

# EMST Konark 710ec

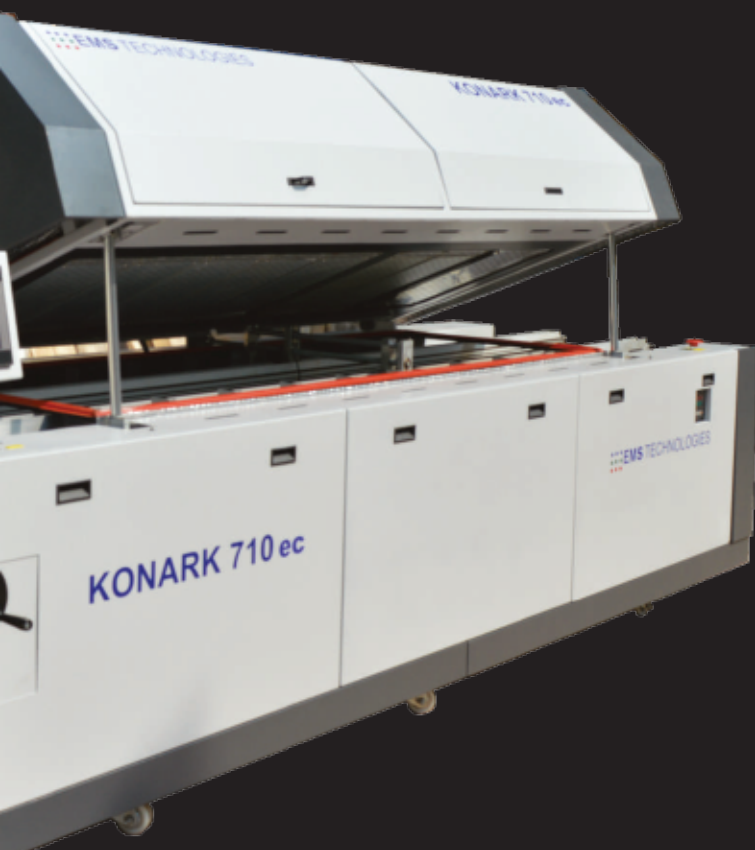


## Seven Zone Reflow Oven

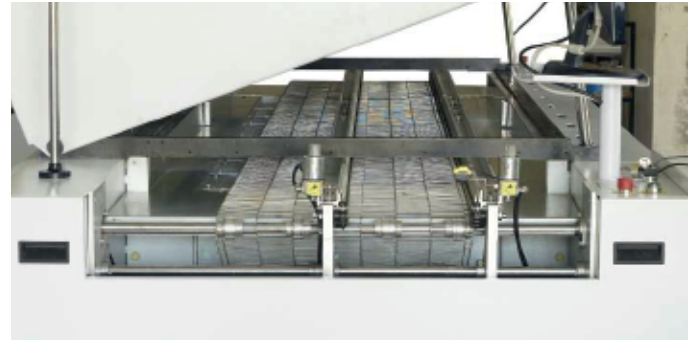
Konark 710ec is new 7 zone Lead free oven from EMS Technologies, Pune India 'The Soldering Specialists'. With more than 20 years of experience in manufacturing different PCB Assembly equipment like Wave Soldering Machines, Reflow Ovens and Stencil Printers etc., We proudly introduce our Konark 710ec , the 7 zone fully Hot Air Convection Reflow Oven. The oven is built with same quality and reliability standards of our field proven SMT Products.

# Features:

- 14 Independently PID Controlled Heating Zones (7 Top & 7 bottom zones)
- One Cooling Zone incorporated inside the process chamber.
- Tunnel length of 1925 mm
- Overall process length of 2415
- Maximum PCB width of 400 mm
- Mesh, Chain (pin-edge) or Chain above Mesh
- Manual/Auto conveyor width adjustment
- Electrically Operated hood opening.
- Max. temperature : 300°C
- Lead-free compatible
- PLC with 10" HMI control
- 4 channel profiler option
- Flux Management System (Optional)



Well laid out control panel giving full access for easy maintenance.



Conveyor rail made of special Aluminium alloy with high rigidity, accuracy and little distortion. Conveyor mesh made of Stainless Steel. Pin type conveyor for inline operation with 3 mm pin.



Highly reliable 10" Touch Screen display with simple self explanatory, user interface to make programming & operation very easy for any level of operator.



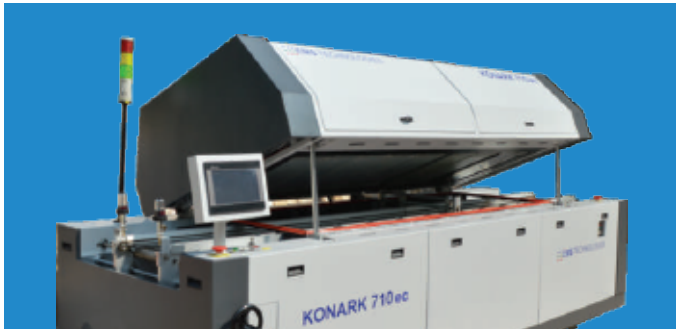
Optional 4 channel profiler allows full screen display of 4 thermocouple inputs on-line and also displays  $\Delta T$ .



Input and Output status of all I/O controls can be seen with status indication for easy maintenance and troubleshooting



Manual or Service Mode of operation, which is Password protected, available for independently checking almost all operations - blowers, hood, tower lamp, cooler, chain lubrication etc allowing easy maintenance & troubleshooting of faults at any section.



Automatic Hood Open/Close Mechanism allows easy access to heating chamber and conveyor system for cleaning and maintenance.



Other Software Features : Weekly/Daily Timer for programmed machine switching ON, 3 levels of User Password, Maintenance Calender, Error History, Calibration, Profile Run History, User Manual on Screen etc.



# Specifications

Technical changes reserved.

## Electrical Supply

Power Input	415V, 3ph, 50 Hz
MCCB	100A @ 415V
Peak Power Consumption	38 KW
Steady State Power Consumption	Around 10 KW
Sequential Zone Turn ON	Standard

## Dimensions

Overall Length	3780 mm
Overall Width	1320 mm (1865 with door open)
Overall Height (Include Signal Tower)	1730 mm
Nett Weight	1300 Kg
Shipping Dimensions	4100 x 1420 x 1700 mm
Shipping Weight	2200 Kg

## Oven Control

PLC with PID	Standard
Touch Screen HMI	Standard
Data Logging	Standard
Password Protection	Standard
Auto Start Software (Weekly/Daily Timer)	Standard
Hood Lifting	Motorised

## Mesh Belt Conveyor

Standard

Height From Floor	880+/- 25mm
Maximum PCB Width	400mm
Clearance above Mesh	60mm
Mesh Belt Pitch	12.5mm
Conveyor Direction	Left to Right , Standard Right to Left - OPTION
Maximum Conveyor Speed	2mtr/min / 200 CPM
Conveyor Speed Control	Closed loop

## Manufactured by



S. No. 43/3, New Gat No. 322, Plot No. 1,  
Pirangut, Tal. Mulshi, Dist. Pune - 412 115 INDIA

**emst**  
Marketing Pvt. Ltd.

## Sold & Serviced by

Gat No.322, Plot No.1, At Post- Pirangut Tal- Mulshi,  
Dist. PUNE 412115- India  
P: +91 95955 25010 | E: [contact@emstonline.com](mailto:contact@emstonline.com)  
W: [www.emstonline.com](http://www.emstonline.com)

## Edge Pin Conveyor

Option

Height From Floor	900+/- 25mm
Minimum/Maximum PCB Width	50 / 400mm
Clearance Above Pins	30mm
Clearance Below Pins	35 (without mesh below)
Support Pin Length	3.5mm
Conveyor Direction	Left to Right , Standard Right to Left - OPTION
Conveyor Width Adjustment	Manual - Standard Motorised adjustment - Option
Maximum Conveyor Speed	2mtr/min / 200 CPM
Conveyor Speed Control	Closed loop
Auto Lubrication System	Option
Edge Pin Above Mesh	Standard

## Forced Convection Zones

Top	7
Bottom	7
Heater Type	Open Coil
Total Heating Tunnel Length	1925mm
Total Process Length	2415mm

## Cooling Zones

No. of Cooling Zone	One (Air cooling)
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## Temperature Control

Type of Temperature Control	PID
Accuracy of Temp. Controller	+/-1°C
Heater Wattage Per Zone	5000 W
Temperature Range	Ambient to 300 °C

## Additional Features

Profiler	4Ch, in-built profiler OPTION
Signal Tower	Standard
Power Hood lift	Standard
Board Drop Sensor	Standard
Board Counter	Standard
Battery back up for conveyor (UPS)	OPTION
SMEMA	OPTION
Center Board Support	OPTION
Flux Management System	OPTION

Owing to continuous Research and Development,  
specifications are subject to change without notice.