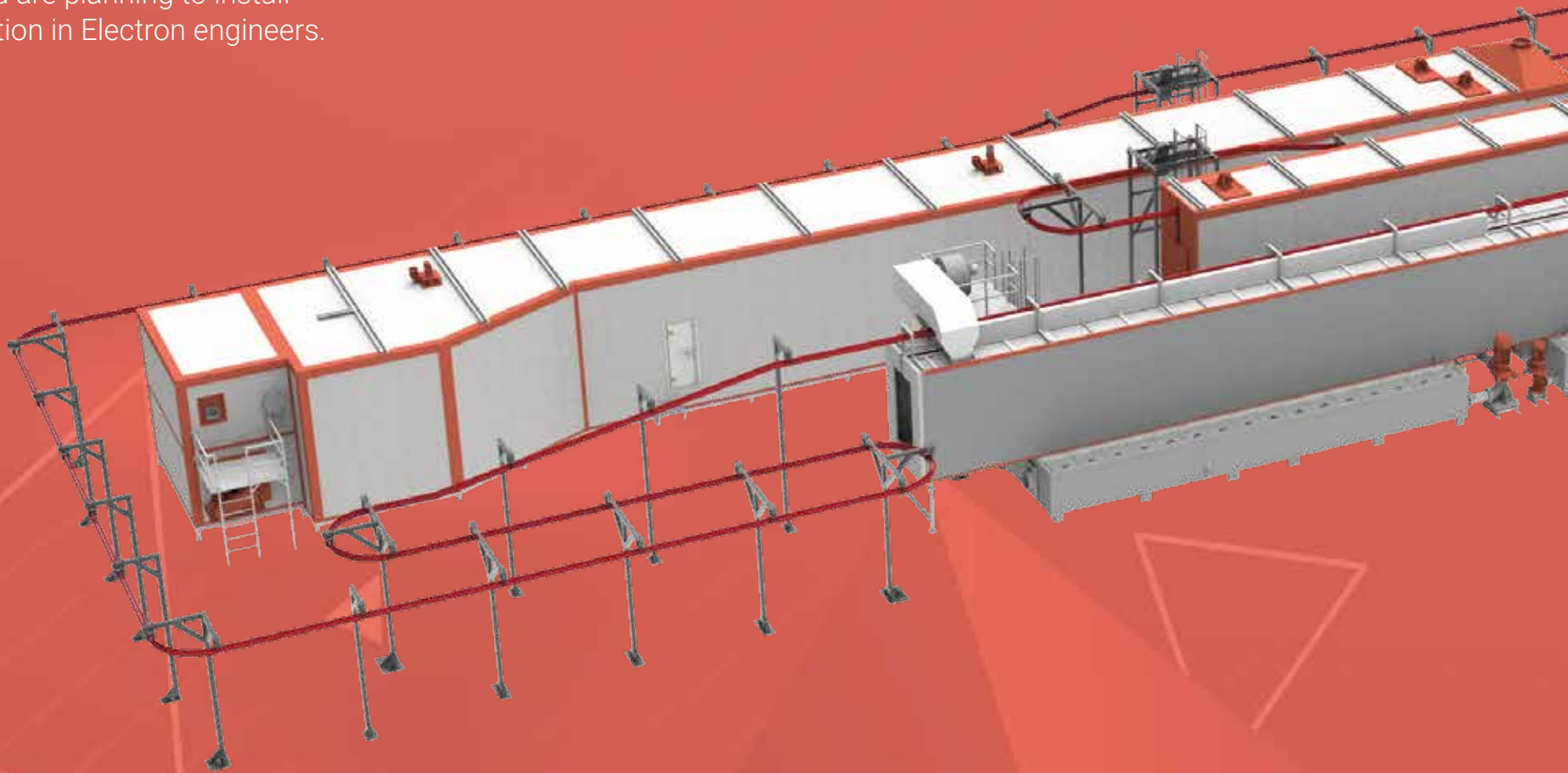
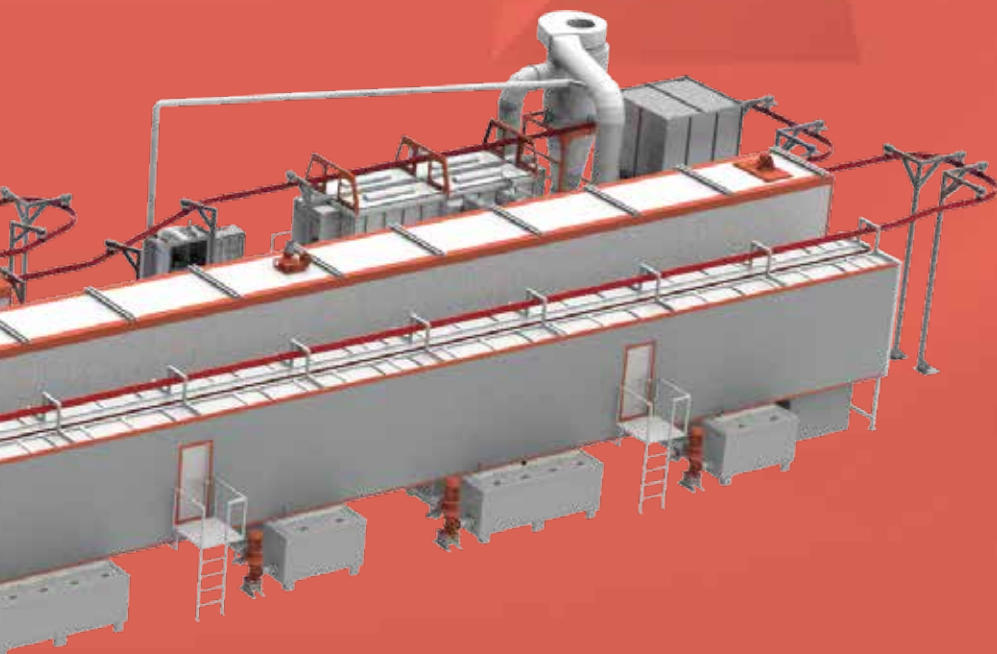


COATING SYSTEMS

No matter how challenging the powder coating systems you are planning to install are, you have a solution in Electron engineers.





Pretreatment Systems 60

Drying & Curing Ovens 61

Powder Coating Application Booths 62

Liquid Painting Application Booths 63

Conveyor Systems 64

Cataphoresis Systems 65

PRETREATMENT Systems

COATING SYSTEMS

Surface Cleaning Systems play a critical role in the success of coating operations. Correct surface preparation significantly affects the adherence and protective properties of the coating. These systems effectively perform the degreasing, etching and phosphating processes required to prepare the parts for painting processes.

- + **Minimum Chemical and Water Consumption:** Environmentally friendly operations and reducing operating costs.
- + **Maximum Energy Saving and High Efficiency:** Energy efficiency with advanced technology heating and insulation systems.
- + **Modern Security Applications:** Safe working environment in compliance with CE standards.
- + **Tailored Solutions:** Customizable design and functionality to suit each customer's specific needs.
- + Our surface cleaning systems offer high-performance and reliable solutions, where every detail is carefully designed by the technical team. Each project is developed specifically taking into account the customer's production conditions and needs, thus ensuring optimal results.



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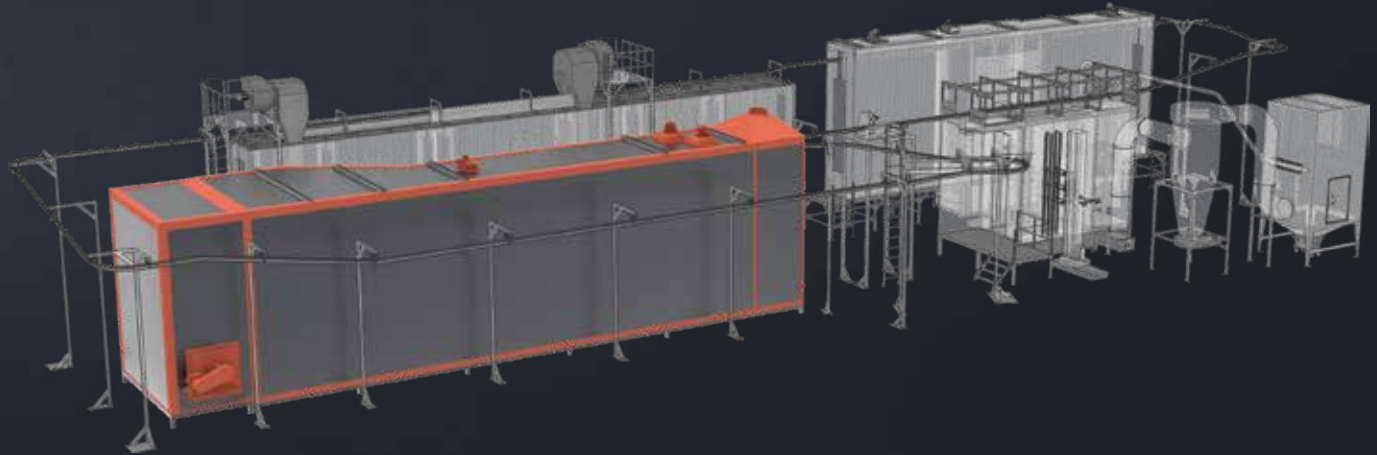
DRYING AND CURING Ovens

COATING SYSTEMS



Drying and Curing Ovens are one of the most important stages in the coating processes. It is used to dry or cure the powder or coating on the processed parts at the desired temperature and time. This process directly affects the durability, adherence and surface quality of the coating.

- + **Band Ovens:** It is ideal for continuous operations and is often used in mass production lines.
- + **Box Type Ovens:** Available in adjustable sizes suitable for parts of different sizes.
- + **Dipping Type Oven:** It is especially preferred in heat treatment processes of metal parts.
- + **Tunnel Type & U-Turn Continuous Ovens:** Space-saving designs for long, narrow passages.
- + **Step Oven:** It allows temperature adjustment at different stages and is suitable for special processes.
- + **IR Ovens:** It provides fast and effective drying using short wave infrared heaters.
- + **High Temperature Non-Stick Baking Ovens:** It is designed specifically for non-stick coatings and can operate at temperatures between 300°C and 600°C.



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POWDER COATING APPLICATION Systems

COATING SYSTEMS

Powder Coating Booths are vital for powder applications in production processes. The aim is to protect human health and maximize powder savings. Ergonomic designs and demountable structures provide easy installation and maintenance.

- + **Maximum Energy Saving:** Advanced technology insulation and energy efficient designs.
- + **Emission Amounts Compliant with CE Standards:** Environmentally friendly operations.
- + **Fast Color Change:** Flexibility and time savings in production processes.
- + **High Powder Retention Percentage:** Minimum powder loss and high quality coating.
- + **Sound Insulation Compliant with CE Standards:** Increases the comfort of the working environment.
- + Each powder coating booth model is designed to increase efficiency and quality in industrial coating processes, ensuring excellent results in your production processes.



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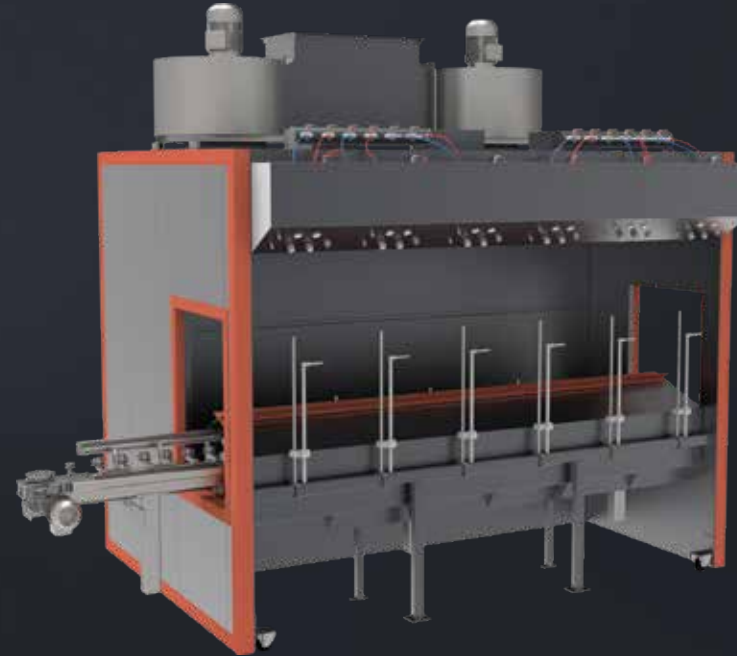
LIQUID PAINTING APPLICATION Booths

COATING SYSTEMS



Liquid Painting Application Booths have a wide range of applications and are designed to work compatible with various paints. These booths create the necessary environment to ensure efficient and high-quality painting of parts.

- + **Heating and Cooling Options:** Heat control to ensure ideal painting temperature and fast drying processes.
- + **High Ratio Paint Retention and Separation:** It prevents paint waste and provides clean air emissions with effective filtration systems.
- + **Maximum Energy Saving:** Insulation and energy-saving equipment that contributes to energy efficiency.
- + **Emission Amounts Compliant with CE Standards:** Environmentally friendly operations in line with European standards.
- + Liquid paint applications booths are suitable for non-stick and ceramic paints, especially solvent-based and water-based paints, primers, topcoats and special applications. When combined with modules such as flash-off chamber, positive pressure chamber and curing oven, complete systems are created to suit customers' needs. These systems increase the efficiency and product quality of businesses while also helping to reduce operating costs.



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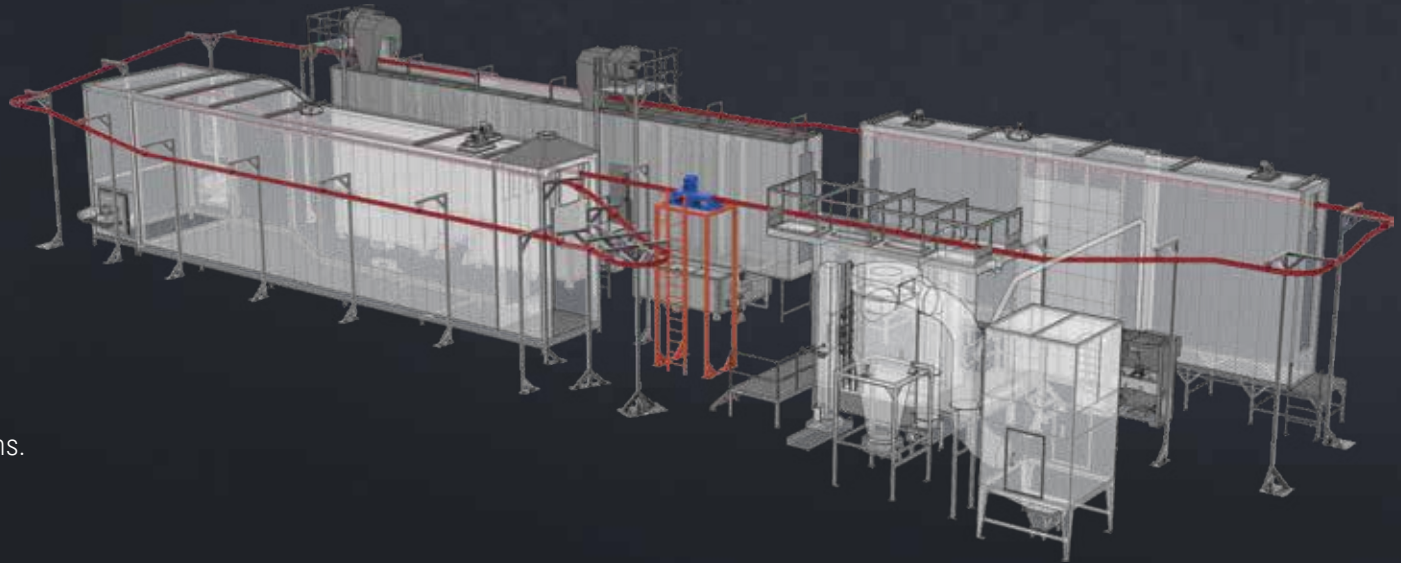
CONVEYOR Systems

COATING SYSTEMS

Conveyor Systems are one of the most important components used in the facilities. Webb, Cardan, Power & Free, and Busbar Transfer conveyor systems carry the painted components many kilometers annually and have an important task.

Heavy workpieces are transported by Webb type conveyor consisting of long life bearings and steel cast chains. It has a large carrying capacity between 120 kg and 2 tons.

- + Contains long-lasting bearings and strong cast steel chains.
- + Provides solutions suitable for modern production requirements with different automation options.
- + It minimizes the need for maintenance with its automatic lubrication features.
- + Customizable design and functionality to suit each customer's specific needs.
- + These conveyor systems are designed for long-term and trouble-free operation while increasing the efficiency and safety of production processes in facilities. High-quality components and customizable features enable these systems to adapt to any production environment and provide optimum performance.



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CATAPHORESIS Systems

COATING SYSTEMS



Special coating method aiming to provide high corrosion resistance. This method is widely used especially in the automotive and heavy machinery industries. Generally applied as a primer before powder or wet paint, using electrical potential difference in surface adhesion.

The process begins by cleaning the surface of any dirt, oil, oxide layer or other foreign matter. Cleaned materials are immersed in an electrically charged cataphoresis bath using conveyor systems or vertical movement mechanisms. In this bath, thanks to the applied electrical potential difference, the paint particles are attracted to the surface of the material and form a tight bond.

Similar to the other coating systems, Cataphoresis Systems are specially designed according to the needs and expectations of our customers.



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