

Drying Solvent-Based Paint on Steel Strips with Model 4185 Infrared Strip Heaters

Application

A hand tool manufacturer drying solvent-based primer, top coating and varnish on steel strips.

Problem

Three Coatings - The different drying characteristics of the primer, top coating and varnish had to be accommodated by a single drying system on the paint line.

Lack of Floor Space - There was virtually no floor space to install an in-line drying system.

Line Speed - Line speeds of 60 feet (18 meters) per minute were required initially, with expected increases within 12 months.

Solution

Heat - Six Model 4185-25 Infrared Strip Heaters were used to dry the coatings in line.

Power Control - A Model 664K Phase Angle SCR Power Controller controlled the Infrared Strip Heaters.

Vertical Installation - The Infrared Strip Heaters were installed vertically using vertical burn lamps.

Benefits

Single Drying System - The versatility of the Model 4185 Infrared Strip Heaters allowed the manufacturer to dry all three coatings with a single drying system.

Well-Utilized Space - The vertical installation of the drying system did not use valuable floor space.

Fast Drying Time - All three coatings could be dried within 8 seconds and the required line speed was achieved.

Modular Design - The modular system design could handle future increases in line speed with an increase in the number of Infrared Strip Heaters used in the system.