

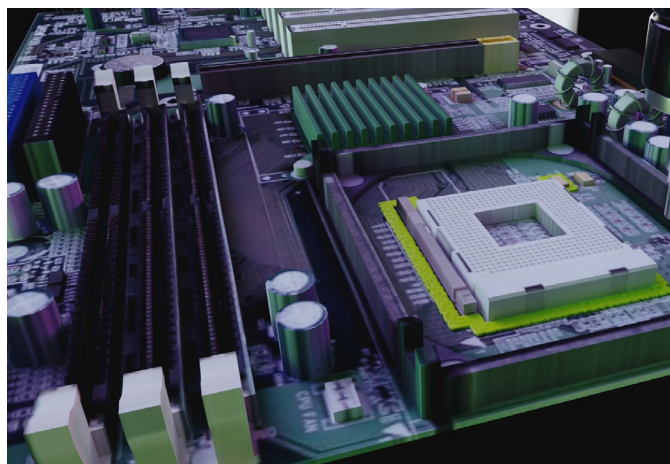
CLASSIC OVEN VERTICAL FIFO

VERTICAL CURING OVEN HALF SIZE CAROUSEL



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.



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.

TRACEABILITY (SMARTBOX OPTION)

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

OPTIMIZATION

- Floor space & facility savings.
- Energy efficient.

FEATURES

- **Barcode reader**
- **Conveyors:** 2.
- **Sensors:** 4 temperature.
- **PCB/pallet size (LxW):** 700x450 mm.
- **Power supply:** 3P, 5 wires, 380V, 50/60HZ.
- **Heating layers:** 20 layers.
- **Layer height:** 700 mm. Standard: 20 layers.
- **Distance between slots:** Adjustable: ex. 45 mm (14 layers) - 25 mm (20 layers).
- **Warm up time:** Approx. 15-30 min.
- **Weight capacity for each layer:** 5 kg.
- **Baking temperature:** $\leq 200^{\circ}\text{C}$.
- **Conveying direction:** L<R.
- **Conveyor height:** 900 \pm 20 mm.
- **Option:** EPA filter, nitrogen system.
- **Conveyor motor:** Servo motor.
- **Pushing motor:** Step motor.

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

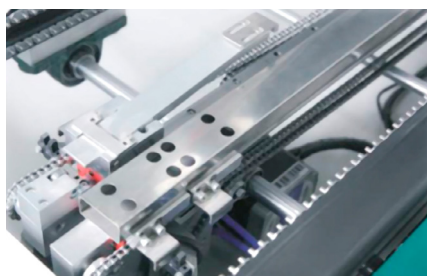


INDUSTRY 4.0



PROCESS TRACKER

In and out
plate push
system



Door frame
insulation
structure

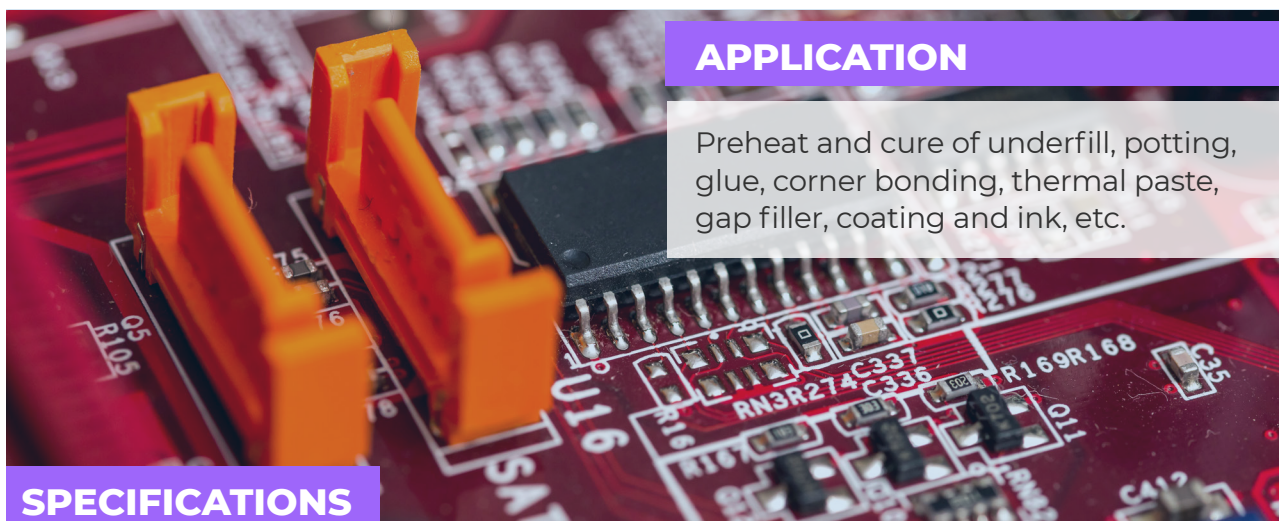


Nitrogen
protection
system



Lifting
system





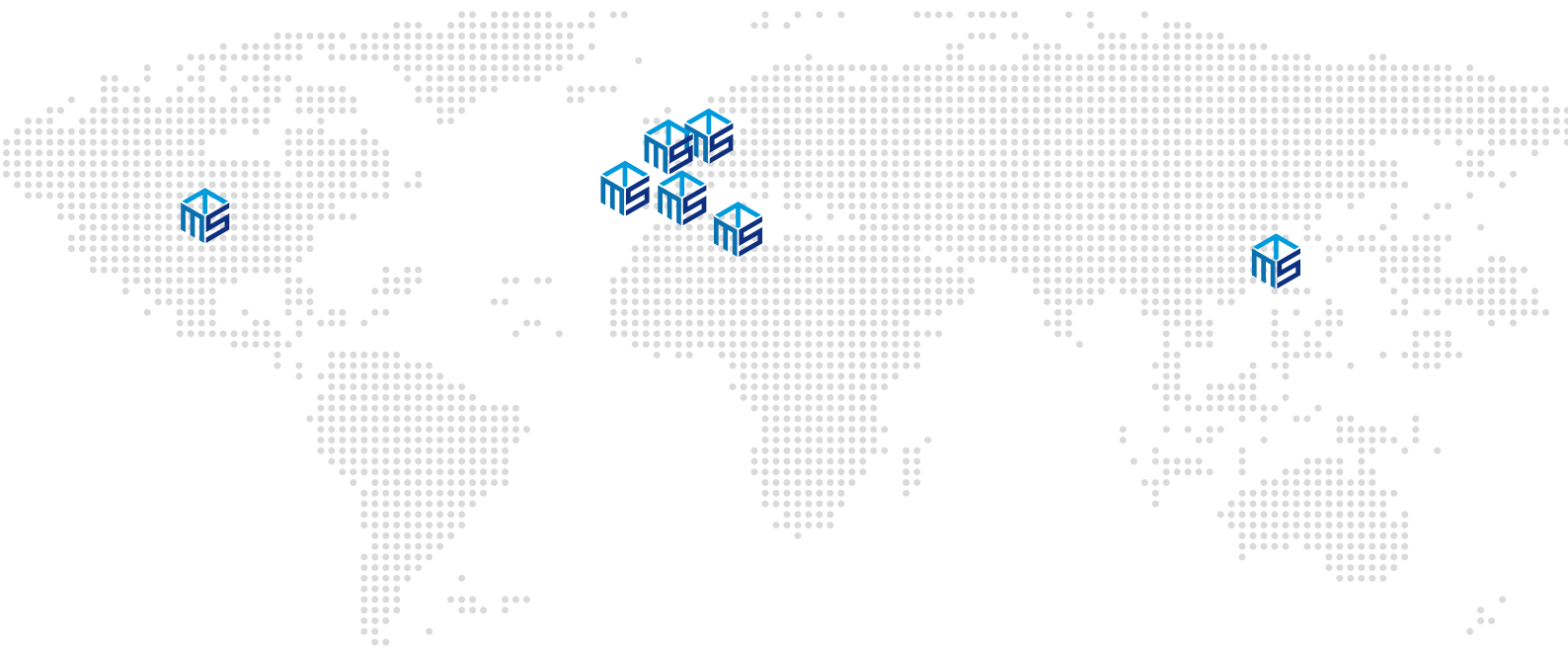
APPLICATION

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	5m ³ /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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