

Heating Plastic with Model 5194 Infrared Line Heaters

Application

A toy manufacturer applying heat to remove excess plastic fray from plastic parts.

Problem

Environmental Concerns - Environmental issues forced the manufacturer to look for an alternative to heating the plastic fray with a gas-fired flash furnace.

Solution

Heat - Two Model 5194-10 Infrared Line Heaters were used to heat the plastic parts to remove the fray.

Power Control - A Model 5620 Phase Angle SCR Power Controller controlled the power to each of the heaters.

Instant On/Off - The quartz lamp in the Infrared Line Heaters heated up and cooled down instantly in response to power changes.

Benefits

Environmentally Safe - The Infrared Line Heater provided the manufacturer with an environmentally safe method of heating the plastic fray.

Responsive Heat Source - The design of the Infrared Line Heaters, combined with the instant on/off capability of the lamps, allowed the manufacturer to start and stop the heating process as required by the production line.

Adjustable Heat Output - The Phase Angle SCR Power Controllers made it easy for the manufacturer to adjust the heat output to match the requirements of different colored parts.

Cost Savings - With the new heating system, the manufacturer was able to run the heaters at 45-50 percent power and save approximately 35 percent in energy costs per year.