP2 Series Robotic 6-Axis Palletiser



Robotic Packaging Solutions



*Twin Station Palletising Cell- Typical Configuration*

The Twin Station Palletiser can greatly improve the efficiency and consistency of pallet builds while reducing material usage and human on-site repetitive strain injuries. Ideal for applications with a high case throughput or multiple formats where continuous operation is required. The palletiser is capable of receiving cases from multiple infeeds in various sizes while creating different pallet build configurations simultaneously. With the added functionality to program various pallet build arrangements in both EU and UK standard pallets, this system is suitable for any high volume packaging line.

### Features and Benefits

- Single or twin station palletiser configurations available
- Manual or automatic pallet exchange options
- Multi-Pick vacuum grippers can handle multiple cases to increase throughput
- Fenced working areas with integrated light curtains allows for safe operator to machine interaction
- Systems designed and built for 3-shift operations
- High degree of accessibility for maintenance and cleaning



## Technical Information

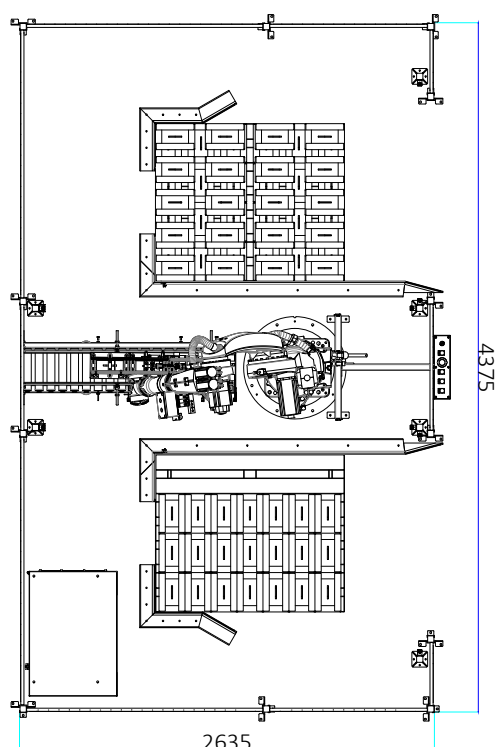
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|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Base Machine Modules</b> | <ul style="list-style-type: none"> <li>- 6 Electrically Driven Servo Axes with Absolute Accuracy Pulse Encoders</li> <li>- Max. Payload (per arm): 25.0 kg</li> <li>- Max. Reach (per Arm): [Project Dependent]</li> <li>- Repeatability: +/- 0.06 mm (ISO 9283)</li> <li>- Weight (manipulator only): 250 kg</li> <li>- IP-Class (lower body): IP54</li> <li>- IP-Class (wrist): IP67</li> <li>- GMP Features for Easy cleaning</li> </ul> |
| <b>Control System</b>       | <ul style="list-style-type: none"> <li>- Compact, Flexible, and High-Performance</li> <li>- Precise Path Performance, Independent from Speed</li> </ul>                                                                                                                                                                                                                                                                                     |
| <b>Software Functions</b>   | <ul style="list-style-type: none"> <li>- Control Of The Machine Safety Operation</li> <li>- Control Of The Conveyor Speeds By TCP/IP</li> <li>- Control/Format Settings List/Data Location</li> <li>- Ready &amp; Stop Signal Exchange OEM/ Upstream/Downstream</li> </ul>                                                                                                                                                                  |
| <b>Safety</b>               | <ul style="list-style-type: none"> <li>- Light Curtain and E-Stop On The Main Operator Panel</li> <li>- Power Isolator With LOTO</li> <li>- Motive Power To Outputs Removed On E-Stop</li> <li>- Safe Communication To Other Safety Participants</li> </ul>                                                                                                                                                                                 |

## Operator Interface

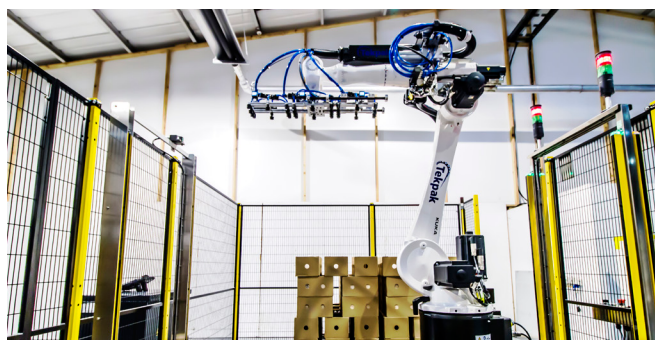
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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Programming Pendant</b> | <ul style="list-style-type: none"> <li>- Robust Plastic Housing with USB Slot</li> <li>- LCD Colour Display</li> <li>- Quick and Easy Programming</li> <li>- Hook to Hang to the Safety Fence</li> <li>- Ergonomic Cable Outlet Position</li> <li>- Teachbox Cable, Pluggable, 8m Length</li> </ul> |
| <b>Operator Controls</b>   | <ul style="list-style-type: none"> <li>- Alarms, Warnings, Prompt Messages</li> <li>- I/O Status Check</li> <li>- Machine State (Ready, Running, Alarm, etc.)</li> <li>- Password Protected Local Access Levels</li> <li>- Pallet Station Select/ Pallet Complete Switch</li> </ul>                 |

## Technical Specifications

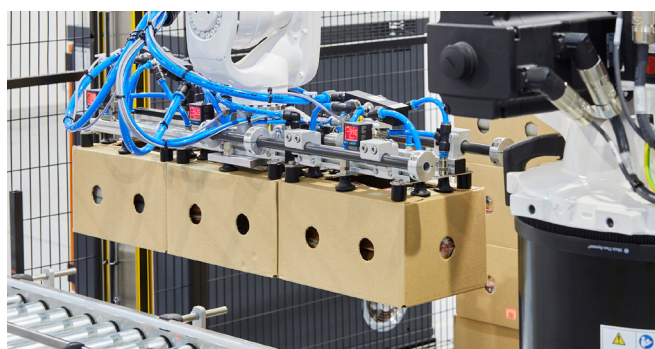
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|--------------------------|----------------------------------------|
| <b>Electrical Supply</b> | - 400v, 50Hz, 3 Phase, Neutral + Earth |
| <b>Compressed Air</b>    | - 6 Bar Clean Dry Compressed Air       |
| <b>Control Voltage</b>   | - 24 V DC (Internal)                   |
| <b>Pneumatics</b>        | - Festo, SMC or Bosch Rexroth          |



2D Layout of Twin Station Palletising Cell - Typical Configuration



6-Axis Robotic Palletiser



Multi-Pick Vacuum Gripper



**Customised Engineering & Integration**



**24/7 Technical Support**