

Infrared Conveyorized System For Automotive Industry

For drying of primer on car side windows



Primer- Drying System SM-IR 700

Features:

- fast response medium wave Heraeus IR Emitters with gold reflector
- short cycle time – high output
- indexing conveyor, controlled position
- Left and right window are processed at the same time
- 4-lane chain conveyor
- support pins with anti slide cover
- temperature control via pyrometer
- close loop control
- servo motor with ramp adjustment
- process control via operator panel
- easy access to process room via clam shell opening
separate control cabinet

Process description:

Before the windows will be assembled with the rubber seal, a primer must be applied on the glass in order to accept the adhesive and guarantee a good connection with the glass. The primer must be dried in the IR curing system within a cycle time of 40 sec. The warming up is done by Heraeus fast response IR emitters with gold plating on the reverse side, which guarantee an efficient heat transfer onto the window!

The transport of the windows is realized with a 4 lane chain conveyor with support pins. The movement of the conveyor is done in an indexing mode in order to make sure that the windows always are placed in a perfect position, so the robot can place the windows onto the support pins. The surface temperature of the glass is measured by a pyrometer. If the set point of temperature is reached, the temperature is controlled by the pyrometer and remain on the set value until the indexing time ran out. Than the next step is done.