



Gas Catalytic IR saves time in powder coating large agricultural parts

Heraeus Vulcan designed a new energy efficient powder coating system for Dikrt spol. s r.o. in cooperation with Surfin s.r.o., a distributor in the Czech Republic. The system is designed to cure powder on large agricultural parts, and the performance of the oven has exceeded expectations.

The customer was able to see an existing Heraeus Vulcan system at another location and carry out part testing. Heraeus Vulcan then designed the powder coating oven to meet the customer's requirements using SolidWorks. Heraeus Vulcan provided Surfin s.r.o with a package that included the sheet metal design, the Heraeus Vulcan infrared heaters and the controls. The system was then constructed at the Surfin factory, with the sheet metal parts being produced locally from the SolidWorks files. The new energy efficient powder coating system was then installed and commissioned at the customer's site within a few days.

The company's owner is very satisfied with the performance of the new oven: *"It used to take 70 minutes to cure our parts with the old convection oven. With the new Vulcan oven, it now takes only 12 minutes!"*



Features

- Powder Coating on large agricultural parts
- Curing of low bake polyester / epoxy powder coating
- Replacement of an convection oven
- Significant time savings (more than 80%)

Technical Data

- Gas Catalytic IR powder coat curing
- Agricultural components travel through the oven at 1.20ft/min
- Oven length: 16 feet, comprising of 2 sections at 8ft
- total dwell time of 12 minutes per component
- 24 heaters (16" x 60" each)
- Total connected load: 960,000 BTU/h, with 750,000 BTU/h during normal operation

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