



Our Company

Since 2002 TD Finishing Ltd have specialised in the Specification, Design, Manufacture and Supply of Automated Paint Finishing Systems.

As a UK based business, formed in 2002, TD Finishing have installed plants worldwide.

We specialise in

- Bespoke finishing plant
- Wet paint
- Powder coating
- E'coat

Our Clients



The image shows a long industrial finishing line in a factory. Several large, stainless steel spray booths are arranged in a row. Metal parts, which appear to be brackets or frames, are hanging from a conveyor system that moves them through the booths. The booths are connected by a network of pipes and hoses. In the background, there are large silver ducts and other industrial equipment. The floor is concrete, and the ceiling has exposed steel beams and lighting fixtures. A blue motor unit is visible at the bottom of the line.

Pre-treatment - Finishing Systems

TD Finishing provide a wide range of online spray Pre-treatment systems, ranging from 2-stage degrease-phosphate and rinse to a 7-stage+ qualicoat approved for over 1,000 hours salt spray test finish.

Chemical treatments available for use on any range of substrate suitable for powder coating including Oxsilan and phosphate solutions



Pre-treatment plant shown
Stainless-steel – Oxsilan plant
1000 hours – 5 Stage
for contract powder coating

Pre-treatment - Finishing Systems

TD Finishing provide a wide range of Pre-treatment systems including multi-stage online as well as automated dip-tanks.

Plants ranging from 2-stage degrease-phosphate and rinse to a to 7-stage+ qualicoat approved for over 1,000 hours salt spray test finish.

Dip pre-treatment systems are also available with gantry crane and drying well ovens.





Ancillaries

Where required, equipment can be supplied with Reverse Osmosis Systems and PH correction providing clean water and effluent to suit your production needs.



Plant shown

3.5 stage degrease phosphate pretreatment, a double pass gas-fired drying oven and a double-pass gas-fired curing oven

Finishing Ovens

TD Finishing specialise in the supply of Air-recirculated Box batch ovens & conveyorized curing ovens, where continuous production is required.

Customized to suit the client's requirements, we offer Hi-Lo or fully-modulating (Gas & Air) indirect gas burners, overhead or flat-bed conveyor systems, PLC controls and touch screen monitoring.

Image shown:

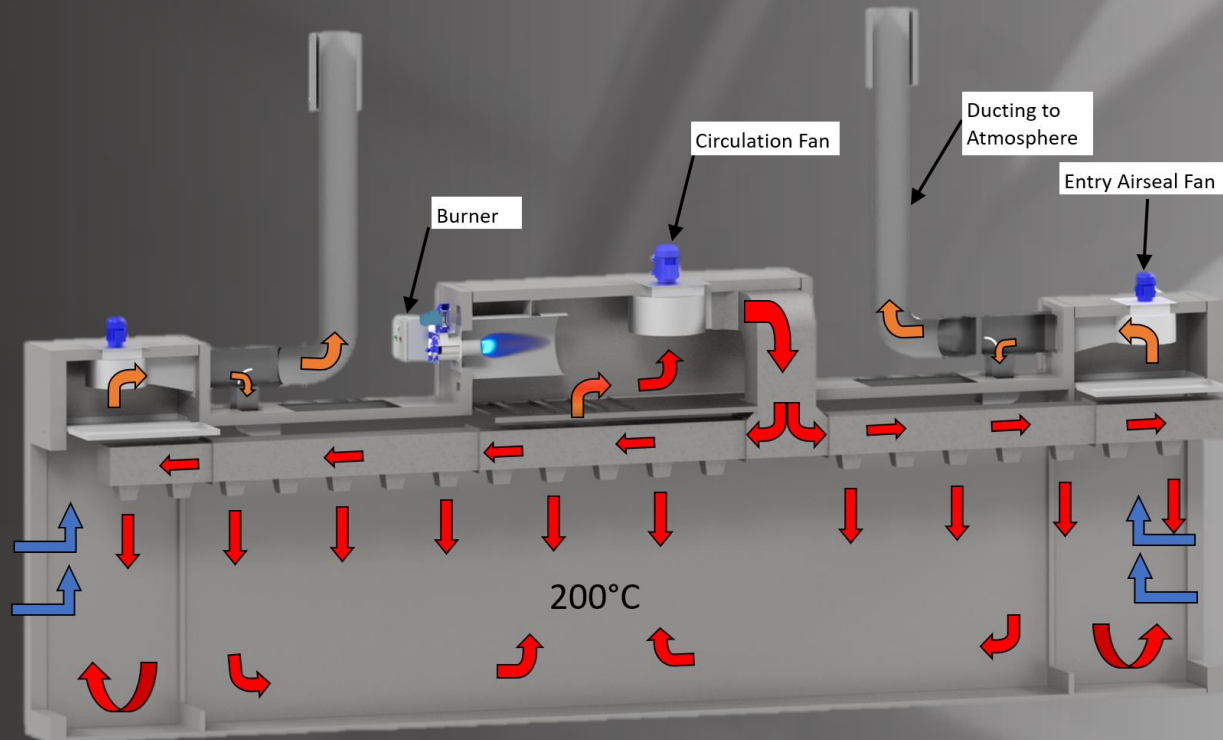
Large conveyorized Powder-curing oven during installation, with power and free conveyor system and double floor-mounted heater units



Oven Design

TD Finishing manufacture a wide range of industrial ovens, supplying a great number of industries including; rail, Oil & Gas, Defence, Marine and aerospace.

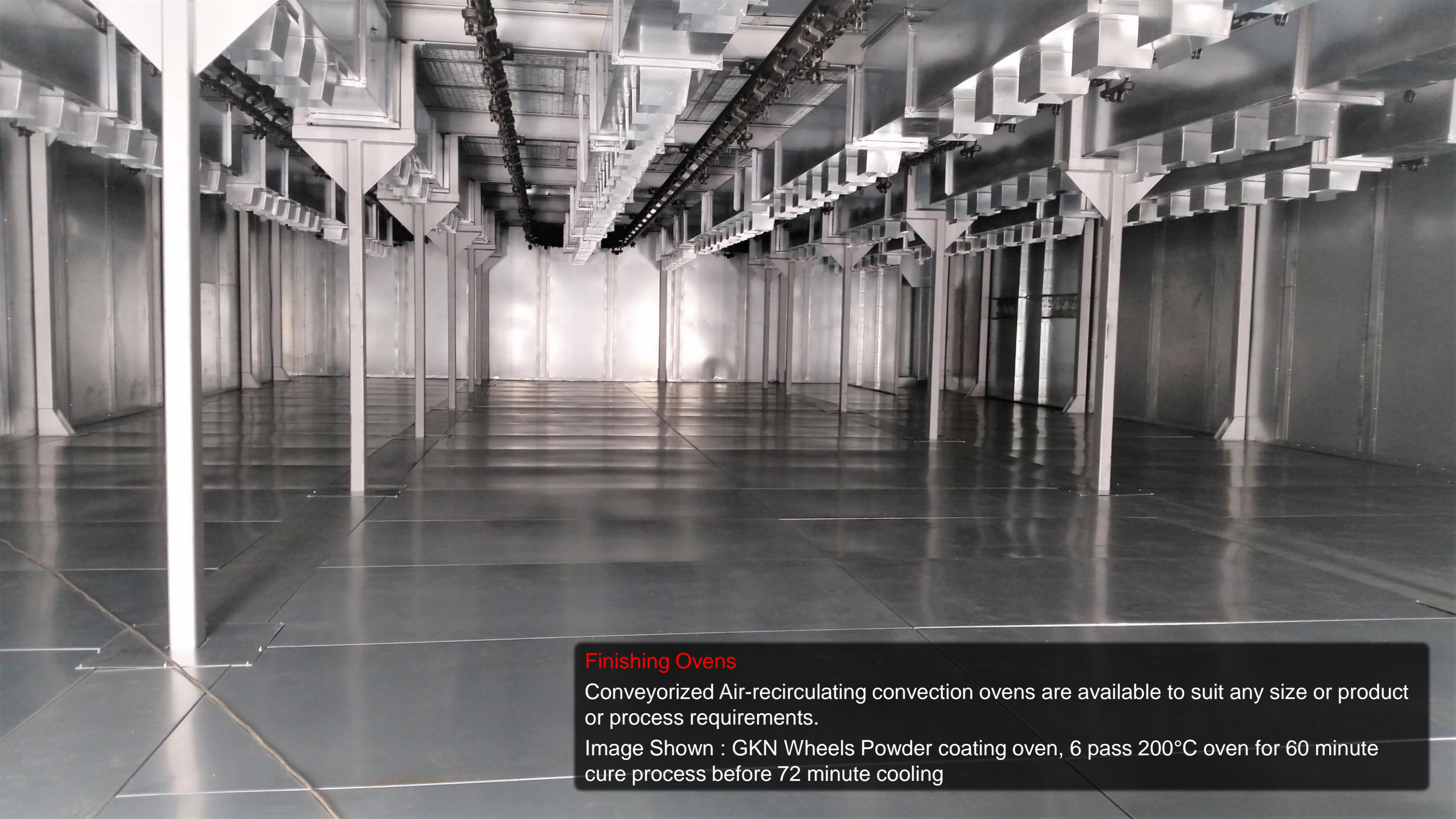
TD Finishing powder cure ovens are designed to produce the highest performance, 150 mm high-density insulation, negative pressure air seals and custom distribution ducting design all contribute to a close temperature uniformity, oven efficiency and a high-quality product finish.



Energy Efficiency

As a priority, td are focused on energy efficiency, and running costs. All equipment includes modern, highly-efficient package-gas burners. Where applicable, the burners supplied will be fully modulating Gas & Air.

Our electric Ovens and Dryers are supplied with high-efficiency stab-in heater packs and all electrical wiring is completed to a very high standard in line with the latest edition IEE Regulations.



Finishing Ovens

Conveyorized Air-recirculating convection ovens are available to suit any size or product or process requirements.

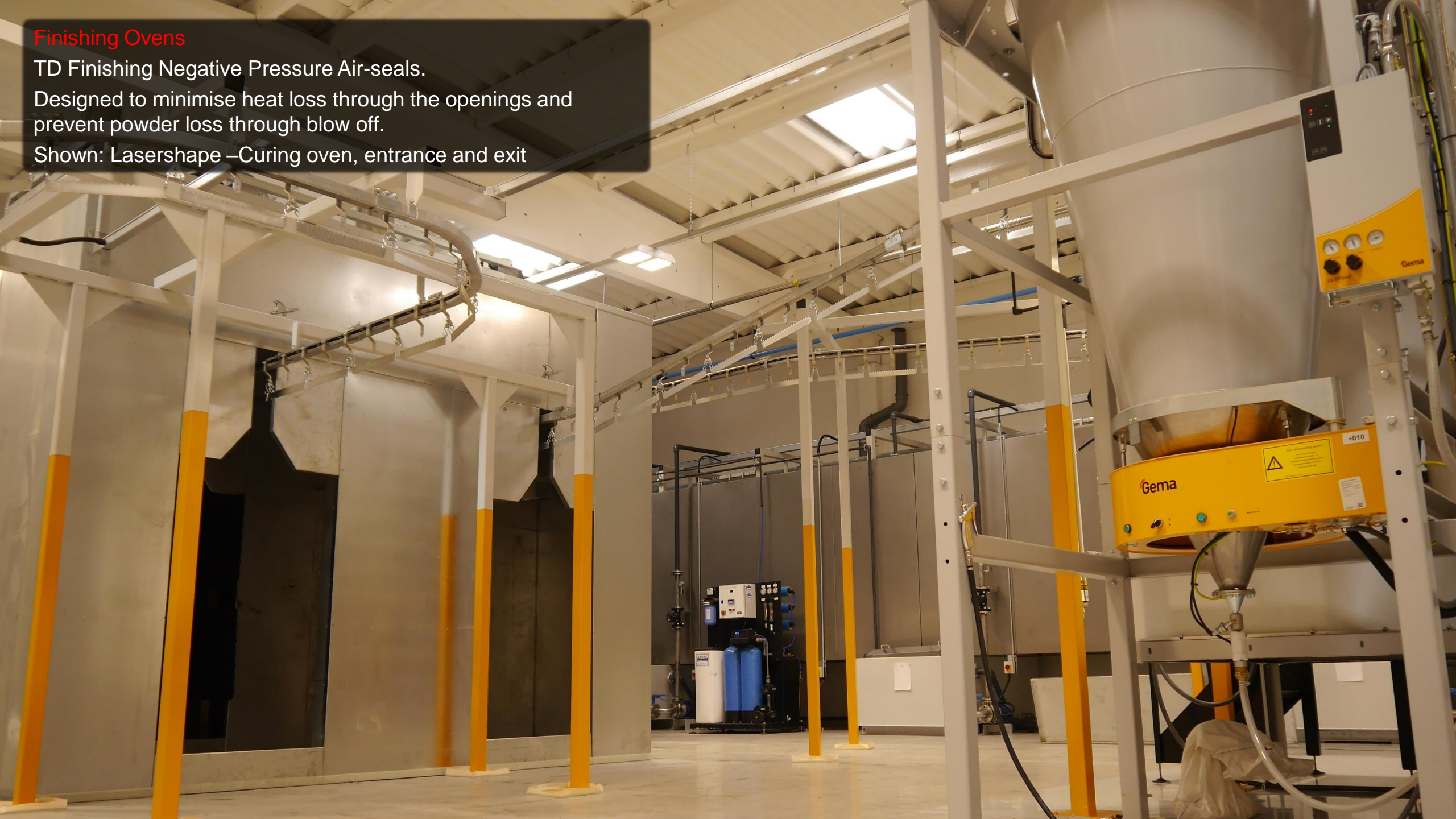
Image Shown : GKN Wheels Powder coating oven, 6 pass 200°C oven for 60 minute cure process before 72 minute cooling

Finishing Ovens

TD Finishing Negative Pressure Air-seals.

Designed to minimise heat loss through the openings and prevent powder loss through blow off.

Shown: Lasershape –Curing oven, entrance and exit

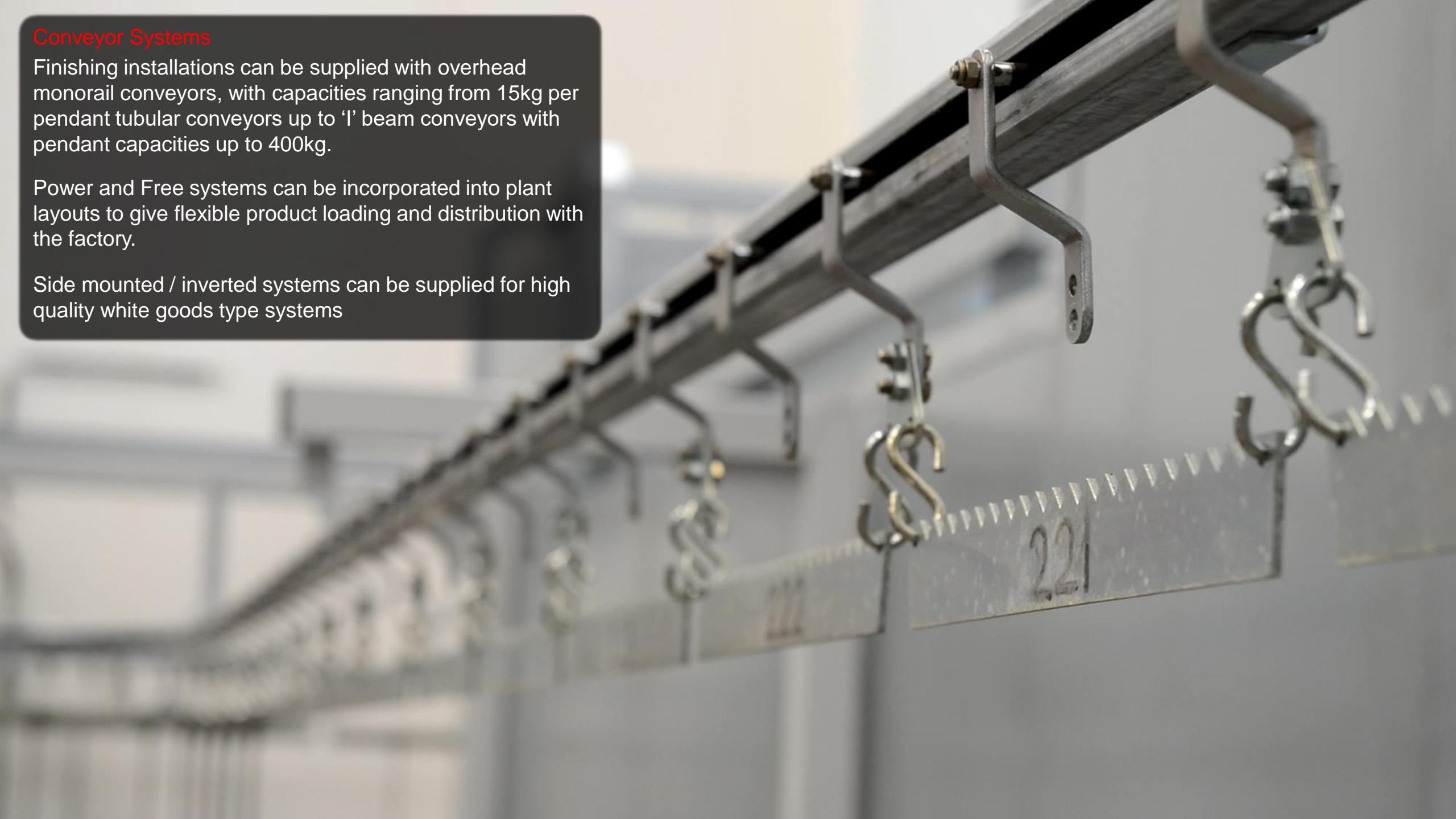


Conveyor Systems

Finishing installations can be supplied with overhead monorail conveyors, with capacities ranging from 15kg per pendant tubular conveyors up to 'I' beam conveyors with pendant capacities up to 400kg.

Power and Free systems can be incorporated into plant layouts to give flexible product loading and distribution with the factory.

Side mounted / inverted systems can be supplied for high quality white goods type systems



Heavy Duty Open Chain Conveyor System



Heavy Duty Side Mounted Conveyor System



Automation

For powder application TD Finishing work with leading Spray booth manufactures to provide turnkey automated systems. Including automatic coating, no-part no-spray pre-treatment, chemical dosing, as well as power and free conveyor systems.

As with powder, TD Finishing also offer plant solutions for the wet-spray market. Including Spray-booths, Robots, auto paint-plant, paint kitchens, flash-off areas, and infrared curing ovens among others.



Quality

TD Finishing excel in the provision of high-quality, reliable and robust systems.

We know that your customers demand excellent and consistent finished product. Which our installations are built to provide, so no matter if it's doors, cars, furniture or bikes. td can supply a system to suit your product, your factory and to satisfy your customers.

Control Systems

TD Finishing supply both floor-standing and wall-mounted electrical control panels for a full range of paint plant.

Whether supplying customers with new equipment or replacing their existing controls, options can include modern, touch screen, PLC/PC monitoring systems, digital temperature, chart recorders and mimic panel displays.

Where required, we can even include existing plant equipment in a new TD Finishing control panel.



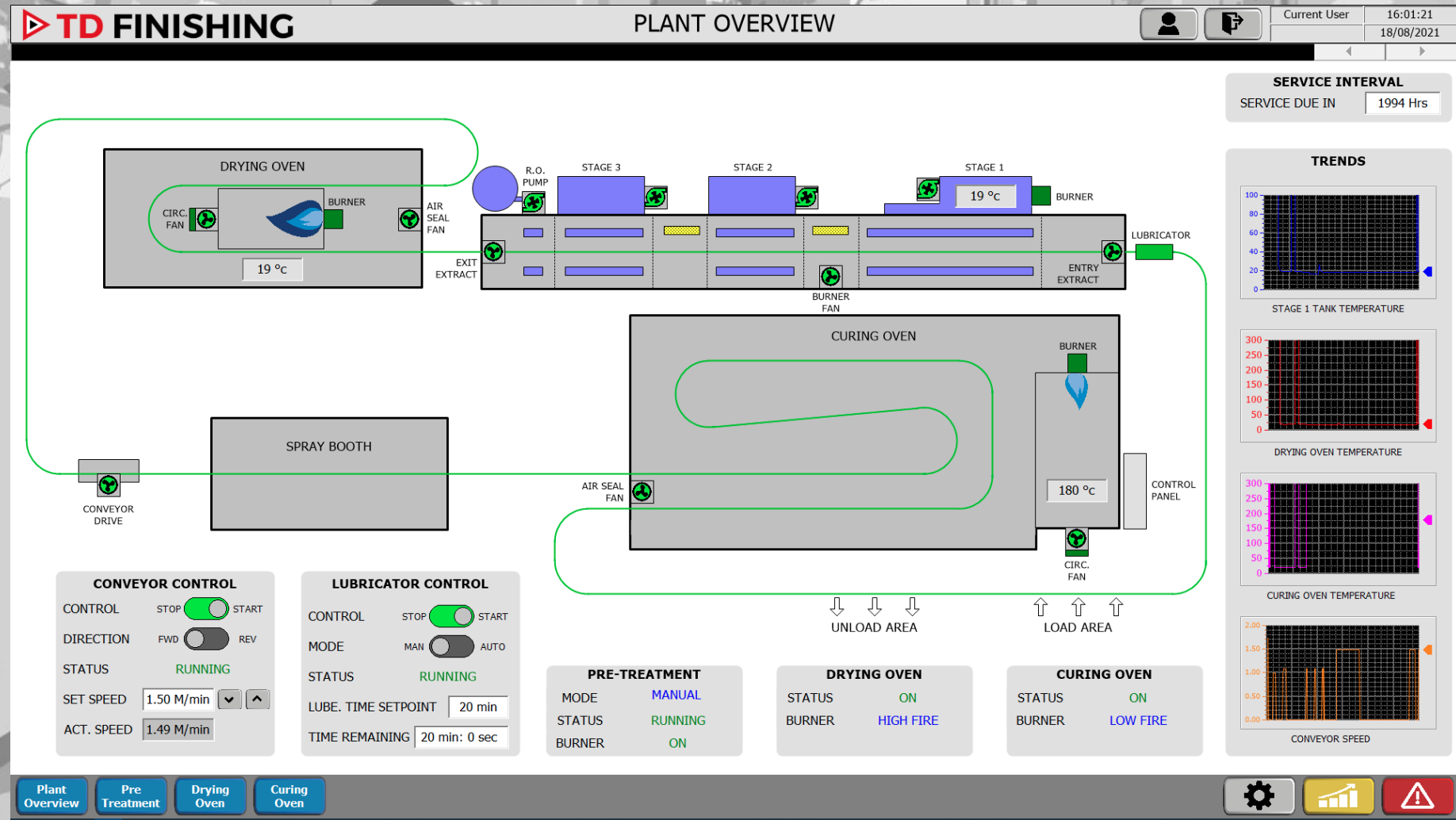
Control Systems

TD Finishing equipment is available with full PLC control to industry 4.0 standards, allowing for recording and viewing in real time the status of your facility.

Trends graphs and alarms can easily be viewed in real time or as historical data.

All PLC control systems are supported by an industrial PC based HMI running the latest Windows OS with enhanced networking capabilities.

Giving readings of among other things: purge timers, set-point, current temperature, conveyor status, and well as fan / burners / pumps running. All of which can be recorded and supplied with your finished product to improve quality control.

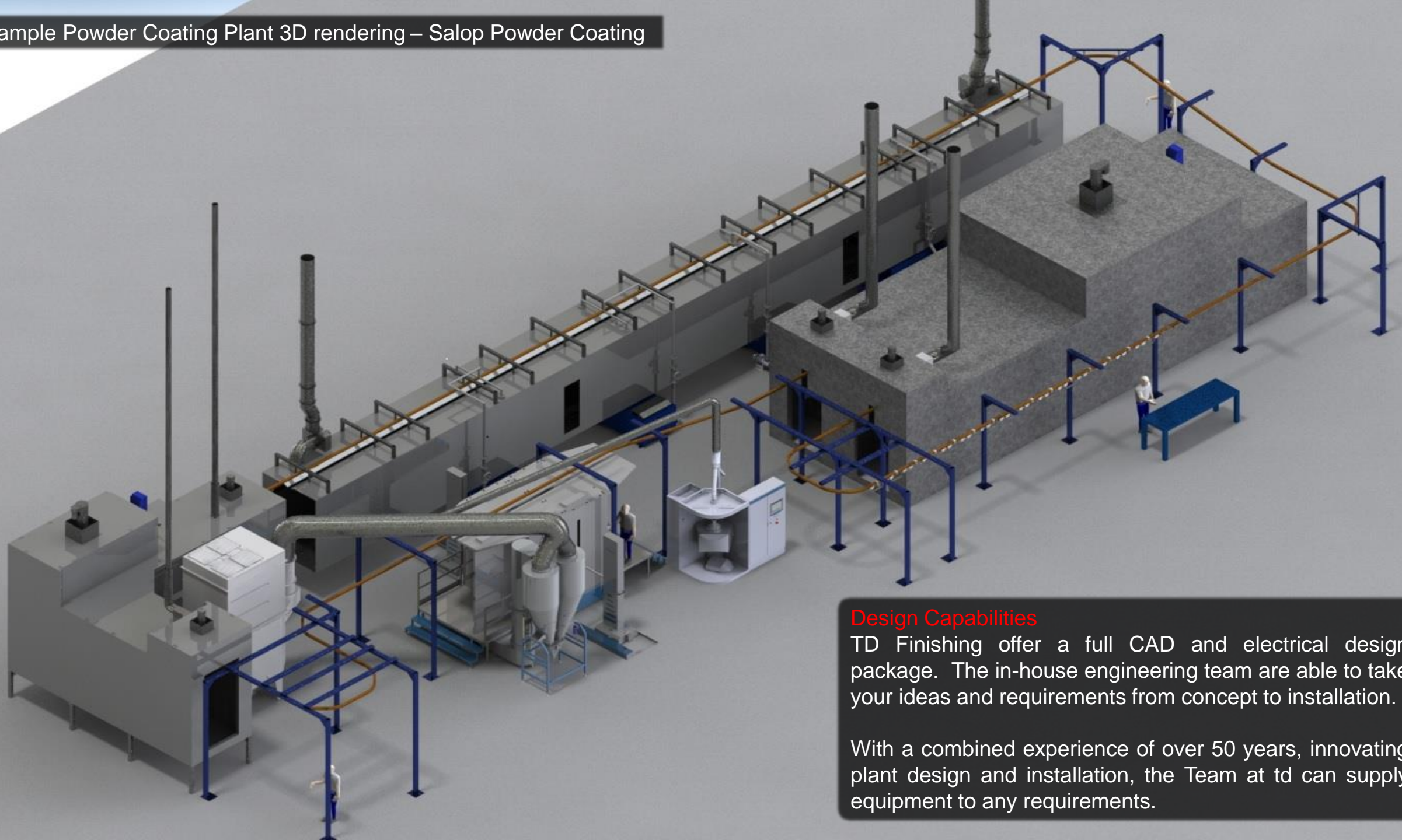




Control Systems

Brompton Cycles Control Panel for Pre-treat, drying oven, curing oven and conveyor system.

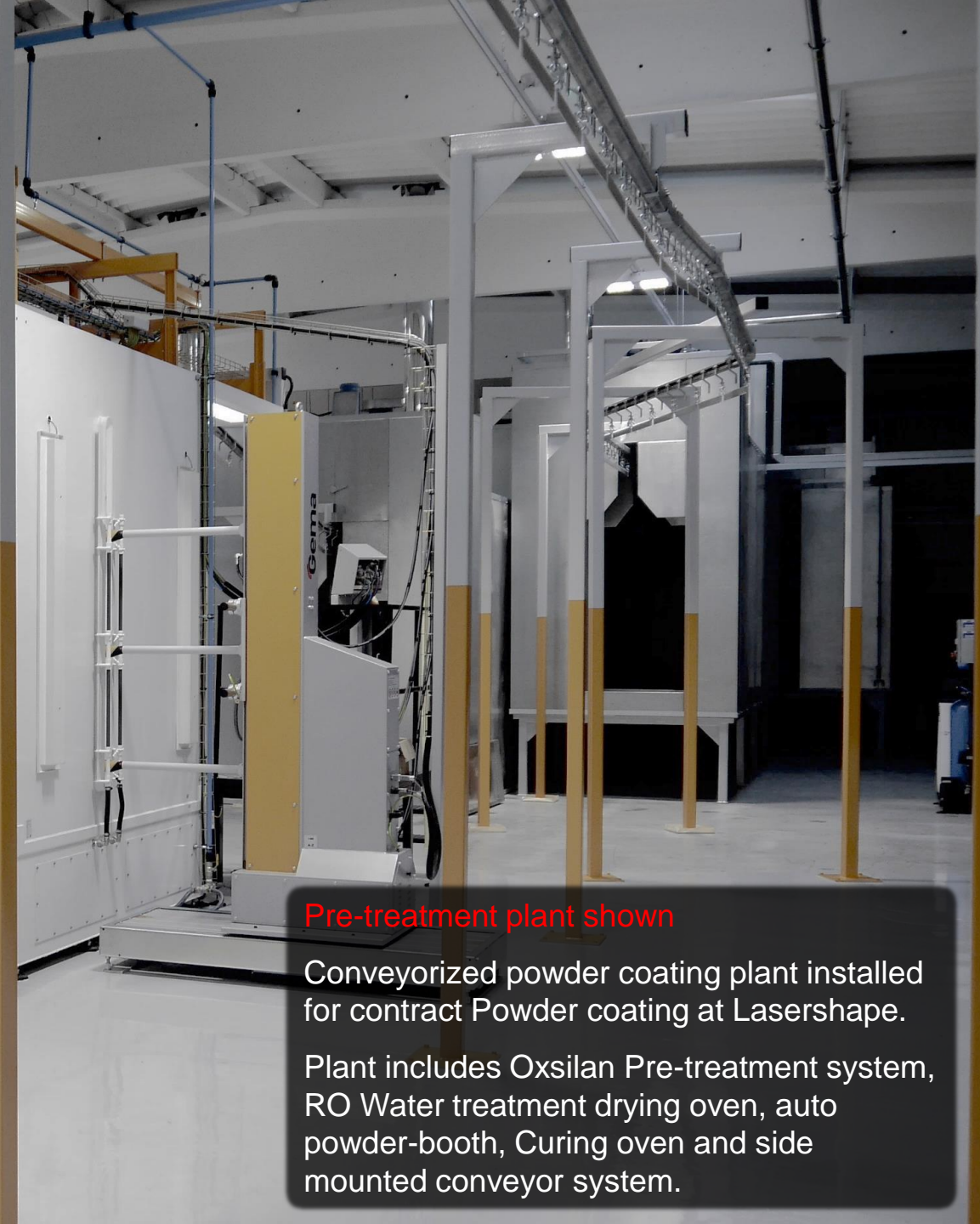
Example Powder Coating Plant 3D rendering – Salop Powder Coating



Design Capabilities

TD Finishing offer a full CAD and electrical design package. The in-house engineering team are able to take your ideas and requirements from concept to installation.

With a combined experience of over 50 years, innovating plant design and installation, the Team at td can supply equipment to any requirements.



Pre-treatment plant shown

Conveyorized powder coating plant installed for contract Powder coating at Lasershape.

Plant includes Oxsilan Pre-treatment system, RO Water treatment drying oven, auto powder-booth, Curing oven and side mounted conveyor system.



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