

# GREENFIELD ENGINEERING INSTALLS £1.3 MILLION STATE-OF-THE-ART POWDER COATING LINE

Greenfield Engineering has taken a major leap forward in precision sheet metal finishing with the installation of a cutting-edge powder coating system. The new line combines a Wagner powder booth with an IPS coating centre and a TD Finishing system incorporating advanced pre-treatment, curing ovens, and an overhead conveyor. This investment is designed to reduce energy consumption, increase productivity, and deliver an exceptional quality finish.

For more than 25 years, Greenfield's two existing powder coating lines were serviced and maintained by TD Finishing. However, the outgoing plant, operating on double shifts for over 15 years had become inefficient and was nearing the end of its reliable production life. It's three-stage pre-treatment process could no longer meet durability and corrosion resistance requirements, while the drying and curing ovens were energy-intensive. Outdated application equipment, including an old feed centre and powder booth, also needed

replacing. The objective was clear: install the most advanced powder transfer technology available.

## The New System: Efficiency and Sustainability at Its Core

The TD Finishing system incorporates a five-stage spray pre-clean process in high-quality stainless steel, complete with automatic chemical dosing. It connects to a single-pass drying oven equipped with a heat recovery system that recycles



exhaust heat to pre-heat cleaning chemicals, optimizing energy use. A three-pass ceramic-lined curing oven further enhances thermal efficiency, reducing operating costs.

All components travel via an overhead monorail conveyor with a side-track system to prevent contamination. To ensure superior finish quality, a reverse osmosis mist spray provides a pure water final rinse before powder application. The line operates at variable speeds up to 2.5 metres per minute and accommodates components up to 1600mm (H) x 600mm (W) and can process lengths of up to 3200mm long.

## Why Wagner IPS? A UK First

Greenfield selected Wagner's IPS coating centre, the first of its kind in the UK, for its groundbreaking design. Unlike traditional systems, IPS is a fully automated, enclosed, and pressurised powder supply and color change system that eliminates pumps such as Venturi or pinch valves. This innovation ensures a consistent, high-density powder flow, even for high output rates over long periods of time.

The system features six guns on each side operating in automatic contouring mode, precisely following component profiles, while additional low-level guns coat the undersides of larger cabinets, reducing operator fatigue. Both the booth and software are pre-configured for future robotic integration, paving the way toward full automation.

## Customer Perspective

Daniel Green, Director at Greenfield

Engineering, explains:

"Our two TD Finishing plants served us well, but we reached a tipping point where reinvestment in a more efficient and sustainable system was essential. TD Finishing worked closely with us over two years to refine specifications and options. Installation was seamless, with clear timelines throughout.

For powder application, Wagner was the obvious choice. Their commitment to the UK market, backed by strong after-sales support, aligned perfectly with our philosophy of customer satisfaction. Their IPS technology was far ahead of anything else we reviewed."

Daniel adds:

"Neil Bourne, Business Development Director, and Lee Hull, Powder Division Manager, arranged trials at Wagner's Markdorf facility and site visits to IPS installations. After these evaluations, it was clear Wagner and TD Finishing were the right partners. Installation began in November, completed in December, and production started in January 2026. Since commissioning, we've been delighted with the plant's performance and the exceptional finish quality. The service and support from both Wagner and TD Finishing have set new standards in UK powder coating."

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