



CLASSIC OVEN VERTICAL CAROUSEL

AUTOMATIC VERTICAL CONVECTION THERMAL SYSTEM









SAVE ENERGY AND FLOOR SPACE

Designed for coating processes, post-dispensing backend processes, and intended to address operational needs.



UNIQUE CONCEPT

CONFIGURATION FLEXIBILITY

- → Photoelectric sensor.
- → Lifting.
- $\,\,{\scriptstyle\rightarrow}\,$ Perfect width adjustment mechanism.
- → Fiber optic sensor.
- → Dual lane option.

PRODUCTIVITY

- → Improving temperature uniformity.
- → Unique horizontal + up & down air.
- → Embedded trend analysis.
- → High thermal efficiency and uniformity.
- → Heating layers: up to 65.
- → Dual lane option.
- → 130 positions.

TRACEABILITY (SMARTBOX OPTION)

- → Process tracker.
- → Live process parameters log.
- → Embedded trend analysis.

OPTIMIZATION

- → Floor space & facility savings.
- → Energy efficient.





FEATURES

- PCB size: 600x500 mm (LxW).
- Conveyor: Bottom and return.
- Distance between slots: Adjustable: ex. 25 mm (64 layers) - 75 mm (16 layers).
- Numbers of slots: front 32 cages, rear 32 cages.
- Weight: More than 5 kg per layer.
- Heating control: PID closed-loop control + high-frequency pulse.
- Photoelectric sensor: Detects the PCB position.
- **Fiber optic sensor:** Detects the PCB position.
- Lifting limit: Fiber detection.
- Width-adjusting device: The movable rail is used to adjust the width.
- Safety: CE-compliant safety measures and protection devices.

PCB EXIT



Two parallel chains at the side exit with a pusher device on each chain.

CONTROL OF LIFTING DEVICE



The lifting mechanism is driven by a servo motor.

CONTROL OF PCB ENTRY DEVICE



The limit photoelectric sensor detects the correct PCB position.

HEATING DEVICE



The wind wheel in the heating box delivers heat to the interior.

SMARTBOX OPTIONS

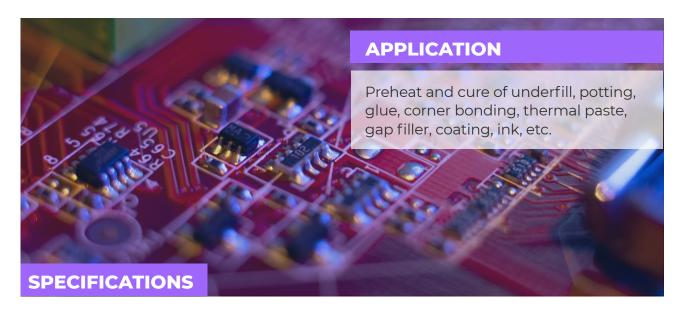
- » Process related sensors:
 - · ESD impurity sensor.
 - · Humidity and temperature.
 - · More on demand.
- » Dispensed geometry element trend analysis with up-stream communication.
- » Local process supervision display.
- » Industry 4.0 SECS/Gem, UAC, Hermes, Opcon, IPC-CFX, Process Tracker & more on demand.



CLASSIC OVEN VERTICAL CAROUSEL







| Company of the stime | |
|--------------------------------|--|
| General specifications | 2200 v IFF0 v 2200 mm |
| Dimension (LxWxH) | 2200 x 1550 x 2200 mm |
| Weight | Approx 1800 kg |
| Heating zone qty | Top 2, bottom 2 |
| Direction | Left to right |
| Power requeriments | 3P 380V/220/480 50/60Hz |
| Total power | 35 kW |
| Power consumption | 7 kW |
| Conveyor | |
| PCB width | 600x500 mm |
| Pallet support edge | ≥5mm |
| Conveying height | 900±20 mm |
| Gap height adjustable | Ex. 25 mm (64 layers) - 50 mm (32 layers) - 75 mm (16 layers) |
| Conveying method | Support strip |
| Conveying speed | 0-2000 mm/min adjustable |
| Bearable weight | 5 kg/layer |
| Conveyor return bottom height | 350±20 mm |
| Property | |
| Heating modular | 4pcs |
| Heating time | 18 min |
| Oven surface temp. | ≤65°C (under room temp.) |
| Controllable temp | Indoor 200°C |
| Heating compensation temp | ±3°C |
| Control accuracy | ±3°C |
| Software | |
| Control method | Touch screen+ PLC / industrial computer+ PLC |
| Data monitor | Computer data record and enquiry |
| Authorization | Can be set |
| Safety | |
| In accord to national standard | Yes |
| Abnormal temp. stop | Signal of PCB enter and exit, trigger device |
| Heat radiation system | Yes |
| Protection device | Safe guardrail, emergency stop, safe marks |
| Safe device | Open the safety door to alarm and automatically shift to temp. dropping mode |
| Over temp. protection device | Heating stops, PCBs inside come out |
| Service | |
| Warranty | 2 years |
| Scene training | Yes |
| SMARTBOX | Available |
| | |

GLOBAL NETWORK





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