

Curing Rubber Coating on Steel with Model 4185 Infrared Strip Heaters

Application

A manufacturer curing a rubber coating on steel brake lines.

Problem

Slow Line Speed -

The existing gas oven being used to cure the rubber coating limited the line speed to 40 feet (12.2 meters) per minute.

Excessive Floor Space - The gas oven required 12 feet (3.7 meters) of valuable manufacturing floor space.

Environmental Concerns - OSHA/environmental issues were created by the gas oven.

Solution

Heat - Two Model 4185-38 Infrared Strip Heaters were used to apply heat to cure the rubber coating.

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

Instant On/Off - The Infrared Strip Heaters heated up and cooled down instantly based upon signals received from the SCR Power Controller.

Benefits

Faster Line Speed - With the Infrared Strip Heaters, line speed increased by 75 percent to 70 feet (21.34 meters) per minute.

Regained Floor Space - The manufacturer regained 8 feet (2.4 meters) of valuable floor space for other processes.

Environmentally Safe - The new heating process eliminated the OSHA/environmental issues associated with the gas oven that was replaced.

Flexible Heating System - The power to the Infrared Strip Heaters was easily adjusted by the Phase Angle SCR Power Controller when part size changed.

Responsive Heating System - The instant on/off capability of the heaters allowed the manufacturer to start the heating process without any warm-up time.