

Drying Ink on Integrated Circuits with a Model 5306 Infrared Strip Heater

Application

An OEM of automated integrated circuit handling equipment incorporating ink drying equipment to dry ink from a “strip pad printer” on a conveyORIZED system used to print integrated circuit manufacturers’ identification information on integrated circuits.

Problem

Limited Line Speed - The existing hot air oven incorporated into conveyORIZED machine limited line speeds.

Poor Quality - The hot air oven heated the entire integrated circuit, causing quality problems in some circuits.

Solution

Heat - A Model 5306 Infrared Strip Heater supplied the heat to dry the ink in the integrated circuits.

Power Control - A Model 664F Phase Angle SCR Power Controller controlled the power to the Infrared Strip Heater.

Benefits

Increased Line Speeds - Using the Model 5306 Infrared Line Heater to dry the ink increased line speeds.

Improved Quality - The Infrared Line Heater could be adjusted to heat only the printed area, improving the quality of the printed integrated circuits.

Well-Utilized Space - The OEM was able to decrease the overall length of the conveyORIZED system by using the Infrared Line Heater.

Decreased System Cost - The OEM’s overall manufacturing cost of the conveyORIZED system decreased.