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Beltrotherm

Predrying after soldermask coating

BELTROTHERM
CONTINUOUS BELT DRYER FOR PREDRYING AFTER SOLDERMASK COATING

This unique drying technology allows evaporation and predrying of coated wet lacquers i.e. soldermask, etch resist etc. within 5 to 7 minutes. The surface is pre-dried tack-free and residue-free development after exposure ensured. Depending on the drying equipment the process is running on single or double-sided. The drying process is independent of the type of coating, the evaporation and drying is carried out in the horizontal pre-drying process, quickly and completely.

Coating types:

Screen printing on one or both sides vertically, single-side curtain coating, spray coating on one or both sides, dip coating, roller coating and more.

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For different PCB thickness ranges and special types temperature profiles - tuned to an optimal drying process – will be created and stored in the PLC. Optimized temperature profiles are recorded and stored in up to 120 programs.

The appropriate drying program is called by touch on the touch screen and changed within minutes. The few minutes changeover usually go into the preparation of the coating line for the new lot.

The operational readiness will be reported by signal to the upstream machine. The touch screen OMRON PLC shows a clear view of the operation condition and is ready for more input.

Technical Information Beltrotherm

- Working widths: 610 mm / 24" or 760 mm / 30"
- Belt speed: adjustable
- Tack drying soldermask: 0,5 - 50,0 m/min.
- Curing soldermask: 0,2 - 2,0 m/min.
- Curing paste: 0,5 - 5,0 m/min.
- Temperature range: RT - 250°C
- Electrical connection: 400 V 3/N/PE 50 Hz
- Connecting power per module: 9,3 kW / 18,6 kW
- Working power per module: 4,6 kW / 9,3 kW
- Supply air, exhaust air per Module 100 - 300 m³/h
- Module length: 1000 mm
- Module width: 1000 mm
- Module height: 1200 mm

- Available modules:
- tranquilizers module
- Abdunstmodul
- heating module
- cooling module
- Inlet / outlet, various
- PLC control: In the mobile console with touch-screen screen

The Thermo-Dryer BELTROTHERM are used successfully in:
printing industry, electronic industry, plastic industry, textile industry, packaging industry, automotive industry and glass industry.

These are just a few examples from the various partner portfolio of Beltron.