

UV Curing Tunnel



Standard features:

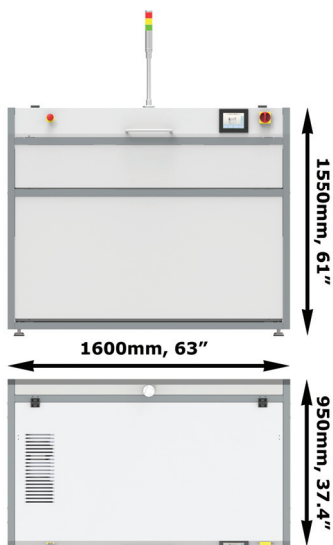
- Fully automatic in-line UV curing with Fusion® microwave lamps
- Modular system
- Active cooling zone
- Dual in and out shutters prevent UV-light leakage.
- Three segment adjustable speed pin chain conveyor
- Automatic width adjustment
- SMEMA interface

The UV 1600 Curing tunnel is a compact and efficient in-line tunnel for curing conformal coating, glue and other fluids. The UV 1600 uses Fusion® microwave lamp technology. Each lamp covers a width of 150 mm and up to three lamps can be installed to cover a total width of 450 mm. A short curing time makes it possible to transport more PCB's through the curing tunnel per hour and therefore provides for a high production capacity in only 1600 mm of length.

The energy control system uses conveyor width to determine number of lamps to use for the curing process. Lamps outside actual board width will not be lit. Time is logged for optimal use and lowest cost of ownership. An active cooling zone, placed immediately after the UV-area, provides a quick cool down to avoid sending heated boards to the subsequent machine in a production line.

Technical information:

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|--------------------------------|---|
| • Board transport level: | 940 ± 30 mm (37 ± 1.2") |
| • Board length: | 70 - 450 mm (2.7 - 17.7") |
| • Board width: | 50 - 450 mm (2 - 17.7") |
| • Min. board thickness: | 0.8 mm (0.03") |
| • Max. board weight: | 4 kg (8.8 lbs) |
| • Components clearance top: | 100 +/-25 mm (3.9 +/-1") |
| • Components clearance bottom: | 100 mm (3.9") |
| • Board edge clearance: | 3 mm (0.12") |
| • Conveyor speed (adjustable): | 1 - 2 m/min (39 - 78"/min) |
| • UV source: | Fusion® UV F300 with selectable UV bulb |
| • UV lifetime: | Min. 8000 h |
| • UVA intensity: | >700mW/cm ² |
| • UVB intensity: | >700mW/cm ² |
| • UVC intensity: | >150mW/cm ² |
| • Power supply: | 400 VAC, 3-phase |
| • Min. exhaust air flow: | 200m ³ /hr (118 cfm) for each lamp |
| • Exhaust air outlet diameter: | 200 mm (7,87") |
| • Air supply: | 5-10 bar, 1000 l/h (70-140 psi, 0.6 cfm) |
| • SMEMA Interface | |



Order codes: UV 1600 Curing tunnel 150mm max. width, K-017-1048
 UV 1600 Curing tunnel 300mm max. width, K-017-1049
 UV 1600 Curing tunnel 450mm max. width, K-017-1050