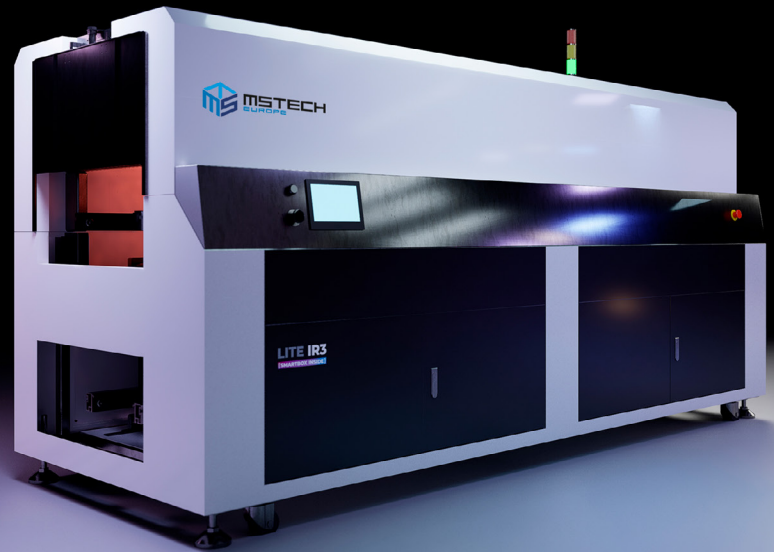


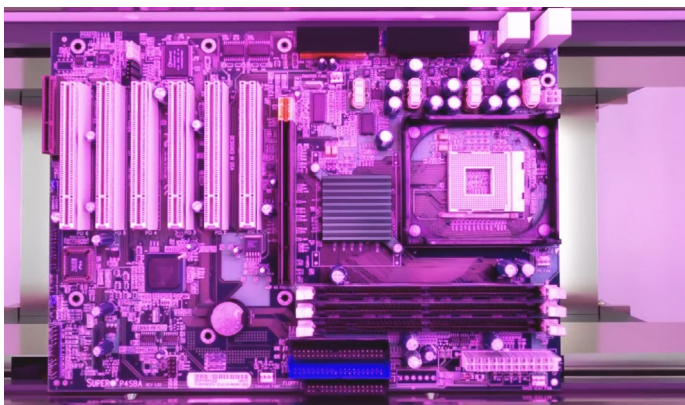
LITE IR

**MAXIMUM
PRODUCTIVITY
AND PERFORMANCE**



INFRARED MULTI-ZONE CURING OVEN

LITE IR product line provides a lean and efficient process for curing various materials using a combination of IR and Convection Heat Sources.



UNIQUE CONCEPT

CONFIGURATION FLEXIBILITY

- LITE IR2: 1800 mm / IR3: 2800 mm / IR4: 3800 mm.
- High component clearance <150 mm top and bottom.
- Dimensions: PCBA-pallets: up to 710x540 mm
Max pallet weight: 20 kg.
- Available for integration with Protection Concept Modular Line.
- InLet/OutLet shutters standard.
- IR Radiation and combined convection.

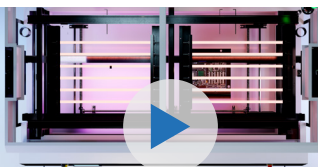
TRACEABILITY (SMARTBOX OPTION)

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

OPTIMIZATION

- Floor space & facility savings.
- Energy efficient.
- Any size variants can be accommodated by model's alignments.

OPTIONS



LITE IR2

1800



LITE IR3

2800

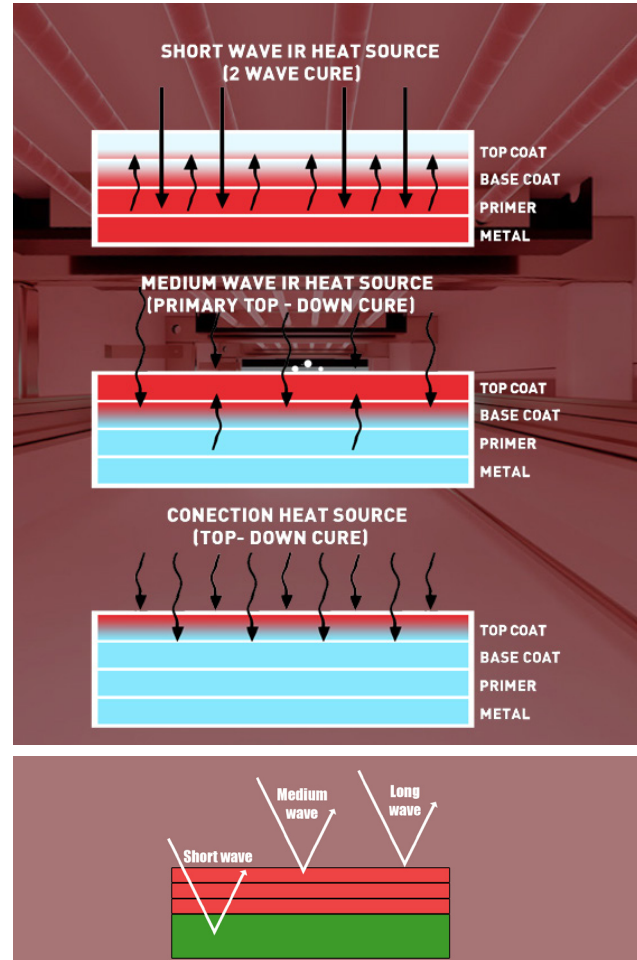


LITE IR4

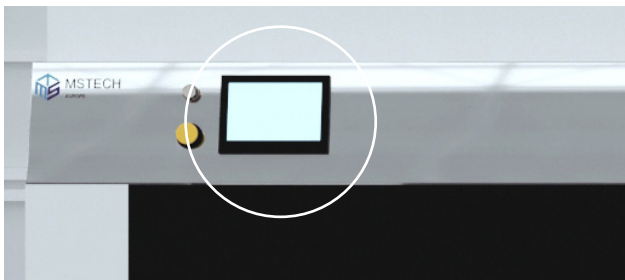
3800

FEATURES

- **Adjustable speed:** Transmission system uses an adjustable speed of 100-2000 mm/min.
- **Electric power supply:** Voltage supply: 3-phase, 380VAC, 50/60Hz.
- **Automated width adjustment:** Programmable conveyor width adjustment.
- **Short wave IR heat source** for optimized productivity and collateral convection for profile stability.
- **InLet/OutLet Shutters:** to increase thermal stability, reduce energy consumption and optimize safety.



PROCESS MONITORING



Throughout the protection process the PLC module monitors the loading and unloading operation, board location and exhaust ventilation for possible solvent-based protection processing.

SAFETY



Safety interlocks prevent the doors from opening during operation.
Pneumatic safety shutter.



SMARTBOX OPTIONS

- » Process related sensors:
 - ESD impurity sensor.
 - Humidity and temperature.
 - UV wavelength and dose.
 - More on demand.
- » Full temperature mapping of products in process
- » Local process supervision display.
- » Industry 4.0 - SECS/Gem, UAC, Hermes, Opcon, IPC-CFX, Process Tracker & more on demand.



HUMIDITY



TEMPERATURE



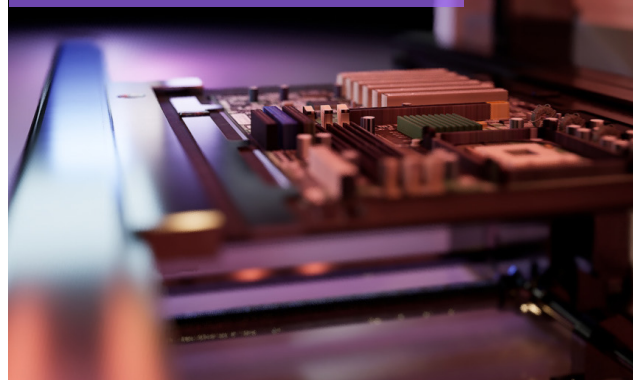
INDUSTRY 4.0



PROCESS TRACKER

APPLICATION

Preheating and curing of underfill, potting, glue, corner bonding, thermal paste, gap filler, coating, ink.



SPECIFICATIONS

Conveyor segments	1 for top and 1 for bottom conveyor
Function control	PLC control HMI size: 5" (800x480 px)
Conveyor speed	Adjustable speed at 100-2000 mm/min.
Irradiation zones	2, 3 or 4 zones
Temperature	Standard: 60 °C-120 °C, up to 200 °C under requirements
Average temp. tolerance	+/-5 °C
Direction	L->R (Option: R->L)
Board length	50 mm min. – max- 50% of oven length
Board width adjustment	50-540 mm
Conveyor clearance	150 mm top and bottom
Conveyor max. payload	≤ 12.0 kg/m (24 lbs.) max.
Board/pallet thickness	0.6 mm min.
Board/pallet warpage	3 mm max. overboard width
Board Counter	Yes
Heater length	IR2: 1800 mm / IR3: 2800 mm / IR4: 3800 mm
Transportation system	Dual stainless chain edge transportation system
Transport edge width	5 mm per side (35B stainless steel chain)
Conveyor height	914-991 mm SMEMA
Module dimensions (LxWxH)	IR2: 1800x1230x1400 mm / IR3: 2800x1230x1400 mm / IR4: 3800x1230x1400 mm
Voltage	3-phase, 380VAC, 50/60Hz
Working power consumption	IR2: 4 kW / IR3: 6 kW / IR4: 8 kW
Power for warm up	IR2: 9 kW / IR3: 15 kW / IR4: 18 kW
Weight approx.	IR2: 450 kg / IR3: 650 kg / IR4: 850 kg

GLOBAL NETWORK



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