

Case Study: Rail Vehicle Paint Facility

Project: New Spraybooth Facility

Client: Global aerospace and transportation company

Project Brief: To provide a new, energy efficient spraybooth for our client.



Following the success of numerous refurbishment projects the client decided to invest in a new facility to enhance the existing booths already on site. The new plant requirements were to maximise energy efficiency and minimise process time whilst providing the operators safe and comfortable working conditions.

The installation features LED lighting throughout, variable speed drives on motors, modulating gas burners and pneumatic lifts to give safe access to all areas of the booth.

The booth itself is 30.0m long comfortably enclosing a rail carriage. The equipment was designed and manufactured in our Staffordshire factory including the sophisticated controls and software systems.

The project has fulfilled all of the required criteria, saving energy, reducing cycle times, providing full availability and uptime in a simple to operate and intuitive package.

Plant Features:

- Energy efficiency
- Reliability
- Data Logging
- Temperature uniformity
- Controllable airflows

Facility comprising:

- Spraybooth and combined stoving oven
- Airflows and temperature rises designed to maximise throughput
- Capability of curing paint finishes at 80°C
- Flash off system to enhance drying of water based coatings

Unitech Machinery, Prospect Road, Burntwood, Staffordshire, WS7 0AL