

COMPANY PRESENTATION

AUTOMATIC & MANUAL POWDER COATING APPLICATION EQUIPMENT

2020

 **Electron**
Electrostatic Powder Coating

Company Area

Head office is located in Istanbul with 500 m² area and factory is in Izmir with 10,000 m² total area, 8,000 m² indoor space.



Employment Profile

DEPARTMENTS

- R&D
- Engineering & Project
- Planning & Production
- Automation & Electric / Electronic
- Painting device
- Quality Assurance
- Installation / Aftersales & Maintenance
- Purchasing
- Accounting and Finance
- Sales

Our team includes

175

People in total



Company Certificates

ISO 9001:2008
Quality
Management

UKR-SEPRO
Ukrainian
Standard

TSEK
Turkish Standard



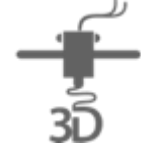
GOST-R
Russian Standard

CE
European
Conformity

ATEX
European
Conformity

Production Facilities

3D Printer



Roll-Forming Machines



Laser Cutting Machine



Press Brake Machine



Shear Machine



Lathe Machines



Milling Machines



Welding Machines



Router Machine

(plastic cutting and etc.)

Our Markets

CIS Countries

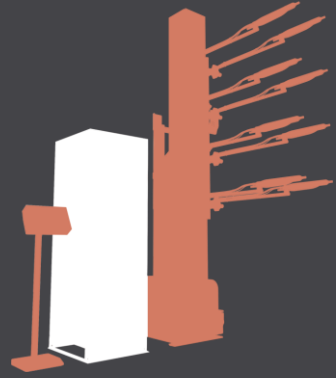
Middle East Countries

North and Middle Africa

Europe (West & East)



Products



**Powder Coating
Equipments**



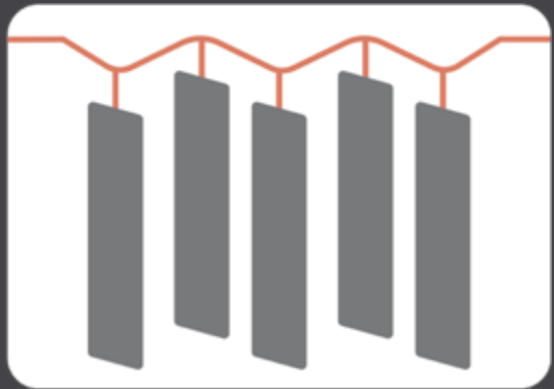
**Powder
Management Center**



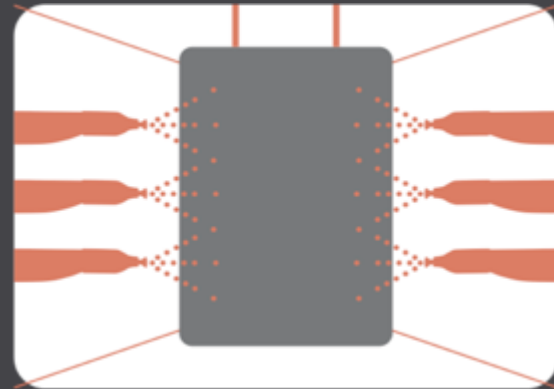
Pretreatment Systems



Drying & Curing Ovens



Conveyor Systems



Application Systems



Control Systems



Special Design



PRETREATMENT SYSTEMS

Tunnel Pretreatment

Chamber Pretreatment

Dipping Pretreatment

We produce pretreatment systems;

- Nano Technology Lines (Oxsilan, Bonderite etc.)
- Degreasing and Etching Lines
- Iron Phosphating & Zinc Phosphating Lines
- Chromating & Chrome Free Lines
- Spraying & Dipping Pretreatment Lines
- Savings
- Minimum Chemical and Water Consumption





DRYING & CURING OVENS

Tunnel Ovens

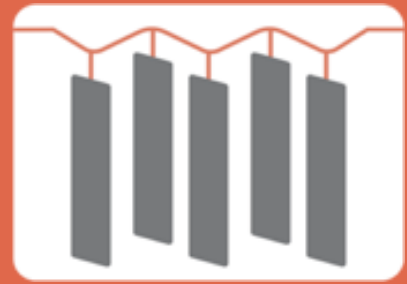
Box Ovens

High Temperature Ovens

We produce drying & curing ovens with;

- Conveyorised or box type designs
- Tunnel, U-Turn or special designs
- Maximum energy save & high productivity
- Correct insulation & minimum heat leakage
- Homogeneous air distribution
- Precise engineering & smart solutions
- Modern safety protections & standards





CONVEYOR SYSTEMS

Cardan Type

Power & Free

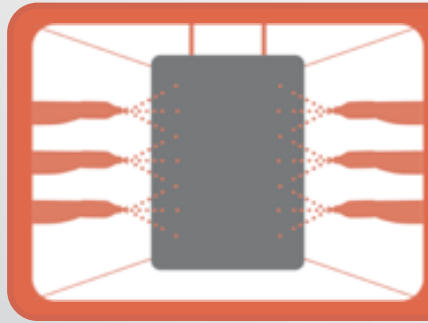
Webb Type



We produce conveyor systems including;

- Monorail , Power & Free or Axial Conveyor Lines
- Automatic or Manual Lubrication
- Optimum solutions as per customers requirements
- High quality and durable bearings
- Modern safety and quality standards





APPLICATION SYSTEMS

Powder Coating

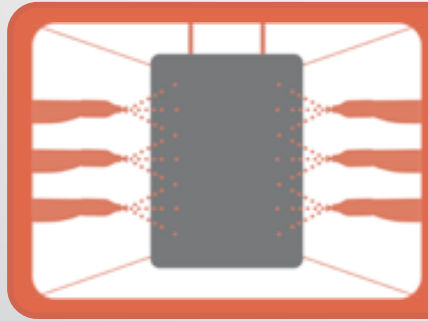
Liquid Coating

PTFE (Non-stick)

We produce powder coating booths with;

- Cyclone or Filter Type Recovery Systems
- Plastic or Metal Made Bodies
- Modern Quick Color Change and Classic Designs
- High Powder Recovery Percentage
- Maximum Energy Savings
- Soundproof Fans in CE Standards





APPLICATION SYSTEMS

Powder Coating

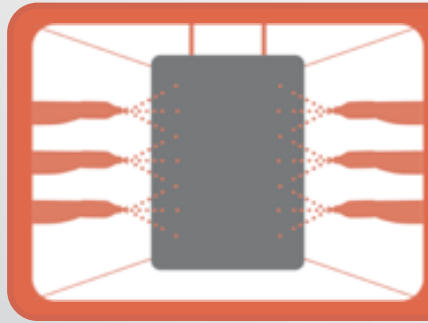
Liquid Coating

PTFE (Non-stick)

We produce liquid coating systems with;

- Water Draft or Dry-filter Type Filtration Systems
- Pressurised Room or Open Type Designs
- Conveyorised or Manual Application
- Stainless Steel or Galvanized Steel Material
- Heating or Cooling Options
- Suitable Designs from Small Parts to Big Volume Items
- High Percentage Paint Stopping and Separation





APPLICATION SYSTEMS

Powder Coating

Liquid Coating

PTFE (Non-stick)

We produce PTFE application systems with;

- Water Draft or Dry Type Spray Booths
- Preheating and High Temperature Curing Ovens
- Pretreatment & Washing Systems
- Smart Application Systems
- Maximum Energy Savings & Optimum Productivity
- Conveyorised or Manual Application





CONTROL SYSTEMS



- ✓ Easy and Reliable Operation
- ✓ Retrievable Data and History
- ✓ Energy Saving Build-in Systems
- ✓ Safe Back-up
- ✓ Interface For Online Service





SPECIAL DESIGN

Compact Type Powder Coating Line for Aluminium Profiles

Aging Oven for Aluminium Profiles

Wood Effect Line for Aluminium Profiles

Special Purpose Curing & Drying Ovens



MANUAL APPLICATIONS



BAR TRANSFER SYSTEMS



CONVEYORISED LINE



E-FEED Series



E-FEED PM120

Powder Management Center

PM120 Series equipment is suitable for semi-automatic applications. Fast cleaning. The lean design lets you utilise the production floor space. Smooth and effective powder distribution. Brilliant Coating Performance. Available for 20 powder coating guns.



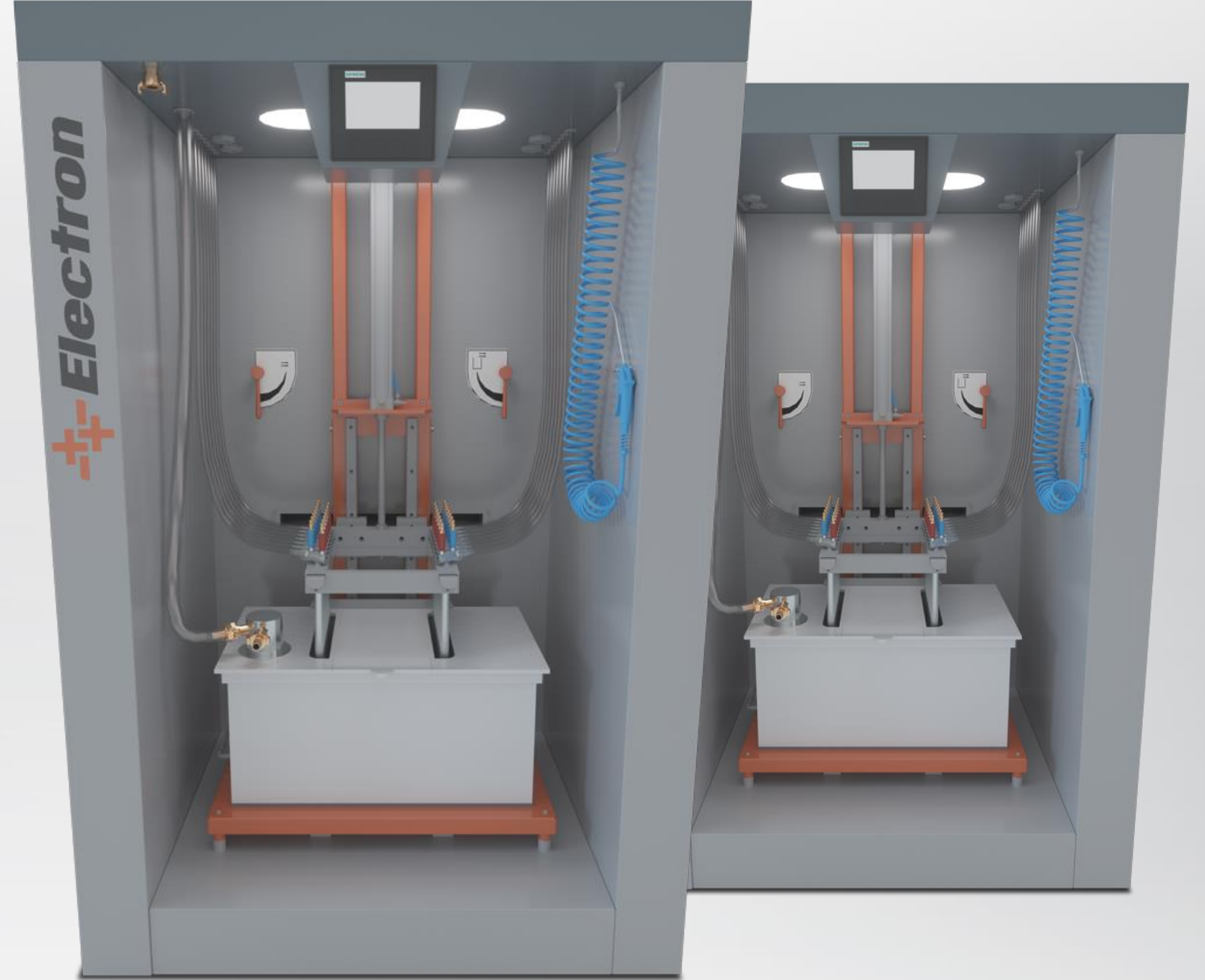
E-FEED Series



E-FEED PM220

Powder Management Center

PM220 Series equipment is suitable for automatic applications. Faster and thorough 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. Best solution for continuous production. Available for up to 20 powder coating guns.



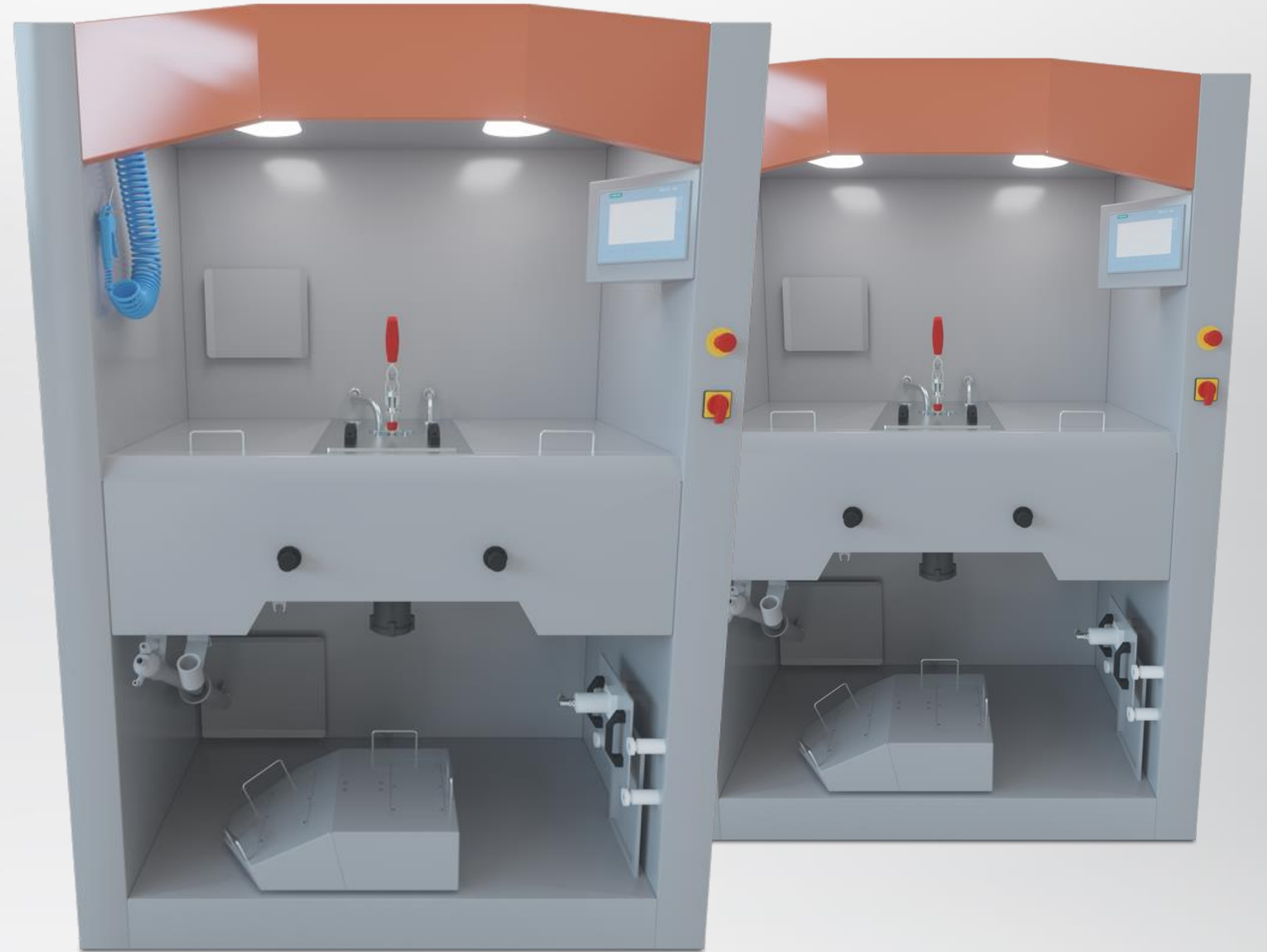
E-FEED Series



E-FEED PM320 E

Powder Management Center

PM320E Series equipment is Electron's most advanced powder management center. Fastest and thorough 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 production. Available for 24 powder coating guns.



E-FEED Series



E-FEED HD

Powder Management Center

E-FEED 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”. E-FEED HD holds the number spot for being the highest transfer rate among competitors with 7, 9 kg/min. transfer capacity. Through this high transfer capacity, total needed working time is reduced and lifetime of replacement parts is maximized. 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.

Some functions of the unit;

- Transfer Pressure Adjustment
- Vacuum Pressure Adjustment
- 7,9 kg/min. powder transfer capacity
- Fast change of replacement parts
- Timer for replacement parts lifetime
- Control of output current and process with "Check Manometer"
- Control option by its own control panel or adaptable to any other industrial automation system



- 2 levels of pumping frequency selection
- Powder level sensor adaptable
- Dual transfer capability in both directions (top/down, down/top)
- Fluidizing output
- ATEX II 3D, IP54 Protection Class



E-ROBOT / Reciprocators & PLC Systems

Automatic Series

- Get a perfect finish with consistent uniform film thickness
- Speed-up production
- Perfectly synchronized with reciprocators
- Centralized powder feed hopper with powder pumps

Reciprocators

- Smooth, swift and precise movement for speedy and uniform coating
- Reduced powder consumption
- Quick operation change with pre-programmable option settings for automatic selections of stroke and speed
- User friendly touch screen panel to control speed and stroke length
- Wide memory with 50 receipts. Last working time and total working time can be saved
- PLC controlled axis and automations



E-COAT Series



E-COAT Master

Automatic & Manual Powder Coating Equipment

The E-COAT 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 available 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 Master H (Hopper)

E-COAT Master M (Multicolor)

E-COAT Master B (Bare Type)

OPTIONAL ADD-ONS

Fast-Purge Module

Fast-Corona Module



E-COAT Series



E-COAT Master P

Automatic & Manual Powder Coating Equipment

The Electron E-COAT 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 AP pump allows the user to achieve the best possible finish with ultimate control.

P Series (Master Pump Series)

E-COAT Master P-B (Bare Kit)

E-COAT Master P-A (Automatic)

E-COAT Master P-H (Hopper)

E-COAT Master P-M (Multicolor)

Optional (Double Pump)

E-COAT Master P2-B (Bare Kit)

E-COAT Master P2-A (Automatic)

E-COAT Master P2-H (Hopper)

E-COAT Master P2-M (Multicolor)

* It can be used dual pump instead of single pump.



E-COAT Series



E-COAT Pro V2

Automatic & Manual Powder Coating Equipment

E-COAT Pro V2 Series devices are very efficient and intelligent with the availability to set the current and voltage values and use the manometer and regulator in common. E-COAT 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 Pro V2 H (Hopper)

E-COAT Pro V2 M (Multicolor)

E-COAT Pro V2 B (Bare Type)

OPTIONAL ADD-ONS

Fast-Purge Module

Fast-Corona Module








E-GUN / Automatic and Manual Guns

Changes the signals sent from the E-Coat 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
- With the help of its body coated with anti-static additive, coats easily and effectively
- Maximum user-comfort even in long term operations with its 505 gr weight and new generation ergonomic structure in manual types
- Safety working conditions with the special PUR sheathed cable
- Quick hose/colour change with its quick adapter of powder coating hose
- Easy cleaning with its special design electrode and nozzle types
- ATEX II 2 D, IP64 type protection class
- Ability to apply various types of powders on different products with E-GUN Corona ion-collector and different nozzle options with angle and various patterns



Assembly, after sales services and spare parts

-  Installation
-  Test & Commissioning
-  Maintenance Services
-  Spare Parts
-  Quick and Simple Feedback



Why you should choose us as a business partner?

Electron is the best partner for you.



Because:

- ✓ Electron has manufacturing experience since 1998
- ✓ Electron has quality production facilities and high capacity production lines
- ✓ Electron has qualified, skilled, experienced and well-equipped engineers and workers,
- ✓ Electron is certified for high quality standards and production.
- ✓ Electron has the ability to achieve turnkey projects and powder coating equipment with its own production departments.
- ✓ Electron exports to about 50 countries around the world and has capacity to make service and supply with spare parts all its customers.



CENTER

PERPA Tic. Mer. B-Blok Kat:2 No:65 34385
Okmeydanı – İSTANBUL

Tel: +90 (212) 222 23 45
Fax: +90 (212) 210 67 61

FACTORY

İTOB Org. San. Bölgesi 10010 Sk. No:10 35470
Menderes – İZMİR

Tel: +90 (232) 799 02 32
Fax: +90 (232) 799 02 42