



Handling Cell In Line HCIL-C

Pallet Loading and Unloading Handling Cell

Application

The handling cell is used to load and unload pallets. The pallets are forwarded from the earlier process via transport conveyor. In a centering position of the loading cell the (sub) pallets are assembled into the washing frame (pallets) and moved forward to the electronics washing machine.

Of course the handling cell could be used for any other kind of follow up process as e.g. loading printed circuit boards, housings or finished assemblies instead of pallets.

In the unloading cell the (sub) pallets will be disassembled from the washing frame (pallet) and moved forward to the follow up process. The washing frames (pallets) will be lowered lift wise to the feedback track and moved backwards to the loading cell.

A fail position for pallets enables a selective sorting in the unloading cell. To make that happen there is a need of a traceability software tool and a 2D matrix scanner. Pass pallets could move forward via transport conveyor or will be collected in a standard SMT magazine.

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Features

- A maximum of flexibility, scalability and productivity at comparably low costs
- Pallet handling for test (ICT, FCT, EOL test), washing, screwing, vision inspection, soldering, coating, etc.
- Intelligent fail handling with integrated height detection
- Handling of pallets, printed circuit boards, assemblies or housings
- Short set up times with quick change grippers (parallel gripper or vacuum suction)
- High performance precise axes for fast positioning
- Operator friendly programming by integrated robot control system
- SMEMA interface

Options

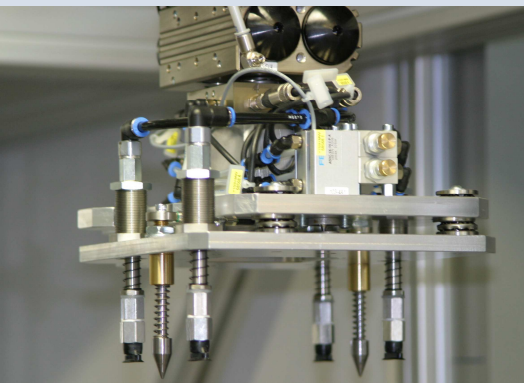
- Automatic gripper change
- Clean room construction ISO 4 (10.000)
- Hand held keyboard for manual use
- Antistatic housing
- Lift module and feedback track
- Traceability

Technics

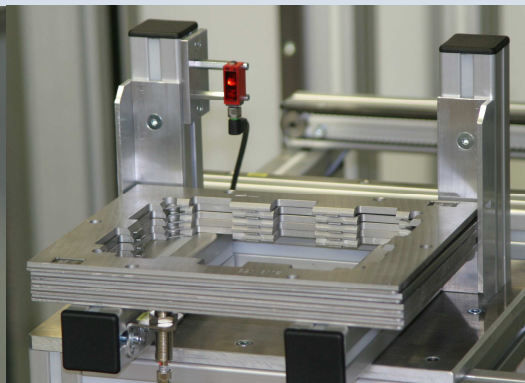
Pallet dimensions : max. 400 x 400 mm (LxW)

Control: Siemens S7 with OP177B

Cycle time: approx. 5 sec



Vacuum suction with centring pins



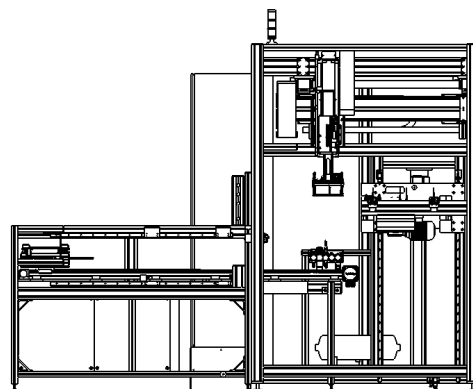
Fail station



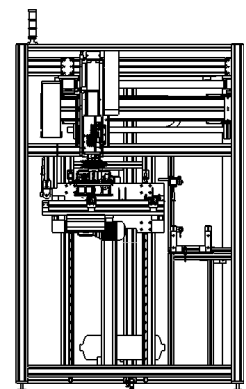
Siemens S7 control

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Loading cell



Unloading cell