MSTECH EUROPE
PART OF INCORPORATECHNO

CLASSIC OVEN VERTICAL FIFO

VERTICAL CURING OVEN HALF SIZE CAROUSEL

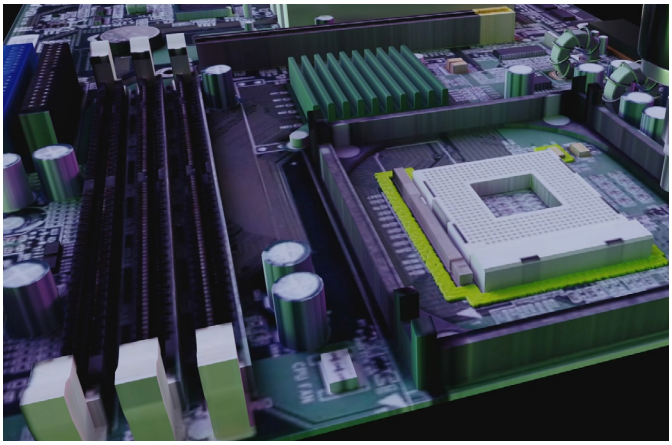


MADE IN EU
PROCESS TRACKER
4.0 INDUSTRY

SAVE ENERGY AND FLOOR SPACE

The **CLASSIC OVEN'S VERTICAL FIFO** design transforms the flat heating space into a three-dimensional one, saving energy and space. Its user-friendly touchscreen interface ensures precise system operation, reliability, continuous curing processes, and adjustable curing times.

Save energy and floor space without compromising high-precision temperature control.



UNIQUE CONCEPT

CONFIGURATION FLEXIBILITY

- Up to 4 temperature sensors in entry conveyor.
- Heating layers: up to 20 layers.
- Perfect width adjustment mechanism.

PRODUCTIVITY

- High thermal efficiency and uniformity.
- Unique horizontal + up & down air transportation.
- The 3 level protection heating system prevents overheating.
- Lifting.
- **FULL INTERCONNECTED TRACEABILITY [SMARTBOX] OPTION**
- Process Tracker embedded software platform with on demand communication & KPI definition.
- Live process parameters log.
- Embedded trend analysis.

OPTIMIZATION

- Floor space & facility savings.
- Energy efficient.

FEATURES

- **PCB size (LxW):** 710x450 mm.
- **Numbers of slots:** multi product loading capability per slot.
- **Weight:** Up to 5 kg per slot.
- **Heating control:** Multi zone PID closed-loop control + high-frequency pulse.
- **Conveyors:** Top and bottom return.
- **Layer height:** 700 mm. Standard: 20 layers.
- **Adjustable inter slot distance:** ex. 45 mm (14 layers) – 25 mm (20 layers).
- **Sensors:** 4 temperature.
- **Warm up time:** Approx. 15-30 min.
- **Baking temperature:** ≤200 °C.
- **Conveying direction:** L<R.
- **Conveyor height:** 900±20 mm.
- **Conveyor motor**: Servo motor.
- **Pushing motor**: Step motor.
- **Barcode reader.**
- **Safety:** CE-compliant safety measures and protection devices.
- **Option:** EPA filter, nitrogen system.

SMARTBOX OPTIONS

» Process related sensors:
  - ESD impurity sensor
  - Humidity and temperature
  - UV wave length and dose
  - More on demand

» Dispensed geometrical 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.

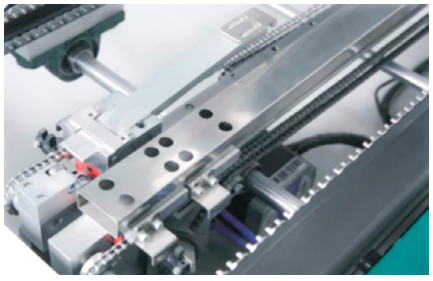
HUMIDITY

TEMPERATURE

INDUSTRY 4.0

PROCESS TRACKER

In and out plate push system





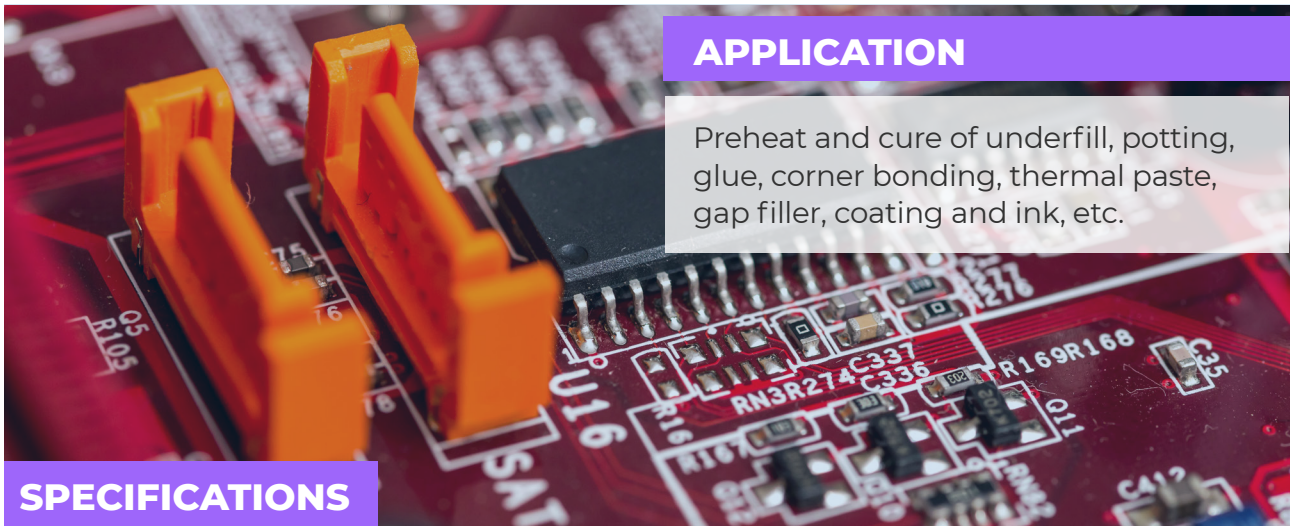
Door frame insulation structure

Nitrogen protection system





Lifting system



APPLICATION

Preheat and cure of underfill, potting, glue, corner bonding, thermal paste, gap filler, coating and ink, etc.

SPECIFICATIONS

General specifications	
Dimension (LxWxH)	2000x1000x2200 mm.
Weight	Approx. 1500 kg.
Power supply	3P, 5 wires, 380V, 50/60HZ.
Total power	20 kW.
Power consumption	3-5 kW.
PCB/pallet size (LxW)	700 mmx450 mm.
Heating layers	20 layers.
Exhaust requirements	5m³/H.
Speed adjust	Variable frequency speed control.
Warm up time	Approx. 15-30 min.
Baking temperature	≤200 °C.
Baking time	Set according to the process.
Machine control method	Touch screen + PC.
Temperature control method	PID closed loop control + high frequency pulse.
Temperature control accuracy	±1.5 °C.
Temperature deviation	±2.0 °C.
Oven surface temp.	≤50 °C (under room temperature).
Parameters saving	Production settings and conditions can be stored.
Number of storage layers	700 mm/layer height, standard 20 layers.
Weight capacity	5 kg for layer.
Distance between slots	Adjustable: ex. 45 mm (14 layers) - 25 mm (20 layers).
Conveying direction	Left to right.
Pallet edge	≥10mm.
Signal	SMEMA.
Conveyor height	900±20mm.
Running noise	≤70db.

GLOBAL NETWORK



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