THE +3 NEW

GENERATION

POWDER COATING EQUIPMENTS

Electron

E-COAT+3 PRO
SERIES

Powder Coating Equipments

Electron

E-COAT+3 PRO Series devices are very efficient and intelligent with the availablity to set the current and voltage values and use the manometer and regulator in common. **E-COAT+3 PRO** Series, with its working options in itself Smooth Surface Coating, Second Layer Coating, Difficult Surface Coating, is capable to keep 50 different receipts in its memory

SERIES

- E-COAT+3 PRO H (Hopper)
- E-COAT+3 PRO M (Multicolor)
- E-COAT+3 PRO B (Bare Type)

Bare Type

Powder Coating Injector

Rotatable Head

E-FEED+3 INJ

E-COAT+3

E-COAT+3 MASTER
SERIES

Powder Coating Equipments

Electron

The **E-COAT+3 MASTER** Series devices are available to set up its electrical and pneumatical values via the PLC screen and are adaptable to the automation. With high coating performance it is capable of fast coating of difficult surfaces, has 50 different receipt saving memories, a double-action-trigger to recall the previous receipt and is availabe to set up from the back side of the gun. It also gets remote-connected and will work with the maximum highest performance. On the device itself, it has options as Smooth Surface Coating, Second Layer Coating and Difficult Surface Coating.

SERIES

- E-COAT+3 MASTER H (Hopper)
- E-COAT+3 MASTER M (Multicolor)
- E-COAT+3 MASTER B (Bare Type)

Bare Type

Powder Coating Injector

Larger TFT Screen

Rotatable Head

E-FEED+3 INJ

120 kV/120 mA
Bluetooth Compatible
5.0" TFT Screen

E-COAT+3

LED LIGHT

E-CONNECT

E-COAT+3 MASTER P
SERIES

Powder Coating Equipments

Electron

The **E-COAT+3 AP MASTER** Series range of equipment is suitable for both manual and automatic applications. The AP Series rapidly applies powder on difficult coating surfaces, due to the dense phase powder feed pump. The dense phase transportation of powder allows the user precise control of the velocity of the powder on to the part. Coating thickness is easily achieved with repeatability and control due to the elimination of the Venturi Style pump. The Electron Master **E-FEED+3 AP** pump allows the user to achieve the best possible finish with ultimate control.
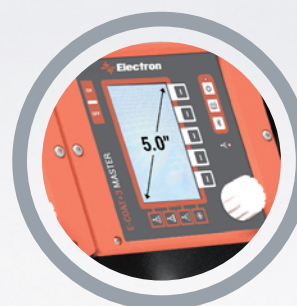
P Series | Master Pump Series

- E-COAT+3 MASTER H (Hopper)
- E-COAT+3 MASTER M (Multicolor)
- E-COAT+3 MASTER B (Bare Type)

Optional | Double Pump

- E-COAT+3 MASTER P2-B (Bare Type)
- E-COAT+3 MASTER P2-A (Automatic)
- E-COAT+3 MASTER P2-H (Hopper)
- E-COAT+3 MASTER P2-M (Multicolor)

Larger
TFT Screen

Double & Single
Pump Compatibility

Rotatable Head

Bare Type

120 kV/120 mA
Bluetooth Compatible
5.0" TFT Screen

E-FEED+3 AP

E-COAT+3

LED LIGHT

E-CONNECT

TSEK · PCT · CE · Ex · UKAS

E-GUN+3 SERIES

Automatic and Manual Guns

Electron

Changes the signals sent from the **E-COAT+3 Series** powder coating control unit, to static electrical energy and provides the control unit with the necessary feedback signals. With the help of various types of nozzles, coats different types of products with a high precision and efficiency.

Voltage Multiplier System that provides feed-back signals

Safety working conditions with the special PUR sheathed cable

Quick hose/colour change with its quick adapter of powder coating hose

ATEX II 2 D, IP64 type protection class

The LED technology makes it easier to see your parts in any environment.

With the help of its body coated with anti-static additive compatible to Explosive Athmosphere Directives

Maximum user-comfort even in long term operations with its 505 gr weight and new generation ergonomic structure in manual types

Easy cleaning with its special design electrode and nozzle types

Ability to apply various types of powders on different products with **E-GUN+3** Corona ion-collector and different nozzle options with angle and various patterns

E-FEED+3 SERIES

Electron

Powder Coating Transfer Pump

E-FEED+3 PM1

PM1 Series equipment is suitable for semi-automatic color change applications. The lean design lets you utilise the production floor space. Smooth and effective powder distribution. Used with an Exhaust System such as Electron Filter Groups.Best solution for continuous productions under rare color change cycles pershift conditions.

PM120 / PM130
up to 20 injectors
up to 30 injectors

PM124P
up to 24
application pumps

E-FEED+3 PM3

PM3 Series equipment is Electron's most advanced powder management center. Fast and through cleaning. The lean design lets you utilise the production floor space. The guided interface makes it easier to use the system. Smooth and effective powder distribution. The system is fully encapsulated against any powder leakage. Used with an Exhaust System such as Electron Filter Groups. Best solution for continuous productions under dense color change cycles pershift conditions.

PM324
up to 24
application pumps

PM330
up to 30
injectors

E-FEED+3 PM2

PM2 Series powder management centers are produced for automatic applications. Fast cleaning feature. Provides effective and homogeneous powder transfer. Plays an important role in the high-quality painting of your products.Used with an Exhaust System such as Electron Filter Groups. Thanks to its movable mechanism, it provides automatic cleaning of the system by applying air directly to the injector line. Best solution for continuous productions under moderate color change cycles pershift conditions.

PM220 / PM 230
up to 20 injectors
up to 30 injectors

E-FEED+3 ACCESSORIES
SERIES

Powder Coating Transfer Pump

Electron

E-FEED+3 HD

POWDER TRANSFER PUMP

E-FEED+3 AP-D

DOUBLE PUMP

E-FEED+3 AP-S

SINGLE PUMP

E-FEED+3 INJ

POWDER COATING INJECTOR

E-FEED+3 HD is a pneumatic pump transferring powder coating from one station to another with very high efficiency. It works according to "high density, low velocity" principle and consists of two sections; a "Powder Transfer Unit" and a "Control Panel". It has an ultra fast self-cleaning function which provides cleaning in a few seconds by the help of smooth inner surface and special material used. Replacement parts are changeable without stopping the pump by the help of quick connection design of replacement to the body of unit.

The **E-FEED+3 AP** Series rapidly applies powder on difficult coating surfaces, due to the dense phase powder feed technology. The dense phase transportation of powder allows the user to precisely control of the velocity of the powder on to the part. Coating thickness is easily achieved with repeatability and control due to the elimination of the Venturi air consumption. The Electron Master **E-FEED+3 AP-D** pump allows the user to achieve the best possible finish with ultimate control. Up to 950 gr/min powder output

The **E-FEED+3 AP** Series rapidly applies powder on difficult coating surfaces, due to the dense phase powder feed technology. The dense phase transportation of powder allows the user to precisely control of the velocity of the powder on to the part. Coating thickness is easily achieved with repeatability and control due to the elimination of the Venturi air consumption. The Electron Master **E-FEED+3 AP-S** pump allows the user to achieve the best possible finish with ultimate control. Up to 550 gr/min powder output

The Electron **E-FEED+3** VS Series injector is suitable for both manual and automatic applications. Thanks to its sequential structure, the Electrons 3. generation powder coating injector distributes 25% more paint and consumes 10% less air than the right angled injectors. Homogeneous painting provides an optimal painting solution thanks to its energy efficiency and easy maintenance.

E-ROBOT+3
SERIES

Reciprocators

Electron

The **E-ROBOT+3** Series ensures that you always get the same quality, quickly and precisely painted products. It increases production efficiency and saves paint and energy.

Get a perfect finish with consistent uniform film thickness.

Speed-up your production.

Smooth Surface Coating thanks to its high precision drivetrain

Quick operation change with pre-programmable option settings for automatic selections of stroke and speed.

Controls Up to 8 different with its unique **E-DRIVE+3** axis controllers.

E-ROBOT+3 3D
SERIES
Reciprocators

Electron

E-Robot+3 **3D** is designed to paint complex geometric shapes. The guns move according to the existing geometric shape and paint with precision. In this way, it allows you to save paint and energy. The LIDAR sensors subtract the distance from the product and, depending on the distance, carry this data to the guns. As for the painting area, the guns are activated in accordance with the geometry and the painting process is performed.
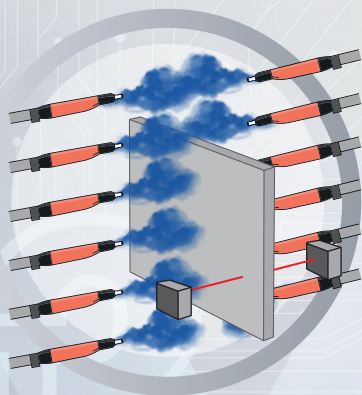
+ Max. 8 guns with **E-AXIS+3 1D** Series

+ Quiet and smooth running along the toothed belt.

+ Designed for complex application demands and difficult part geometries

+ Ability to work in long and short stroke

+ Slim column design allows space-saving arrangement of guns

+ 200 mm vertical gun spacing maximizes the effectiveness of separate axis scope into recessed areas by reducing the distance between coating zones

+ Industrial communication technology integrated into the controller for performance feedback and monitoring

+ Simple graphic display on **E-CONTROL+3** Smart provides ease of adjustment and program storage

+ Automatic gun and gun arm up to 10 kg load.

E-SENSE+3
SERIES
Part Identification Systems
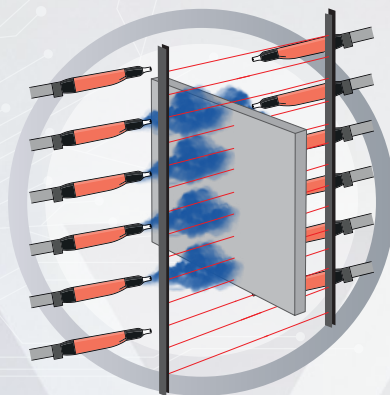
Electron

E-SENSE+3 BASIC

Gap Detection

Automatic reciprocator stroke control depending on the gun configuration

Automatic reciprocator speed control depending on the conveyor speed when enabled
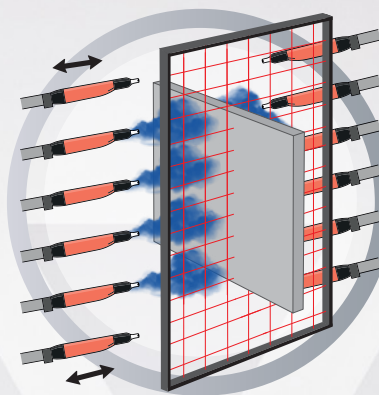
E-SENSE+3 2D

Vertical Part Detection Systems

E-SENSE+3 is a part detection supervised automated painting control system where all the equipments of the painting system is controlled by a main PLC based controller depending on the signals received from the sensors.
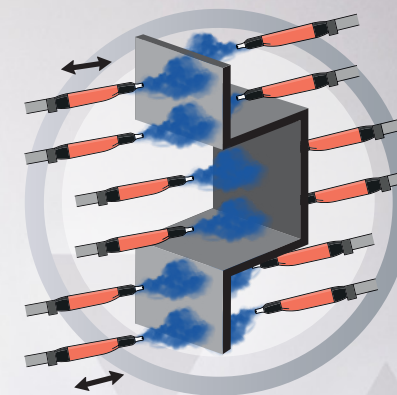
Reciprocators move and adjust themselves depending on the part height, distance and speed automatically

Full Part Detection System

With the Full Part Detection System, the proximity level of the guns to the part is controlled in accordance with the thickness of the part. Thanks to the horizontal axis reciprocator (**E-ROBOT+3 X**), the powder coating is performed at the optimum close point.

E-SENSE+3 3D

Dynamic Countour Detection

The laser sensors used create the two-dimensional geometry of the part. This information is processed by the electrical control by creating 3D information with the information coming from the encoder. The guns are positioned independently according to the 3D data.

No matter how complex the part geometry is, it is ensured that the distance between the workpiece and the guns is always constant. In this way, the need for manual retouching is minimized, the paint consumption is reduced, and the workpiece is coated with a homogeneous thickness distribution.
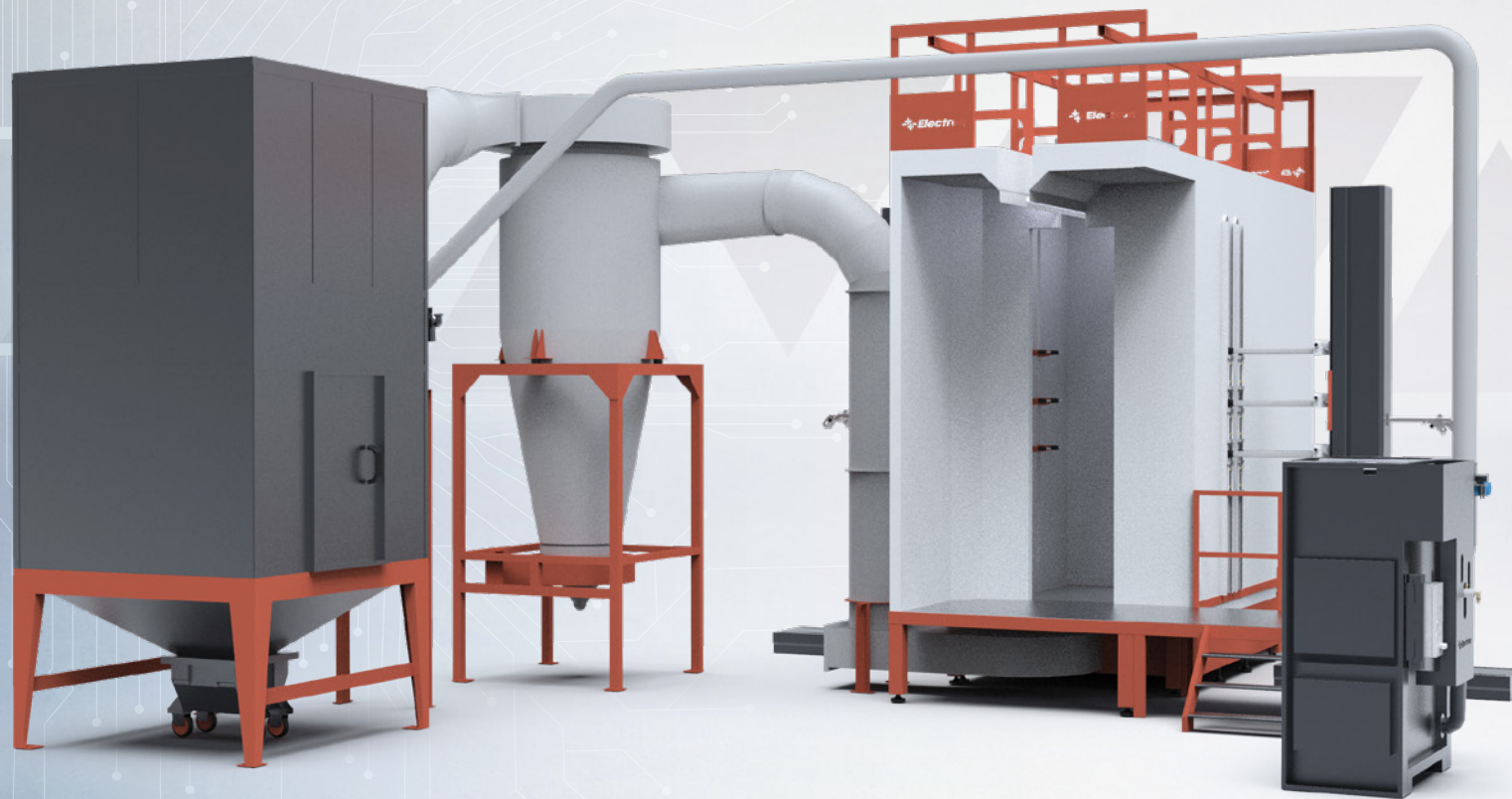
E-BOOTH+3
COLORX
Power Coating Booth

Electron

COLORX Series powder coating booths are produced from antistatic pvc material. Thanks to its smooth and slippery surface, it offers faster and comprehensive cleaning. It allows you to save in terms of time and paint. It is suitable for manual and automatic applications. Its compact design allows operators to easily control the booths. It is the best solution for continuous production. The part detection systems **E-SENSE+3** Series that we offer as an option can detect gaps, height and width. It is programmed to provide the best savings and the best paint quality according to the shape of each product to be painted. Optionally, **E-CONTROL+3** Smart connection and Fire Suppression Systems are available.

+ Full Automatic and Through Cleaning

+ Lean Design

+ Fast Colour Change

+ User Friendly Interface

+ Antistatic PVC Body

+ Homogeneous Powder Flow

+ Mobile Control Panel (Optional)

+ High Powder Usage Efficiency

+ Excellent Coating Quality

+ Part Detection System (Optional)

+ Fire Extinguishing System (Optional)

+ 2014/34/EU

+ Standard: EN16985: 2018

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+ + Electron