

## Series 5000

**DISK ELECTROSTATIC  
AUTO COATING SYSTEM**

**MAX 60000RPM**  
(no loading spray disk)

**HYBRID**

2K/3K WATERBASED

2K/3K SOLVENT



AUTOMATION



INTERNET OF  
THINGS



SMART  
PRODUCTION



GREEN ENERGY



SMART  
FACTORY



CYBER SECURITY



ARTIFICIAL  
INTELLIGENCE

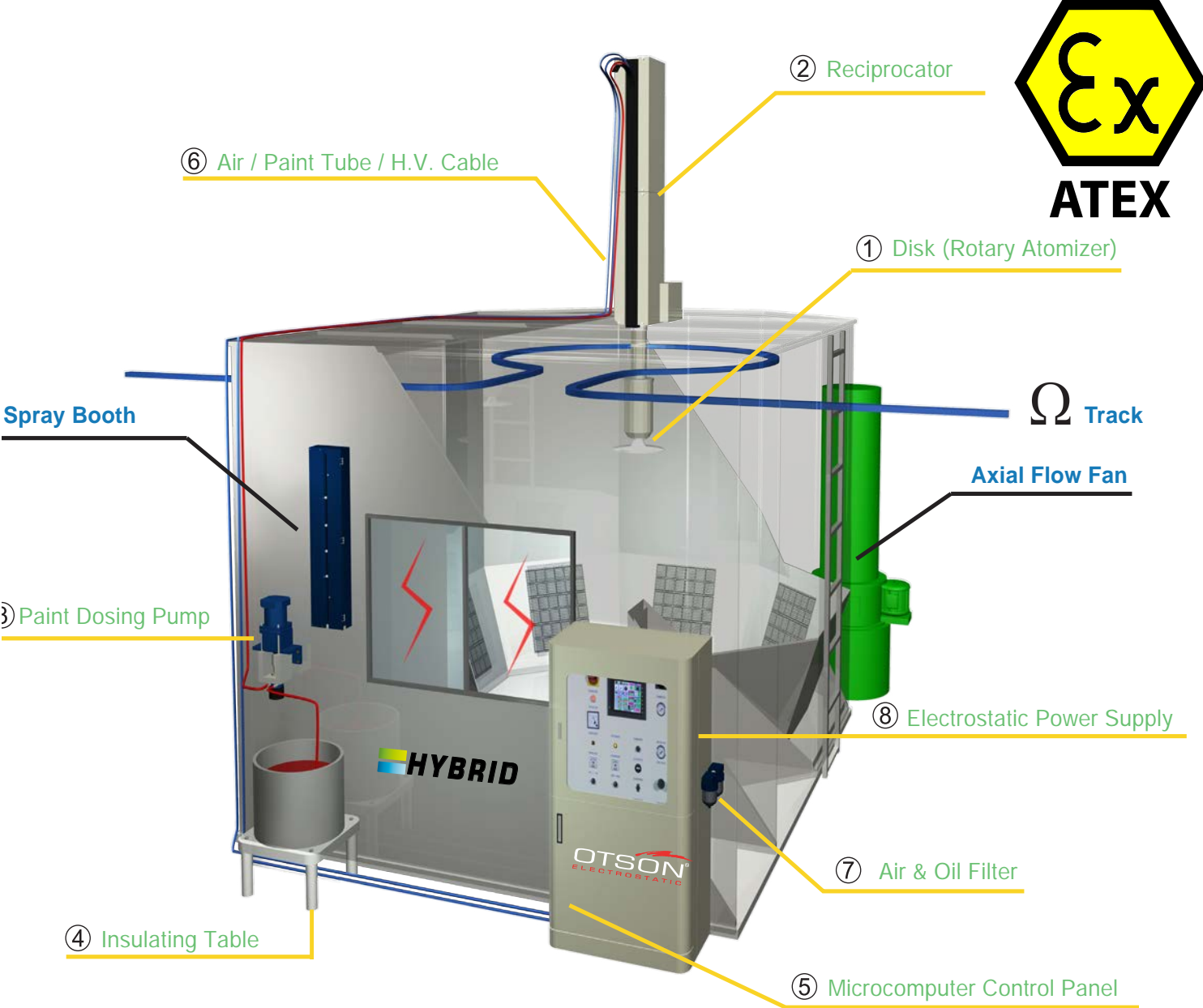


MACHINE  
LEARNING

# Overview

OTSON auto electrostatic Disk (Disc) spray system is a cutting-edge solution for applying coatings and paints in potentially explosive environments. As a manufacturer of OTSON auto electrostatic Disk (Disc) spray system, it is important to highlight the unique benefits and advantages of your product to potential customers. The system is designed to be safe and compliant, and it is certified by ATEX, which is the standard for equipment and protective systems intended for use in potentially explosive atmospheres.

One of the key benefits of OTSON auto electrostatic Disk (Disc) spray system is its ability to cover a larger area in a shorter amount of time than traditional electrostatic spray guns, which can result in increased production rates for your customers. Additionally, the system is designed with easy maintenance in mind, making it a reliable choice for busy industrial environments.



**Dual Coating for  
Solvent and Waterborne Paint**

2K/3K WATERBASED

2K/3K SOLVENT



Our system can handle a wide range of coatings and paints, including 2K and water-based paints, which can open up new possibilities for your customers. Furthermore, the OTSON auto electrostatic Disk (Disc) spray system is designed to reduce CO2 emissions and overspray, which can help to save cost and be more environmentally friendly.

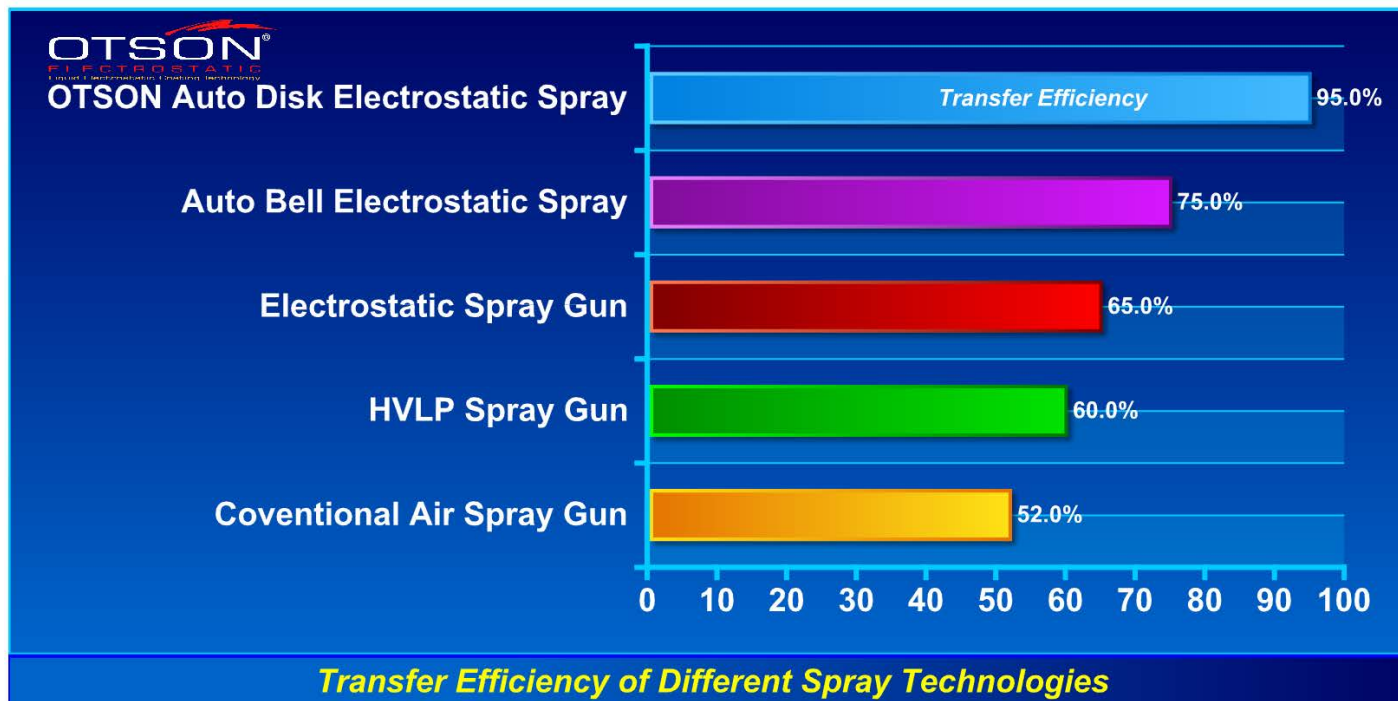
The system includes the Twin Turbine Atomizer, which is designed to provide uniform coating thickness and fine atomization, which can reduce overspray and paint waste. The quick-disconnect features of the atomizer and the disks allow for easy maintenance and reduced downtime. The system also includes a fully automated control panel that provides high production rates and reduces labor cost. The control panel gives operators total control flexibility and allows the operator to change process parameters, not only between batches, but also within the same part. The simplified user interface control panel is capable of recording ten different coating parameters which is beneficial to apply in various objects easily and efficiently.



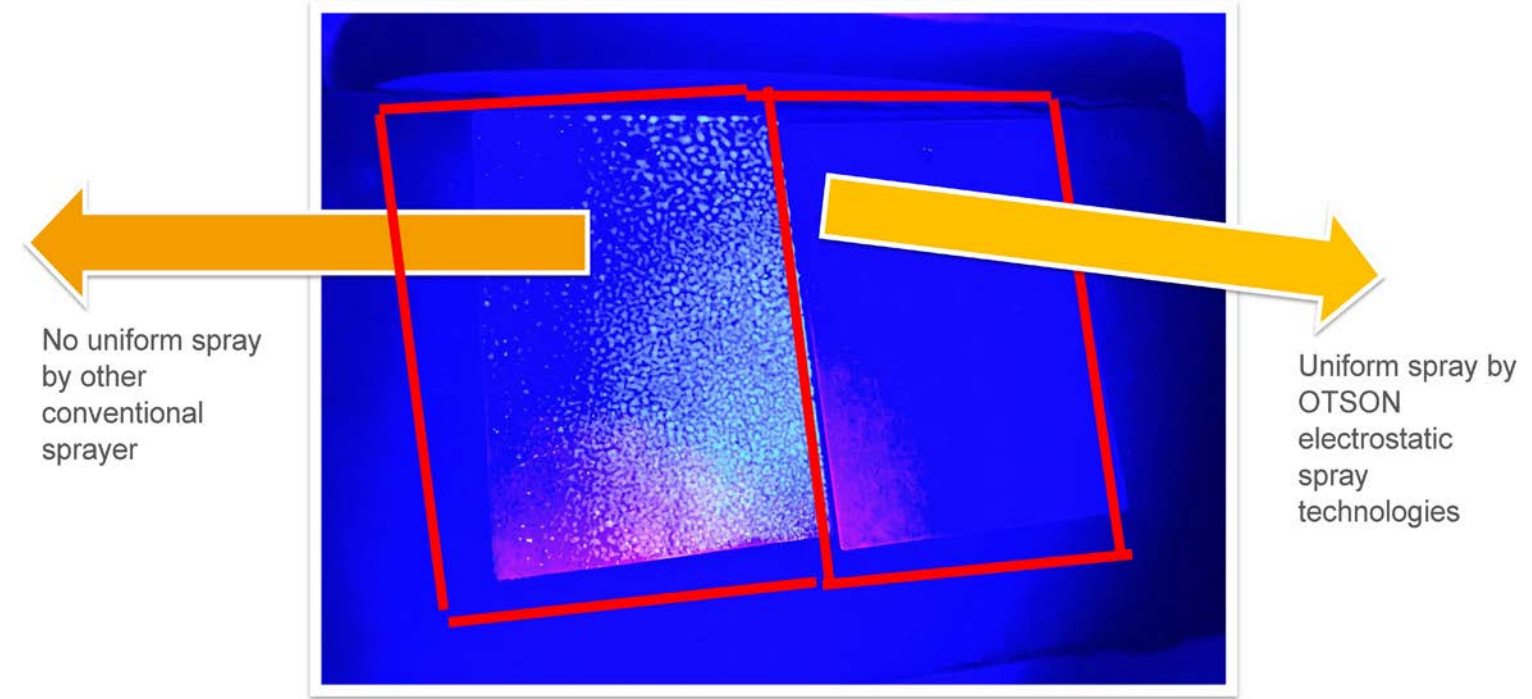


## Features

- **Dual Coating-** Solvent and Waterborne Paint
- **Improving Coating Quality-** Uniform Film Thickness
- **Good Edge Cover-** High quality atomisation and coating finish
- **Reducing Coatings Cost-** High Transfer Efficiency
- **Good Wraparound-** Very little over spray and no bounce back
- **Low VOC** (volatile organic compounds ) **Emissions** - Reducing Air Pollutions
- **Reducing Water Pollutions**
- **High Production Rates.**
- **Long Life Operation**
- **Low Failure Rate**
- **Easy Maintenance**



The OTSON Disk (Disc) electrostatic spray system can significantly improve the spraying quality and production while reducing the paint consumption, the waste discharge and the maintenance cost. Because of the highly atomized live paint grains, the film is uniformly and smoothly coated on the workplace which has reduced the orange tissue effect and improved the coating layer quality.



### Uniform Coating Quality





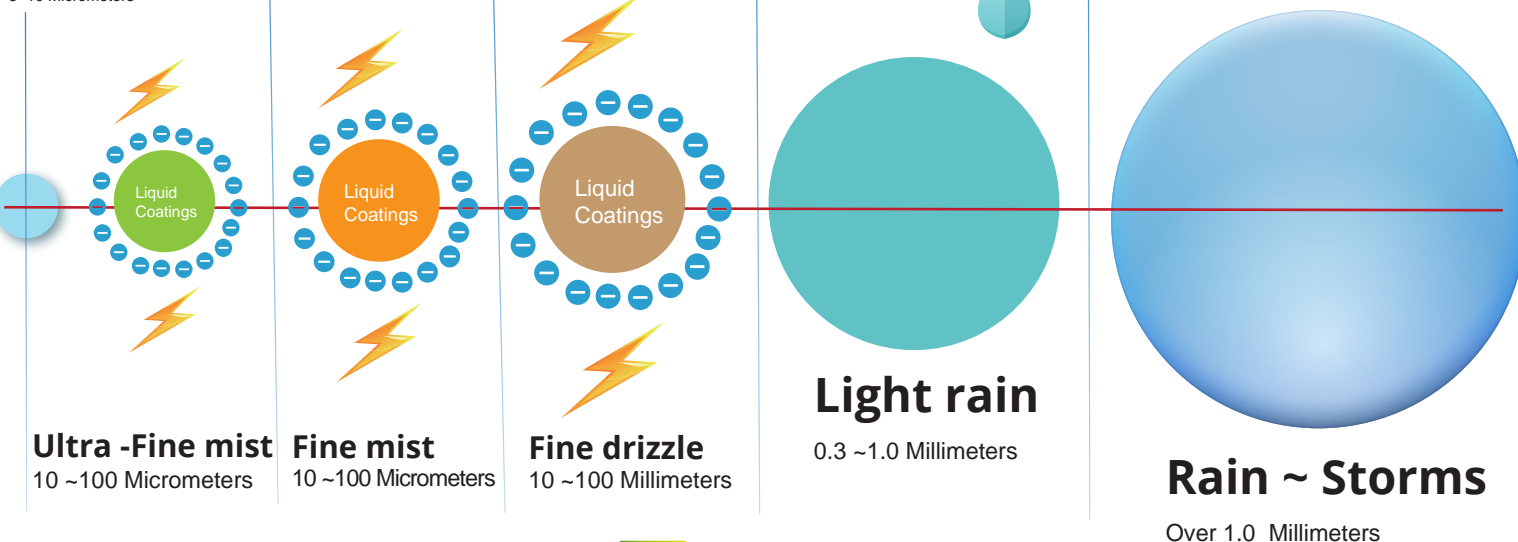


## Different coatings thicknesses by OTSON Electrostatic Spray System

## Classification of Electrostatic Spray Droplet / Particle Size

5 Micrometers 10 Micrometers 100 Micrometers 300 Micrometers 1000 Micrometers

**Aerosol**  
5~10 Micrometers



5.0~ 300.0 Micrometers **HYBRID**

Waterbase Coatings

Solvent Coatings

Auto DISK (Disc) Electrostatic Spray

**Series 5000**

The metal industry typically requires a multi-layer liquid coating system to provide protection and enhance the appearance of metal surfaces. The thickness of each layer depends on the specific requirements of the metal surface, but a typical sequence of layers for metal industry would include the following:



### Clear Coating :

Clear Coat: A clear coat layer is applied to the surface to provide additional protection and durability. The thickness of the clear coat is around 20-30 microns. The clear coat is cured in an oven at a temperature of around 150-180°C for 20-30 minutes.

### Base Coating:

Base Coat: A thicker layer of base coat is applied to the metal surface to provide the desired color and finish. The thickness of the base coat is around 30-50 microns. The base coat is cured in an oven at a temperature of around 150-180°C for 20-30 minutes..

### Primer Coating:

Primer Coating: A thin layer of primer coating is applied to the metal surface to improve adhesion and provide corrosion resistance. The typical thickness of primer coating is around 10-20 microns. The primer coating is cured in an oven at a temperature of around 120-150°C for 20-30 minutes.

### CED Coating:

CED (Cathodic Electrodeposition): This is an electrocoating process that uses an electrical current to deposit a uniform and consistent layer of paint onto the metal surface. The thickness of the CED coating is around 50-80 microns. The CED coating is cured in an oven at a temperature of around 180-200°C for 30-60 minutes.

Metal Material

- Surface Preparation:** The metal surface is cleaned and treated to remove any dirt, oil, or other contaminants that may affect the adhesion of the coating. The surface may be sandblasted, degreased, or chemically cleaned
- CED (Cathodic Electrodeposition):** This is an electrocoating process that uses an electrical current to deposit a uniform and consistent layer of paint onto the metal surface. The thickness of the CED coating is around 50-80 microns. Curing time and temperature: The CED coating is typically cured in an oven at a temperature of around 80-120°C for 15-30 minutes.
- Primer Coating:** A thin layer of primer coating is applied to the metal surface to improve adhesion and provide corrosion resistance. The typical thickness of primer coating is around 10-20 microns. Curing time and temperature: The primer coating is typically cured in an oven at a temperature of around 80-120°C for 15-30 minutes.
- Base Coat:** A thicker layer of base coat is applied to the metal surface to provide the desired color and finish. The thickness of the base coat is around 30-50 microns. Curing time and temperature: The base coat is typically cured in an oven at a temperature of around 80-120°C for 15-30 minutes.
- Clear Coat:** A clear coat layer is applied to the surface to provide additional protection and durability. The thickness of the clear coat is around 20-30 microns. Curing time and temperature: The clear coat is typically cured in an oven at a temperature of around 80-120°C for 15-30 minutes.
- Final Inspection:** The coated metal parts are inspected to ensure they meet quality standards and customer specifications.

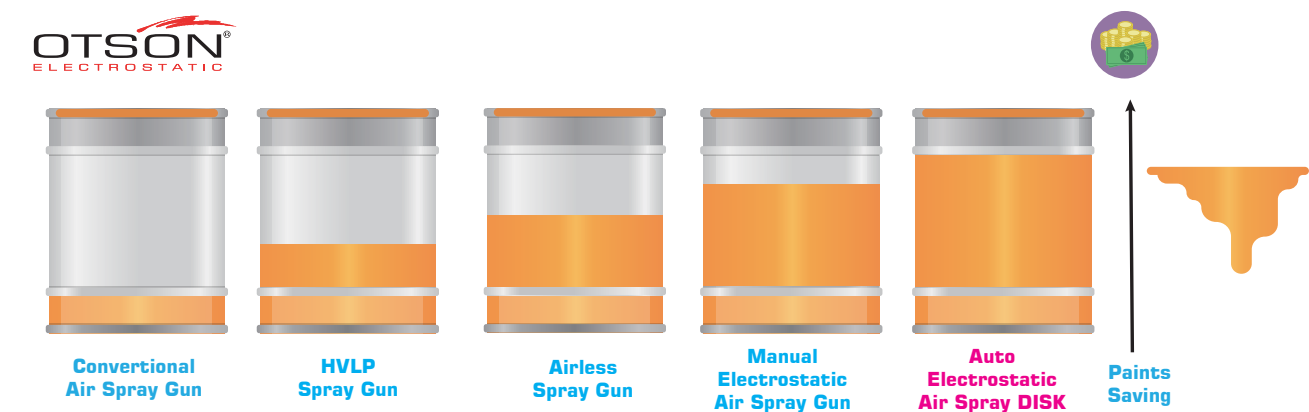
These layers are applied using liquid electrostatic spray equipment, which is capable of atomizing the coating materials into fine particles for precise and efficient application. The thickness of each layer can be adjusted based on the specific requirements of the metal surface and the desired end result.



Benefits of Electrostatic Spray Technology

- Improve Finishing Quality
- Reduce Refinishing Work
- Time Savings
- Reduce Paint Wastage
- Material Savings

Reduce Paints Costs

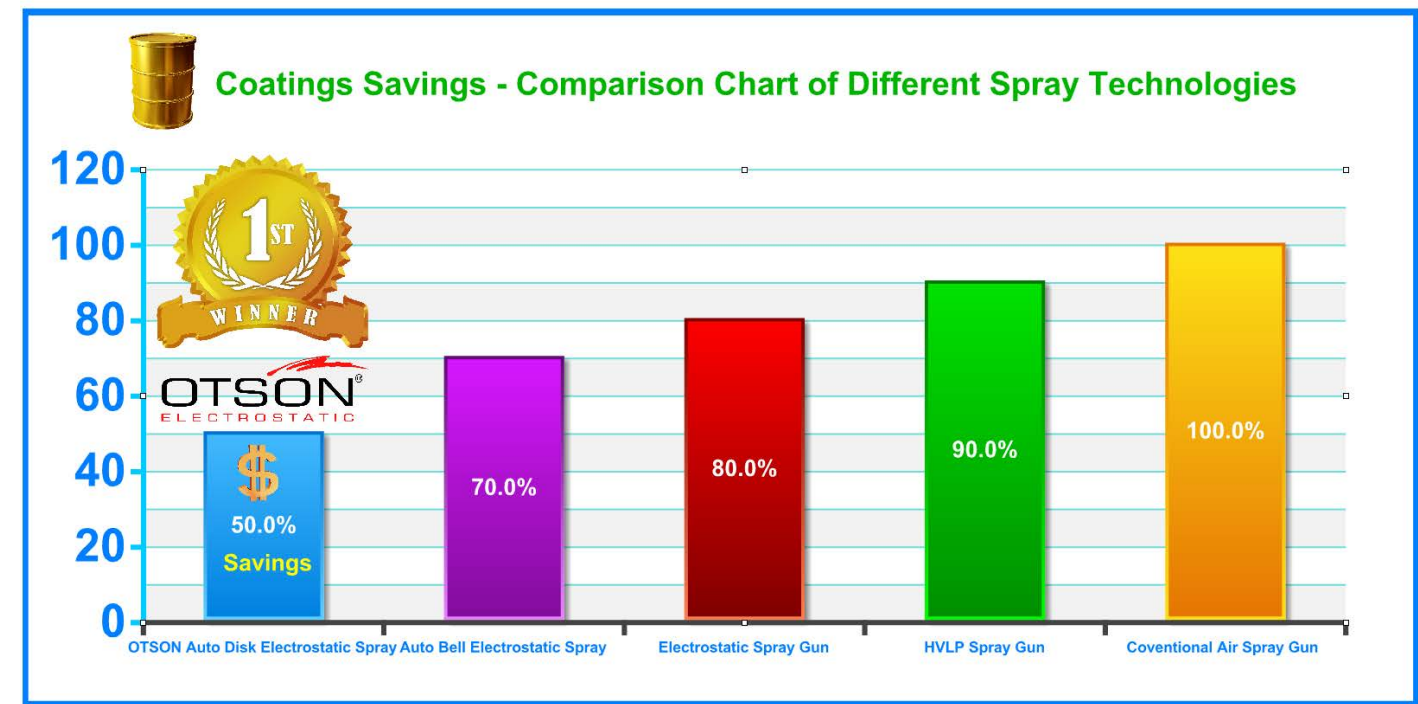


Return-on-Investment (ROI)

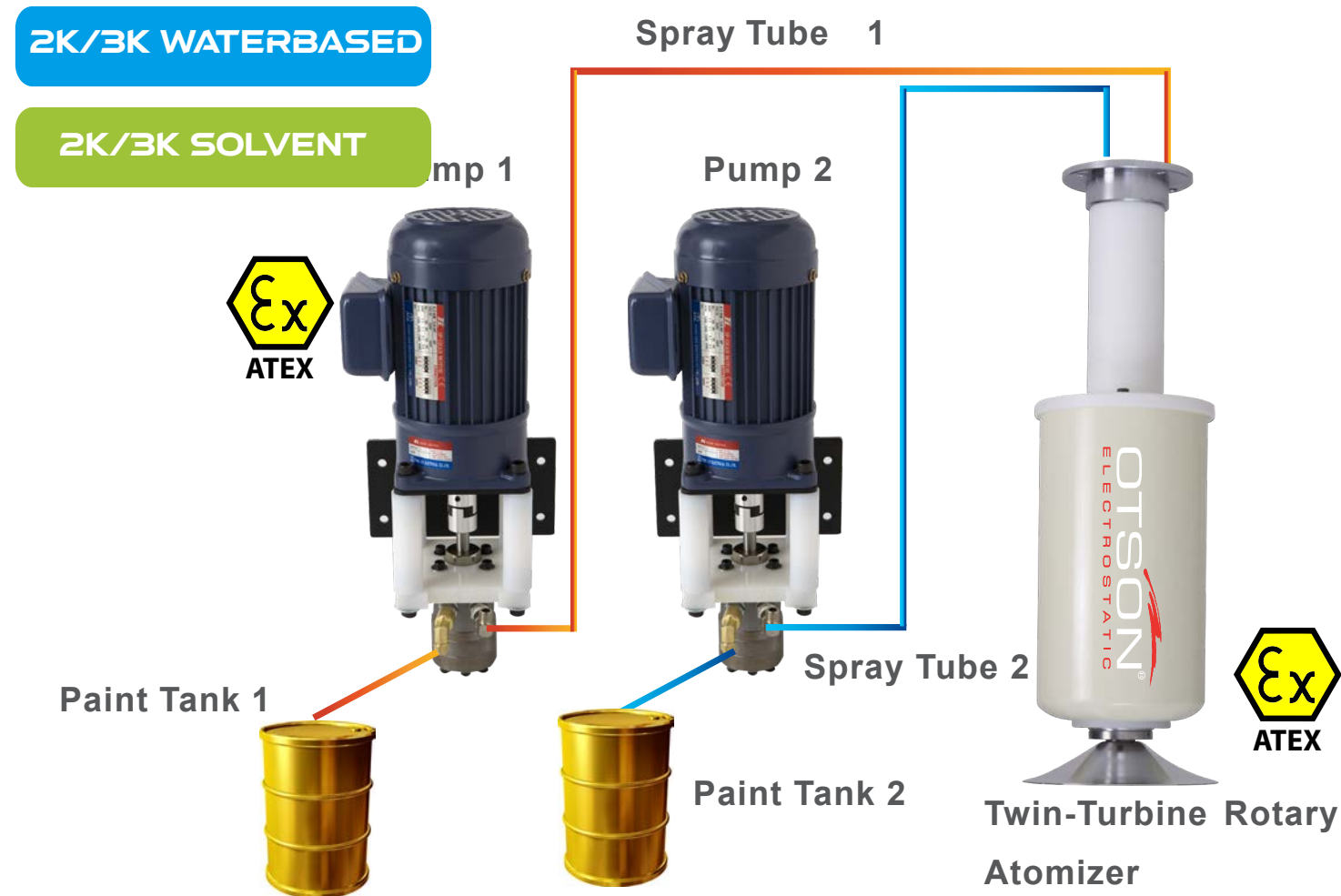
By replacing Conventional Air Spray gun with Auto Electrostatic Spray Disk (Disc) System

	Typical	Calculate Your Own Application
Paint price per litre	USD 10	
	X	X
Litre Used per Day	100 litres	
	X	X
Business Days per Year	220 days	
Electrostatic Transfer Efficiency	95%	
Annual Savings	USD 209,000.00	

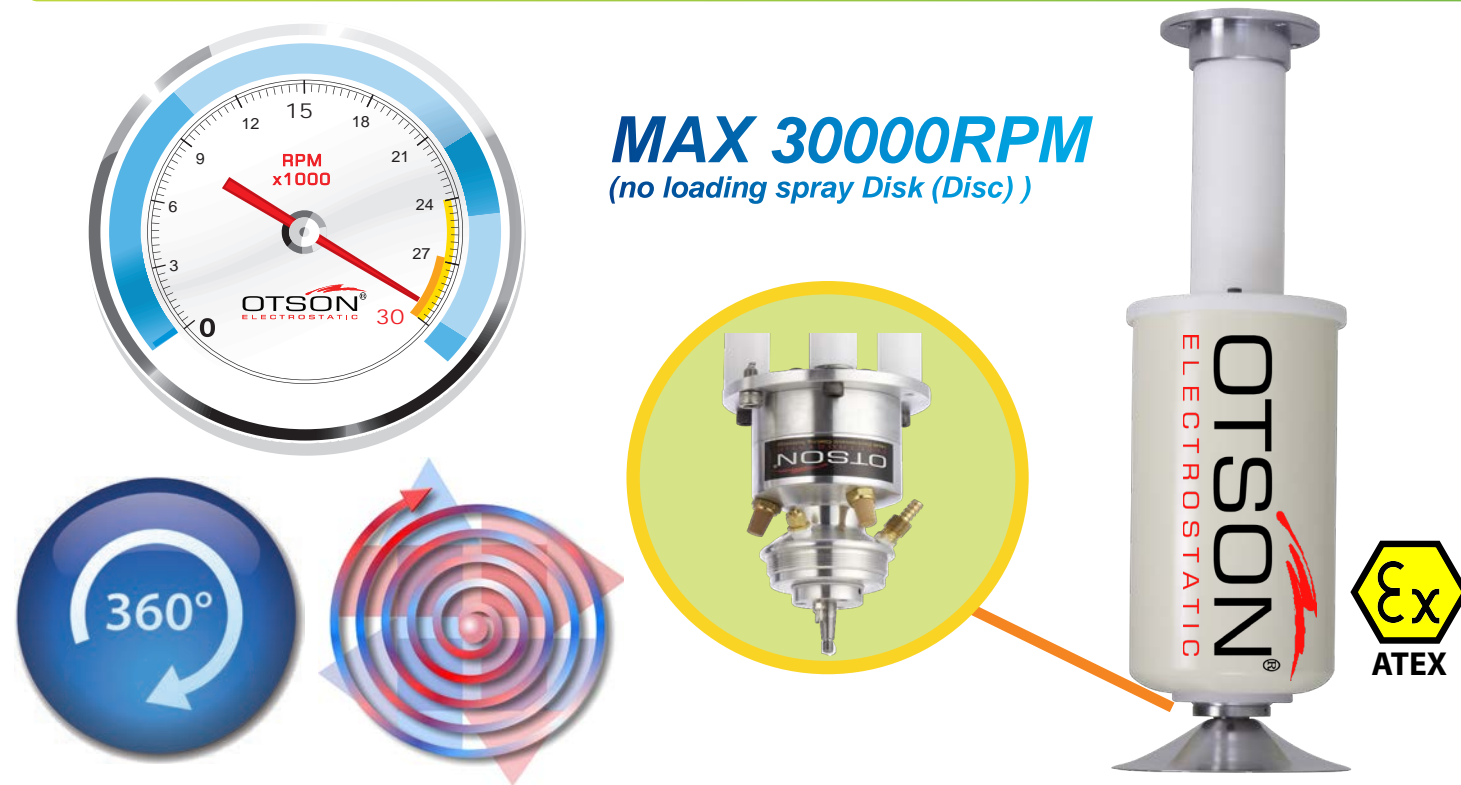
Coating Savings



Fast Colour Change Solution ( 1 sec )



## Turbo Rotary Atomizer



**MAX 30000RPM**  
(no loading spray Disk (Disc) )

### *The Spray Direction of OTSON Turbo Rotary Atomizer*

At OTSON Technologies, we are proud to offer the advanced Turbo Rotary Atomizer for your coating needs. This innovative machine is designed to deliver a high-quality finish, with speeds that can reach up to 30,000 RPM, ensuring even high viscosity coatings are atomized into fine particles.

#### High-Quality Results:

With the Turbo Atomizer's fine atomization capabilities, you can expect a uniform coating thickness on all surfaces. This reduces over spray and minimizes paint waste, saving you time and money in the long run.

#### Ease of Use and Maintenance:

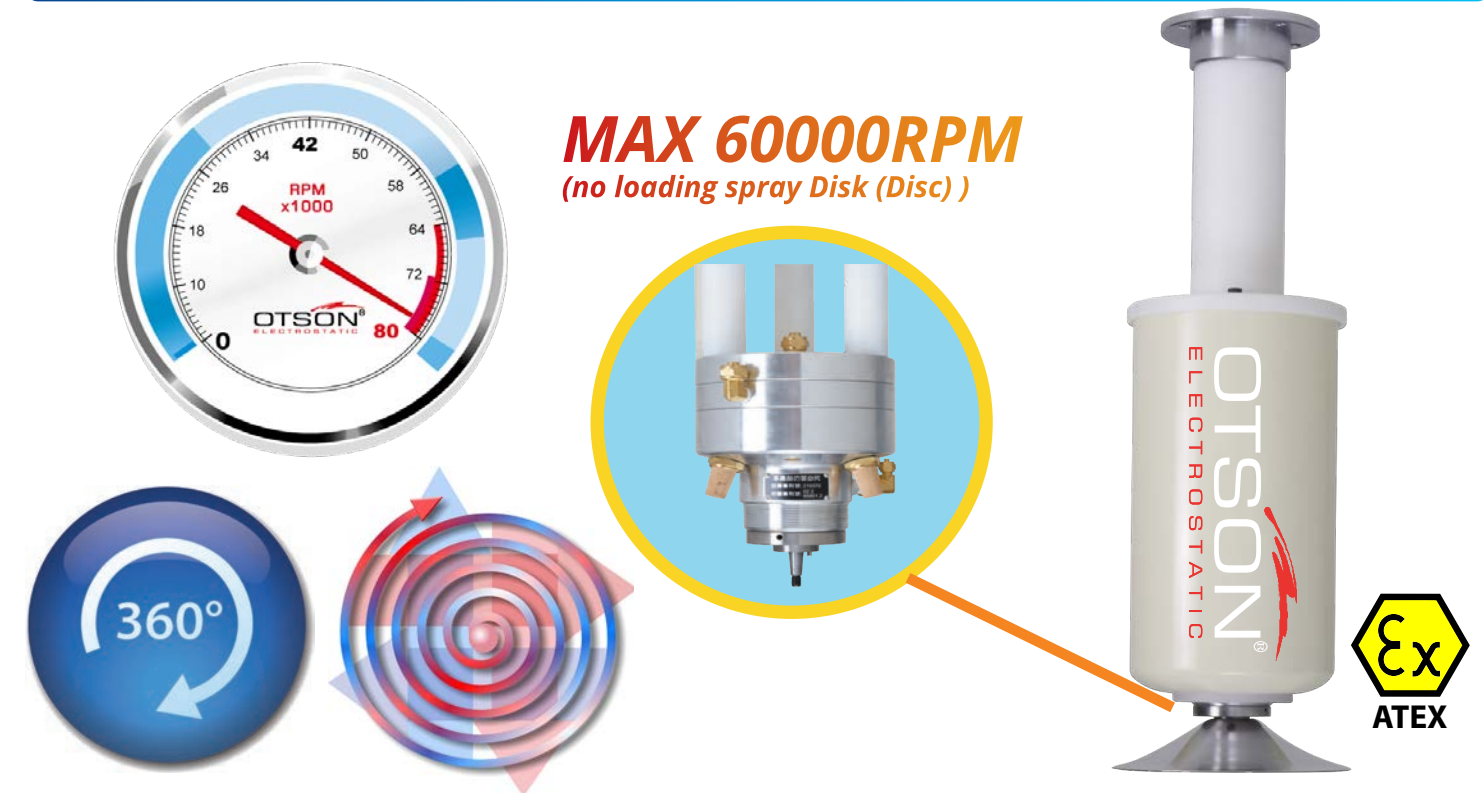
The quick-disconnect features of the turbo atomizer and disks allow for easy maintenance and reduced downtime. This means you can spend less time dealing with machine maintenance and more time producing high-quality results.

#### Automatic Production:

The OTSON Turbo Rotary Atomizer is fully automated, providing high production rates and reducing labor costs. This machine is designed to meet the demands of today's modern production environments, delivering efficient and reliable results every time.

In conclusion, the OTSON Turbo Rotary Atomizer is an innovative and advanced coating solution that offers high-quality results, ease of use, and low maintenance costs. Contact us today to find out how this machine can help improve your coating process.

## Twin-Turbine Rotary Atomizer



**MAX 60000RPM**  
(no loading spray Disk (Disc) )

### *The Spray Direction of OTSON Twin-Turbine Rotary Atomizer*

The OTSON Twin-Turbine Rotary Atomizer is a cutting-edge coating solution designed to deliver a high-quality finish every time. With speeds that can reach up to 60,000 RPM, this atomizer can handle even the thickest of coatings, producing fine particles for a flawless finish.

#### Uniform Coating:

Thanks to the fine atomization capabilities of the Twin-Turbine Rotary Atomizer, you can expect a uniform coating thickness on all surfaces. This minimizes over spray and reduces paint waste, helping you achieve optimal results with every use.

#### Ease of Maintenance:

With quick-disconnect features for both the twin turbine atomizer and disks, maintenance and downtime are reduced, ensuring you can get back to coating quickly and efficiently.

#### Automated Production:

The OTSON Twin-Turbine Rotary Atomizer is fully automated, providing high production rates and reducing labor costs. This machine is designed to meet the demands of modern production environments, delivering reliable and efficient results every time.

In conclusion, the OTSON Twin-Turbine Rotary Atomizer is a high-performance coating solution that offers superior atomization, ease of maintenance, and low labor costs. Contact us today to see how this machine can improve your coating process.



## Single DISK (Disc) Booth Layout

### Auto Single Disk (Disc) Electrostatic Spray System by OTSON Technologies:

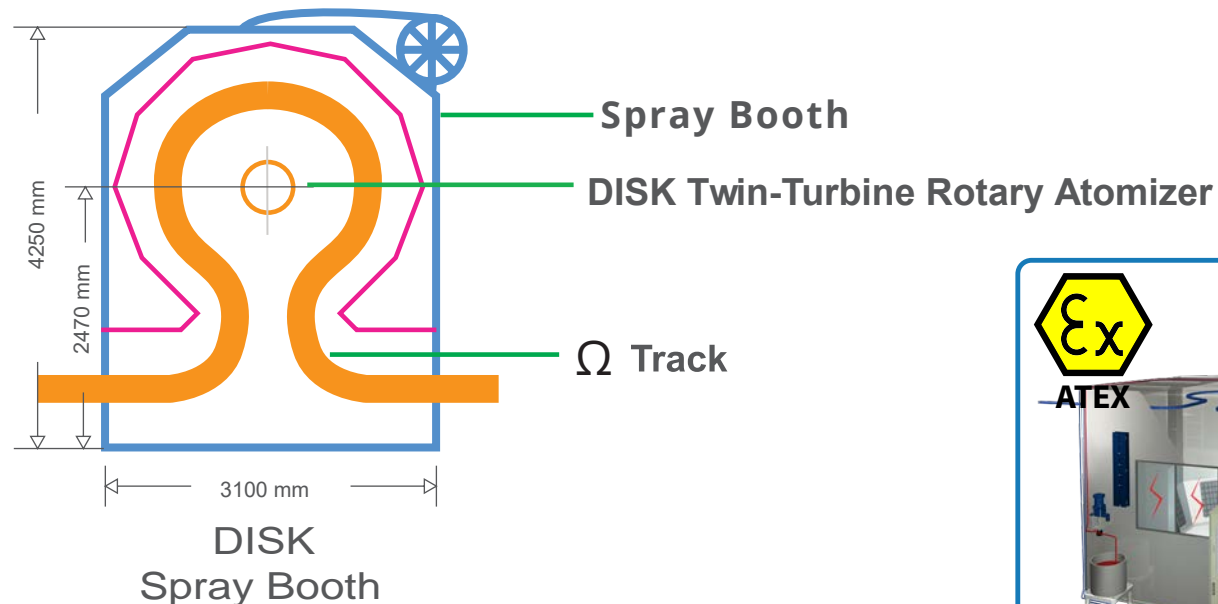
Our Auto Single Disk (Disc) Electrostatic Spray System uses a spinning Disk (Disc) to create a fine mist of the liquid coating material, which is then charged electrostatically for improved attraction to the surface being coated. With automated control, this system delivers consistent and precise results, making it an efficient solution for smaller and simpler objects.

#### Advantages:

- **Cost-effective:** Our Auto Single Disk (Disc) system is a budget-friendly option for your coating needs.
- **Good coating quality:** You can expect a well-coated surface with our Auto Single Disk (Disc) system.
- **Automated control:** The computerized control eliminates operator error for consistent results every time.



### ■ Single Type Disk (Disc) (MAX Conveyor Speed :5 meters/min )



## S-type DISK (Disc) Booth Layout

### Auto S-Type Electrostatic Spray System by OTSON Technologies:

Our Auto S-Type Electrostatic Spray System combines a spinning Disk (Disc) and an electrode to produce a fine mist of the liquid coating material, charged electrostatically for maximum attraction to the surface being coated. With greater precision and control, this system is ideal for larger or more complex objects.

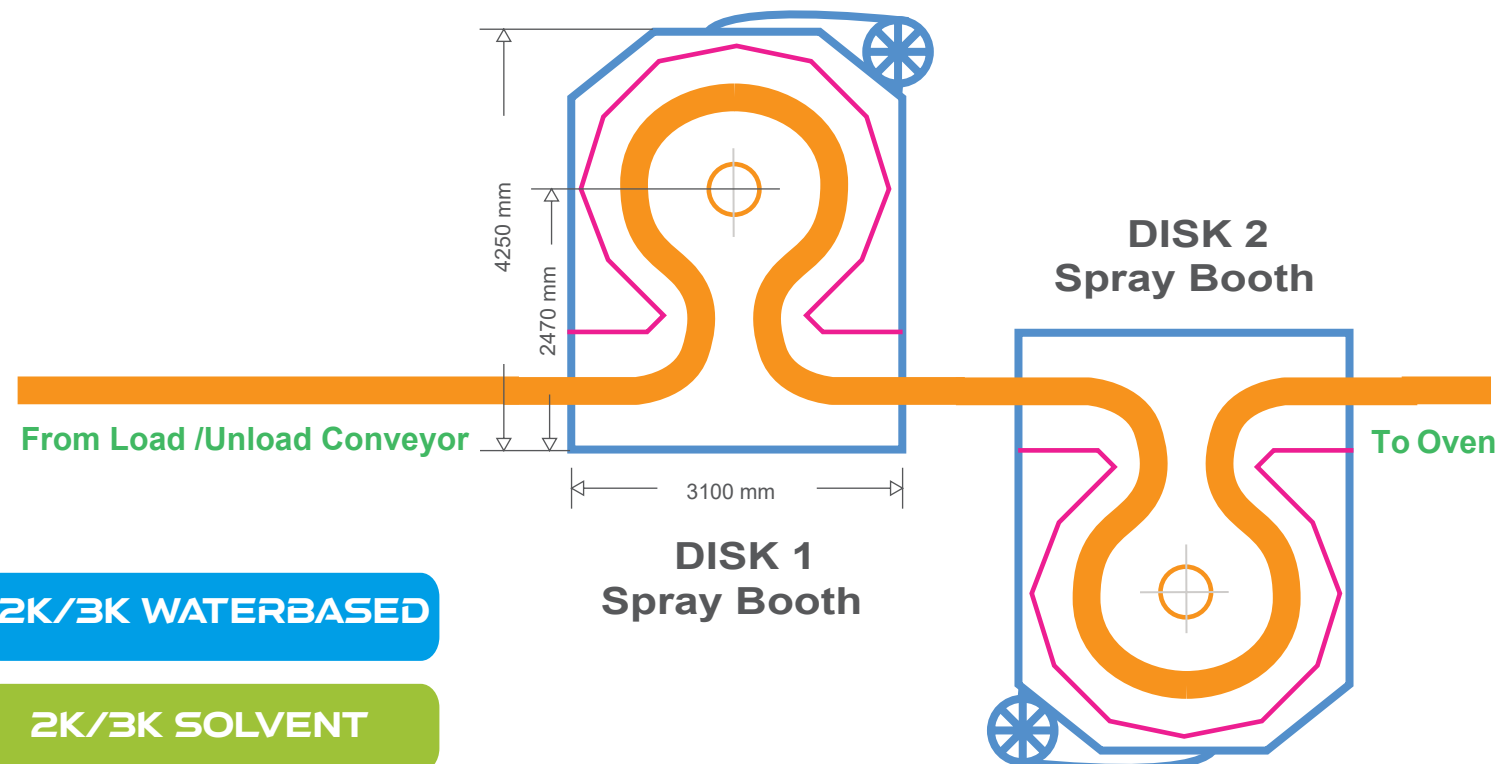
#### Advantages:

- **Precision and control:** The electrode enhances the precision and control of the coating process.
- **High transfer efficiency:** Our Auto S-Type system boasts a transfer efficiency of up to 90%, leading to improved coating uniformity and reduced material waste.
- **Automated control:** Just like our Auto Single Disk (Disc) system, our Auto S-Type system is automated for consistent and precise results.

### Choose the Right System for Your Needs:

Whether you need to coat smaller or simpler objects or larger and more complex objects, OTSON Technologies has you covered. Our Auto Single Disk (Disc) and Auto S-Type Electrostatic Spray Systems are both automated and controlled by a computer, offering reliable and efficient results. Let us help you choose the right system for your specific needs.

### ■ S-Type Disk (Disc) (MAX Conveyor Speed :10 meters /min )



## Big or Complex Objects Coating – Base and Finishing Electrostatic Spray Coating

Disk 1

Disk 2

**OTSON**  
Liquid Electrostatic  
**S-Type Disk Coating**

**2K Solvent**  
**2K Water Based**

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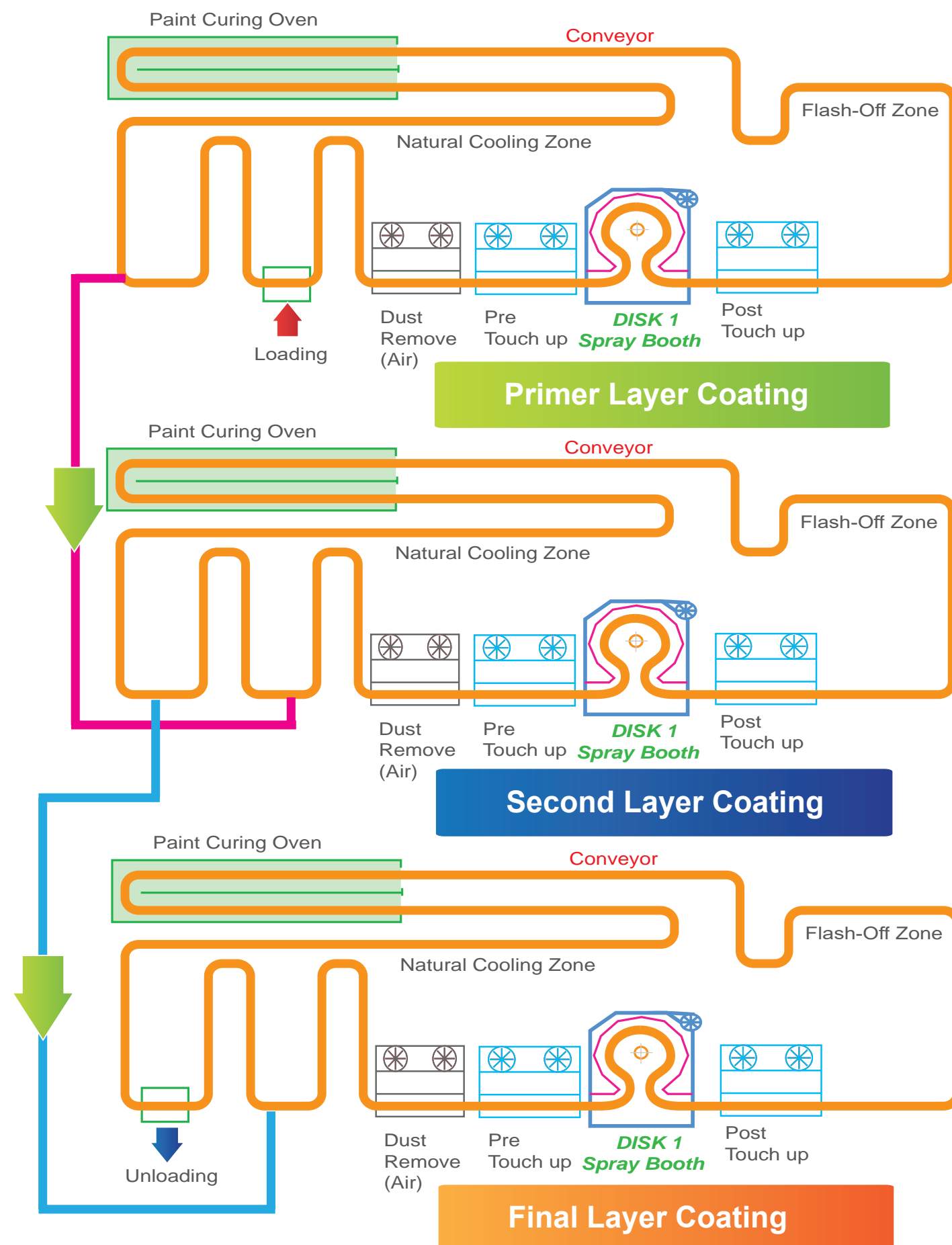
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A comparison of Single Disk (Disc) and S-Type liquid electrostatic spray systems in terms of the following aspects:

- **Atomization:** Single Disk (Disc) systems use a spinning Disk (Disc) to atomize the liquid coating material and create an electrostatic charge on the coating particles, while S-Type systems use a spinning Disk (Disc) in combination with an electrode to charge the atomized particles.
- **Precision and Control:** S-Type systems are considered more precise and controlled in terms of coating application, making them better suited for larger or complex-shaped objects.
- **Transfer Efficiency:** S-Type systems have a higher transfer efficiency, typically around 85-97%, compared to Single Disk (Disc) systems which have transfer efficiencies of around 80-90%. This can lead to improved coating uniformity and reduced material waste, resulting in increased production rates.
- **Cost:** Single Disk (Disc) systems are typically less expensive to purchase and maintain than S-Type systems. However, the cost savings from reduced material waste and increased production rates provided by S-Type systems may offset the initial cost.
- **Suitable Applications:** Single Disk (Disc) systems may be a cost-effective solution for certain liquid coating applications, and can provide good coating quality, but may not be as precise as S-Type systems, and may not be suitable for larger or complex-shaped objects. S-Type systems are suitable for larger or complex-shaped objects and will provide a higher precision and controlled coating application.

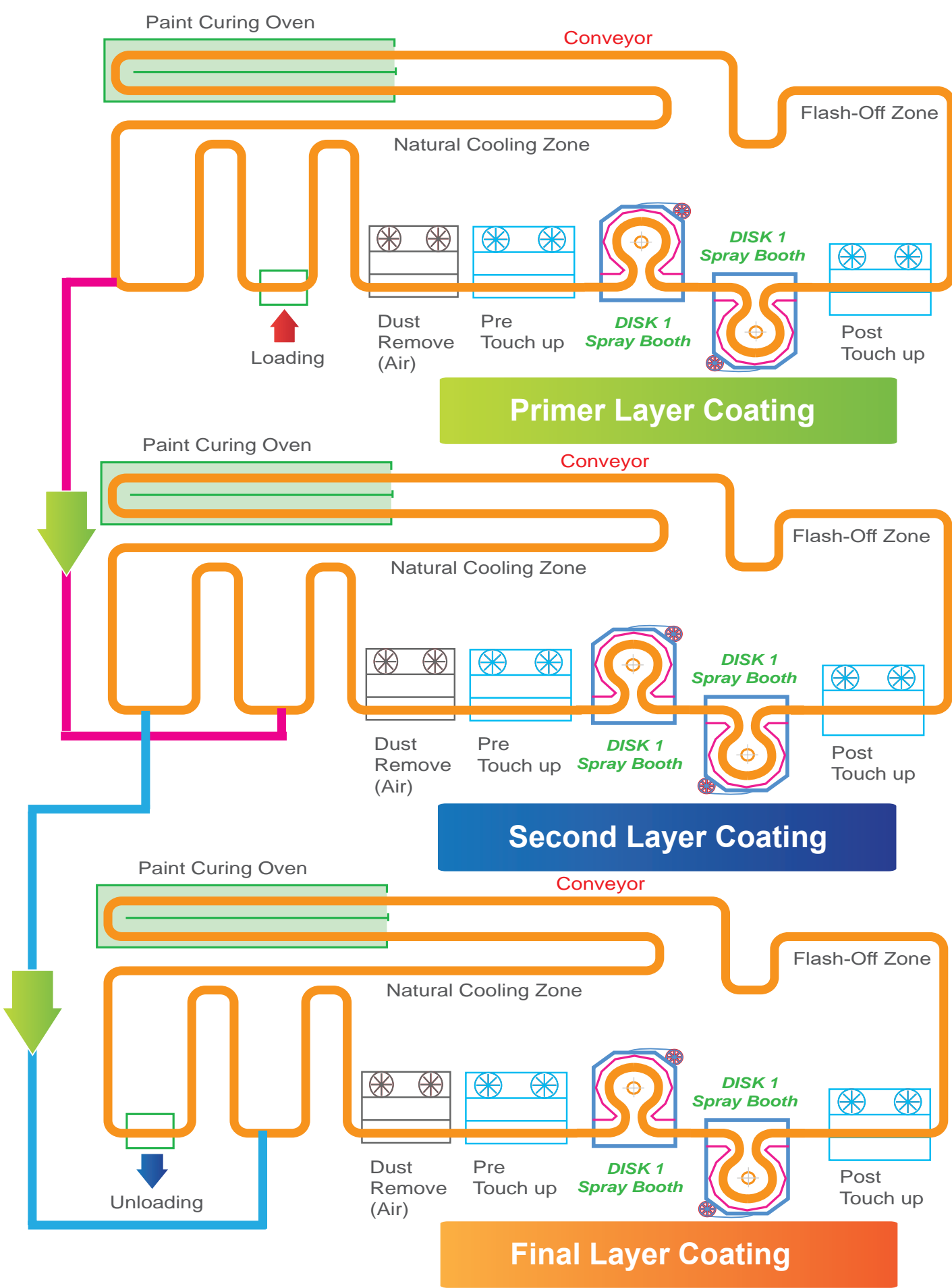
It's important to note that both Single Disk (Disc) and S-Type systems use electrostatic power to attract the liquid coating material to the surface being coated. The main difference is in the atomization process and the level of precision and control in the coating application, with S-Type systems being more precise and controlled.

## Single Type DISK (DISC) Layout





# S-Type DISK (DISC) Layout



# Application - Bicycle



Primer Coating

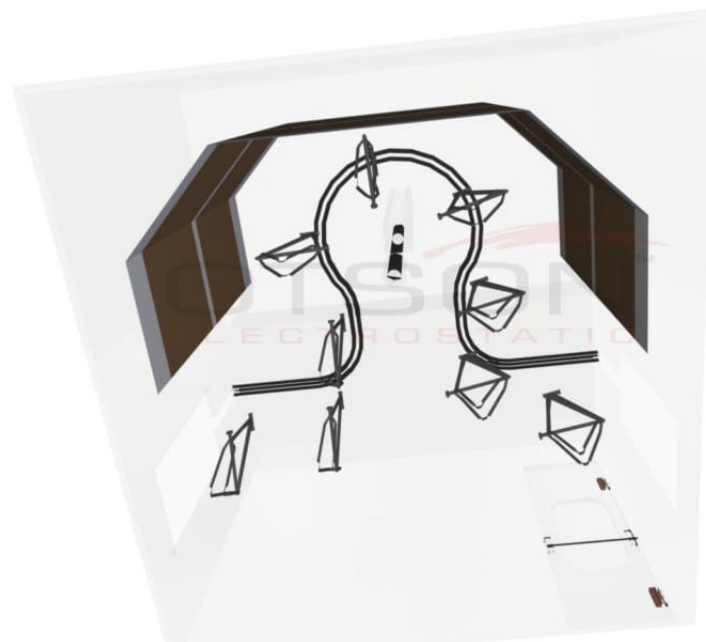


Final Coating

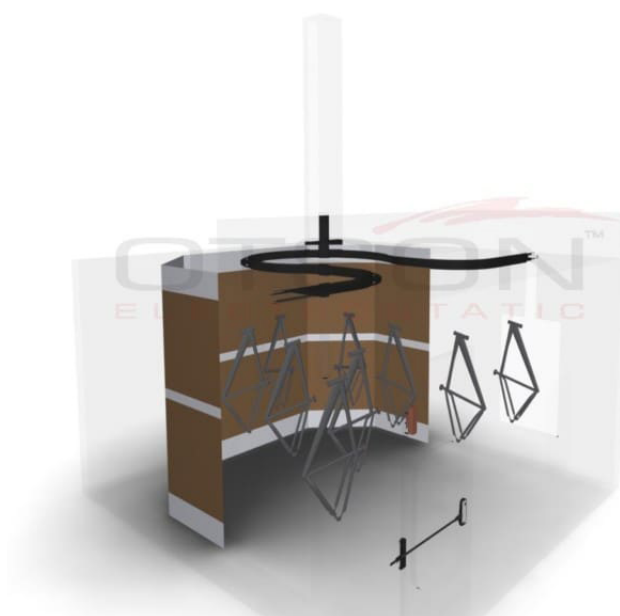
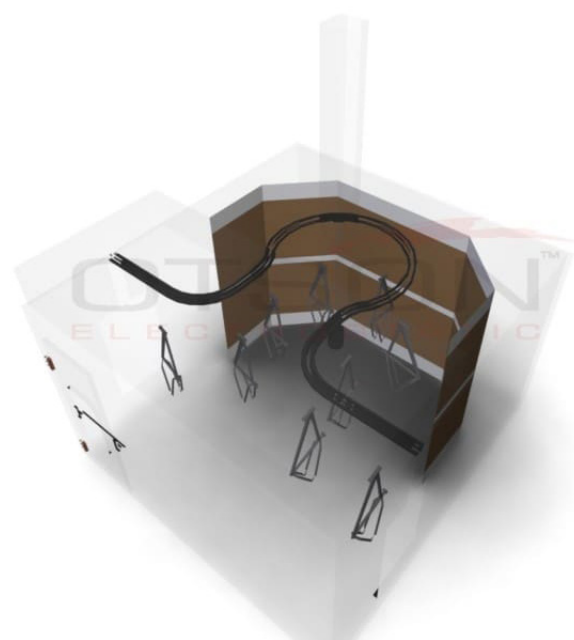
## Application- Bicycle Painting -3D



*Primer Coating*



*Final Coating*



## Application- Box & Baking Tray



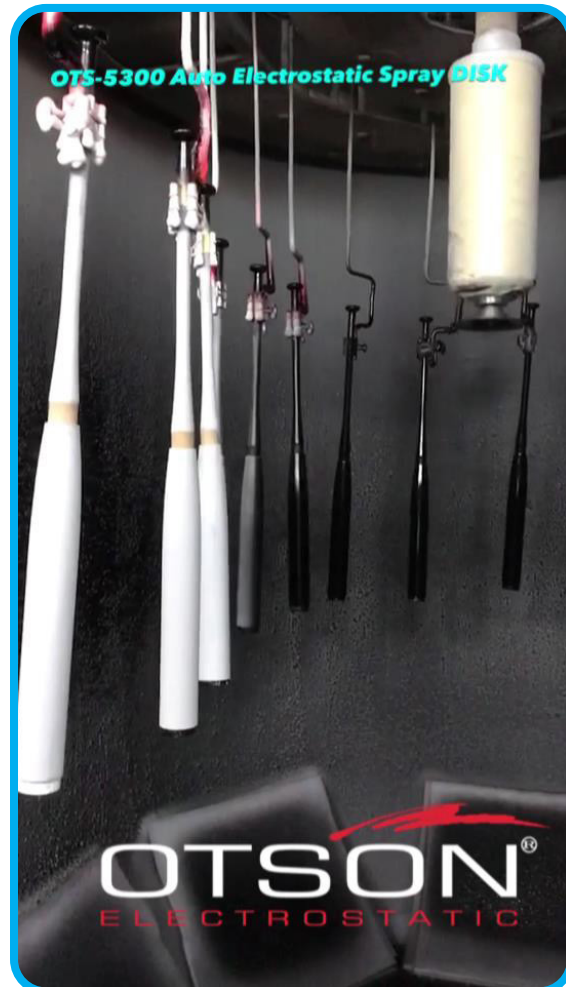
*Primer Coating*



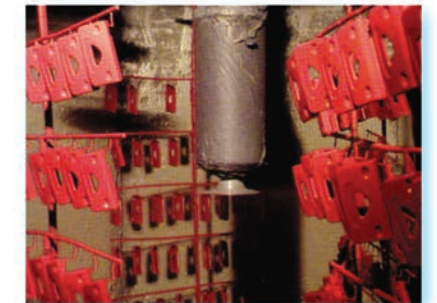
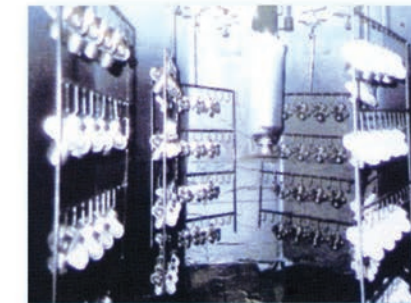
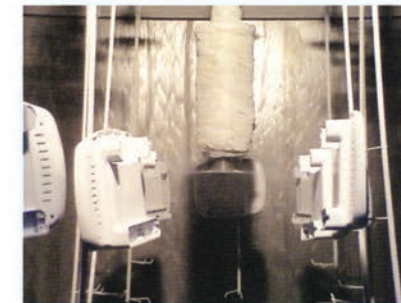
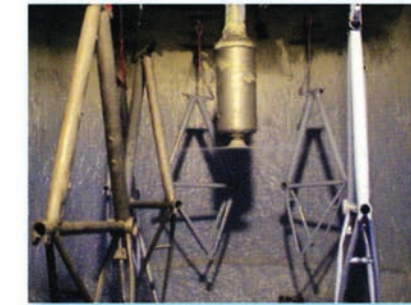
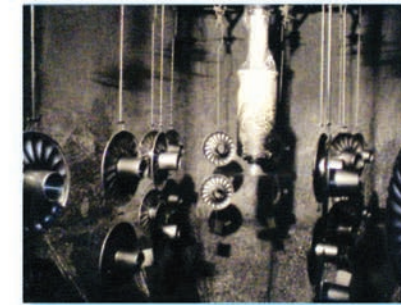
*Final Coating*



## Application- Glass Bottle -Baseball Bat - Exhaust Pipe



## Application - Industries



- Small parts
- Bicycle
- Application
- Small parts
- Bicycle
- Computer Housing
- Stationery
- Wooden Furniture
- Hardware
- Lockers
- Freezers
- Iron Railing
- Display Cases
- Office Partitions
- Medical Equipment
- Rest room Partitions
- Roller Bars
- Metal Doors
- Decorative Lamps
- Electrical Home Appliances
- Car Accessories, Teflon Pot
- Sports Equipment
- Handcraft
- Files
- Desks
- Sports Equipment
- Handcraft Computer
- Housing
- Stationery
- Wooden Furniture
- Hardware
- Lockers
- Freezers
- Iron Railing
- Display Cases
- Refrigerators
- Heavy Machinery
- Office Equipment



2K/3K Mixer and Color Change System- Disk Electrostatic Spray

Color change valves, also known as paint dispensers, are a valuable investment for any business in the painting industry. These devices are used in paint shops to mix and dispense paint quickly and accurately, reducing waste and cleanup time.

One of the key benefits of a color change valve is its ability to automatically switch between different paint colors, which can save time and increase efficiency. This feature is especially useful for businesses that work on multiple projects and need to switch between colors frequently.

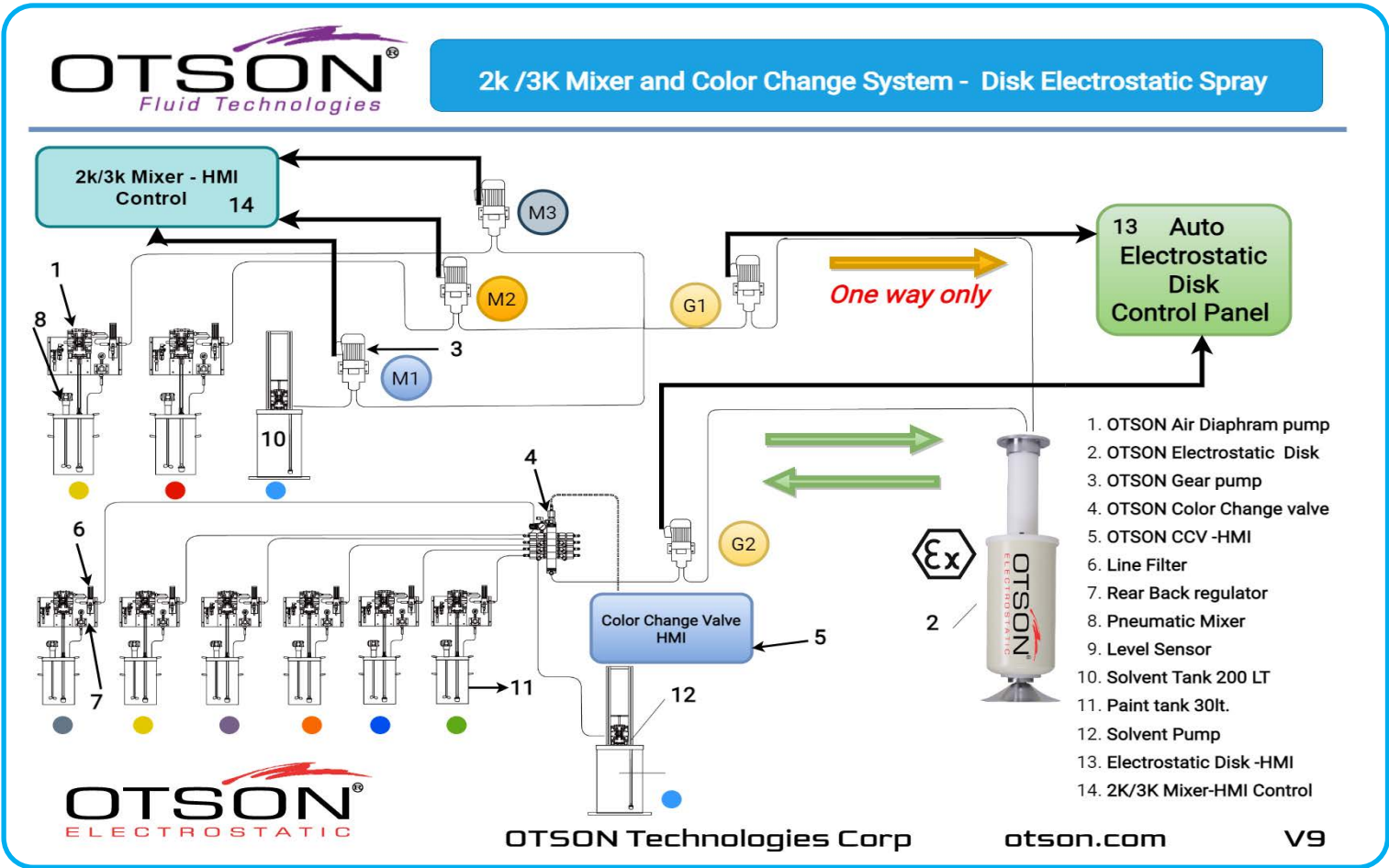
Another advantage of color change valves is their mixing capabilities. These devices can mix the paint with hardeners, reducers, or other additives as it is dispensed, ensuring that the paint is properly mixed and ready to use, which can help improve the quality of the paint job.

In terms of market view, the use of color change valves is prevalent in industrial paint application such as automotive, aerospace, and wood finishing industries. Many companies are investing in color change valves to improve their production efficiency and reduce cost.

Overall, color change valves are an essential component of any paint shop, providing accurate and efficient paint dispensing and color change capabilities. Investing in a high-quality color change valve can help businesses in the painting industry to increase productivity, improve the quality of their paint jobs and save money in the long run.

2K/3K WATERBASED

2K/3K SOLVENT



The 2K-3K Electronic Mixing & Dosing System is an advanced system designed for use in a liquid electrostatic spray system. It is used to control the mixing and dosing of two or three liquid components in a precise and accurate manner. The system uses electronic sensors and controls to measure and adjust the flow rate of each component, ensuring that the correct proportion of liquids are mixed and sprayed. The end result is a more uniform and efficient application of the sprayed liquid, resulting in improved product quality and increased



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The 2K-3K Electronic Mixing & Dosing System typically comprises of the following components:

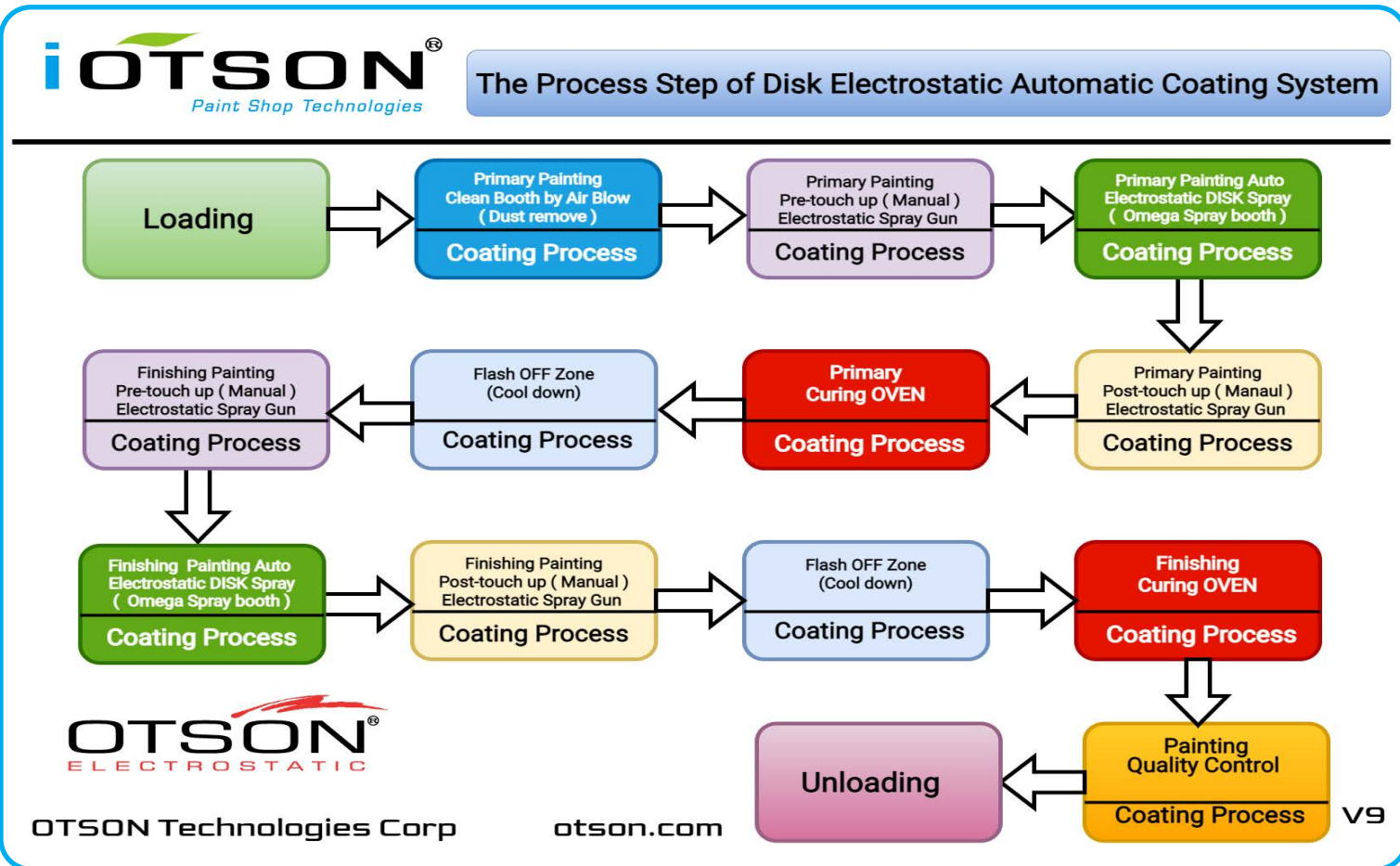
- **Metering Pumps:** These pumps are used to accurately control the flow rate of each component, ensuring that the correct proportion is mixed and sprayed.
- **Mixing Chamber:** The mixing chamber is where the two or three liquid components are combined and mixed together.
- **Control Unit:** The control unit is the heart of the system and is responsible for monitoring and adjusting the flow rate of each component. It may use electronic sensors, computer control and software to manage the mixing and dosing process.
- **Display Unit:** A display unit is used to show the operator the current status of the system, including the flow rate of each component, total amount of liquid mixed and any alarms or faults that may arise.

The system may also be equipped with additional features such as automatic cleaning, continuous monitoring, and alarms for low level and low pressure, to ensure the reliable and consistent operation of the mixing and dosing process.

Overall, the 2K-3K Electronic Mixing & Dosing System provides precise control over the mixing and dosing of two or three liquid components, which results in a more efficient, consistent and uniform application of the sprayed liquid.



The Process Steps of Disk Electrostatic Automatic Coating System



Application - Industry





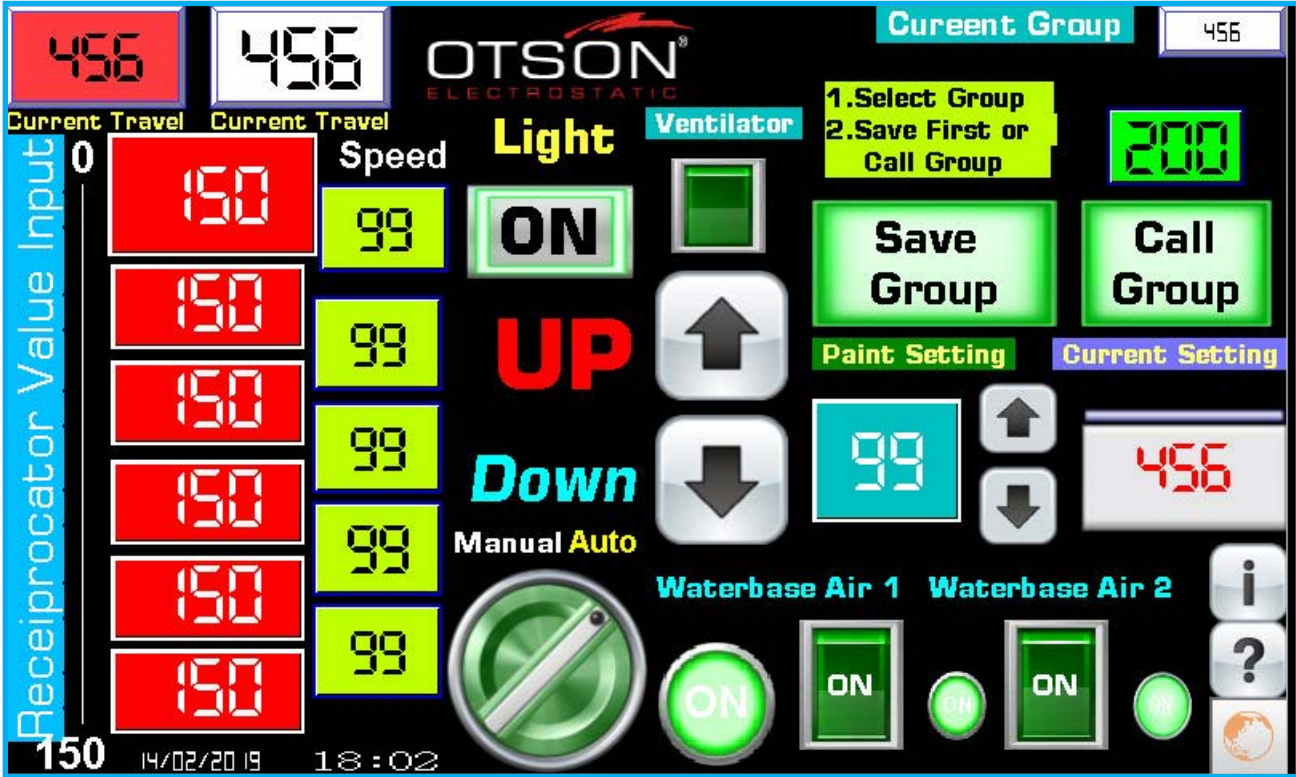
Application - Spray Range



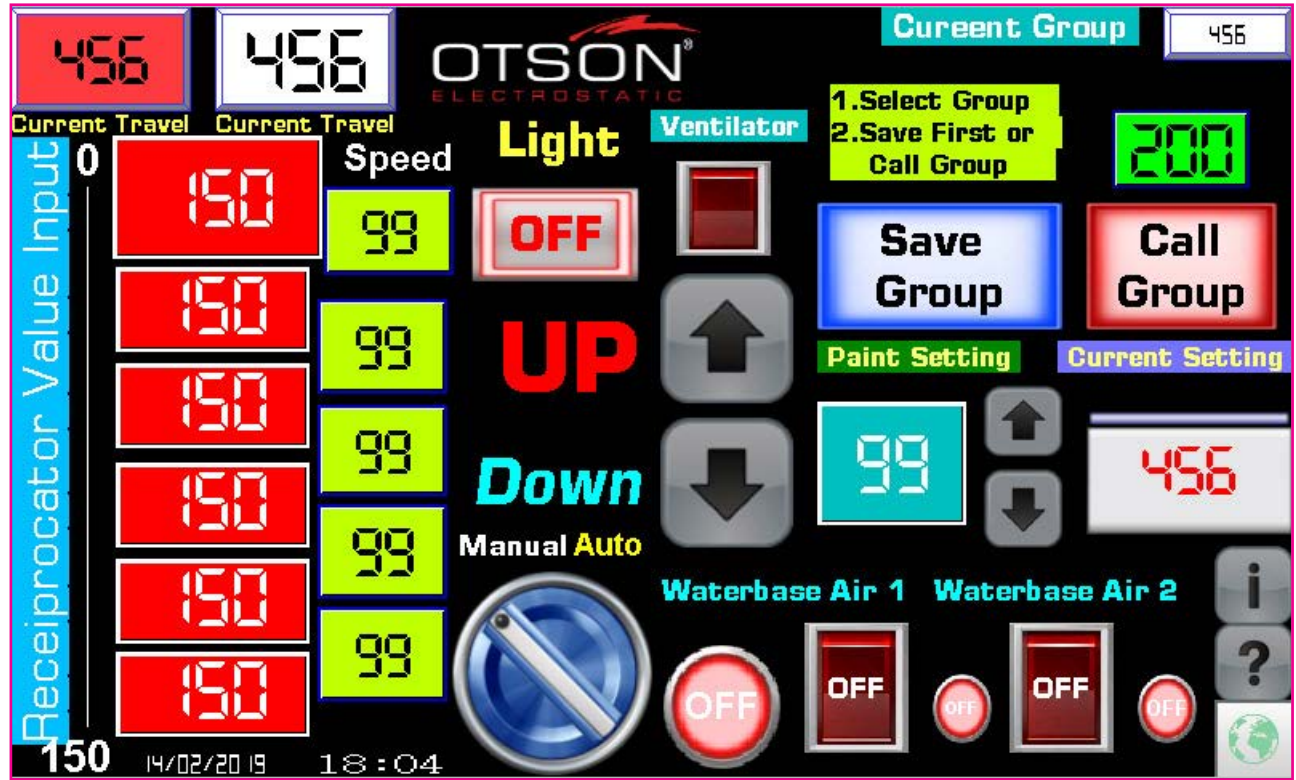
.....With the widest industrial spray range



**OTS - 5700**  
Disk (Disc) Electrostatic Automatic Coating System



10.1" Touch Panel Industrial (HMI)



Electrostatic Current UMA

Electrostatic Voltage KV





## Specification

### OTS-5700 /5300 Microcomputer Control Panel ( 10" Man-Machine Interface )

- **Input Voltage:** AC 200V ~ 415V 50hz / 60hz (3 phase ) ± 5%
  - **Power Consumption :** 2.5 KVA
  - **Dimension :** 420 (L) x 730 (w) x 1710 (H) mm
  - **Weight :** 110 kg
  - **Servo Motor Controlled Reciprocator.**
  - **Touch Panel Interface by using 10" Color Screen.**
  - **Memory Capacity up to 200 sets of Operation.**
  - **Color Change Control ( 2 colors ) Interlocking**
  - **Door-in-Door Design to Achieve Efficient Anti-Dust Effect.**
- Coatings: Solvent-base & Waterborne Coatings



### OTS-5100 / 5500 Microcomputer Control Panel ( 10" Man-Machine Interface )

- **Input Voltage:** AC 200V ~ 415V 50hz / 60hz (3 phase ) ± 5%
  - **Power Consumption :** 2.5 KVA
  - **Dimension :** 420 (L) x 730 (w) x 1710 (H) mm
  - **Weight :** 110 kg
  - **Servo Motor controlled reciprocator.**
  - **Touch Panel interface by using 10" colour screen.**
  - **Memory capacity up to 200 sets of operation.**
  - **Door-in-Door design to achieve efficient anti-dust effect.**
- Coatings: Solvent-base Coatings



### OTS-5000 Microcomputer Control Panel

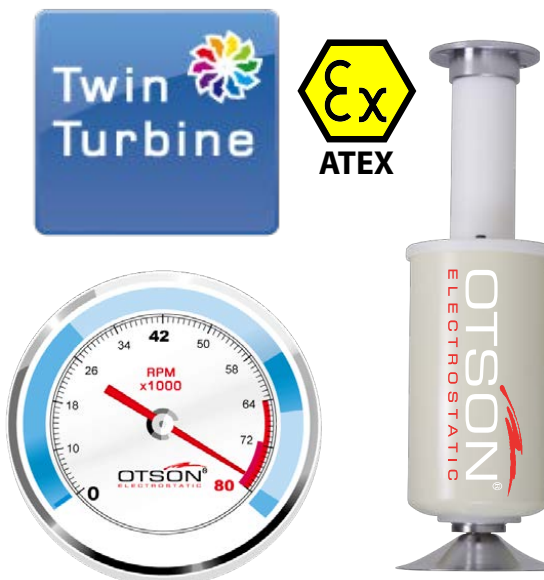
- **Input Voltage:** AC 200V ~ 415V 50hz / 60hz (3 phase ) ± 5%
  - **Power Consumption :** 2.5 KVA
  - **Dimension :** 420 (L) x 730 (w) x 1710 (H) mm
  - **Weight :** 110 kg
  - **Japan's Fuji Frequency Converter.**
  - **German's EAO push button panel.**
  - **Door-in-Door design to achieve efficient anti-dust effect.**
  - **Ergonomic design. Digital control.**
- Coatings: Solvent-base Coatings



## Specification

### Twin-Turbine Rotary Atomizer

- **Air Pressure :** 1.0 ~8.0 kg/cm<sup>2</sup> .
- **Air Consumption :** 68 m<sup>3</sup>/Hr. ( 40 SCFM)
- **Speed :** max 60000 RPM (no-load) -Type A
- **Viscosity :** Max 300cp =300 mPs=96 secs (NK2 Cup)
- **Twin-Turbine design in providing high torque and atomization effect.**



### Turbo Rotary Atomizer

- **Air Pressure :** 1.0 ~4.0 kg/cm<sup>2</sup> .
- **Air Consumption :** 34 m<sup>3</sup>/Hr. ( 20 SCFM)
- **Speed :** max 30000 RPM (no-load)
- **Viscosity :** Max 60cp =60 mPs=20 secs (NK2 Cup)
- **Turbo design in providing high torque and atomization effect.**



### High Atomization Spray Disk (Disc)

- **Spray Disk (Disc) size :** Φ170mm, Φ 230mm, Φ300mm.
- **Twin-Turbine pneumatic nozzle achieves superb atomization effect even for high-viscosity paint.**
- **High-speed balance calibration, providing excellent stability of atomization Disk (Disc) .**



## Specification

### OTS-5000 & OTS-5100 Liquid Electrostatic Power Supply

Out Voltage	0~70 KV DC(-) -OTS-5000 0~100 KV DC(-)-OTS-5100
Out Current	50 microamperes
Intercepting Current	20~150 microampere
Input Voltage	220V AC (50Hz)
Weight	12 kg
Dimensions	300(L)x120(W)x350(H) mm
Coatings	Solvent-base Coatings



### OTS-5300 ,OTS-5500 ,OTS-5700 Liquid Electrostatic Power Supply

Out Voltage	0~110 KV DC(-)
Out Current	50 microamperes
Intercepting Current	20~150 microampere
Input Voltage	220V AC (50Hz)
Weight	12 kg
Dimensions	300(L)x120(W)x350(H) mm
Coatings	Solvent-base & Waterborne Coatings



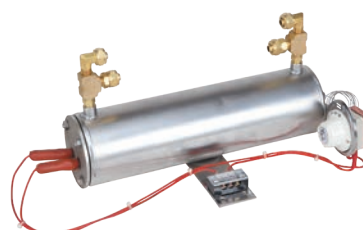
### Gear Pump

Input Voltage : AC 220 V ~ 380 V ±10% 3 Phase  
**Horsepower : 1/4 HP**  
 Dimension : 130 (L) x 600 (w) x 30 (H) mm  
**Weight : 13 kg**  
 Output : 3cc or 6cc / rev 200 cc ~ 3000 cc / min (digital control)  
**Spray Hose : Double-layer Teflon paint hose**  
 Pump Material : Hardened Steel CMoWCrVCo HRC = over 63)  
 Titanium plated for durable use and wearing resistance.



### Air Heater

Dimension : 410 (L) x 170 (w) x 150 (H) mm  
**Weight : 5 kg**  
 Input Voltage : AC220V , 500W  
 Temperature : 0 degree C ~ 120 degree C



### Water Filter & Oil Filter

Dimension: 170 (L) x 340 (w) x 90 (H) mm  
**Weight : 3 kg**  
 Water Filter : 3650 l/s  
 Oil Filter : 1900 l/s  
 MAX Operation Pressure : 150psi



## Specification

### IOT ( Internet of Things ) Sensor System

- Air Flow
- Paint flow
- Paint Pressure
- Air Pressure
- Environment VOC Detect Sensor
- Monitor motor
- Smoke Sensor
- Air Temperature and humidity
- AI Dashboard System
- Power Consumption Monitor



### Remote Digital Video Monitor System

- **Video Input:** 8 channels
- **Video Output:** HDMI, VGA
- **Compression Format:** H.265/H.264
- **Recording Resolution:** up to 8MP (4K)
- **Playback Resolution:** up to 8MP (4K)
- **Hard Drive Capacity:** up to 6TB (depending on the model)
- **Network Interface:** RJ45, 10M/100M/1000M Ethernet with PoE support
- **Remote Access:** Yes, via PC, smartphone or tablet
- **Audio Input/Output:** 1 channel input, 1 channel output
- **USB:** 2 USB ports (1 USB 2.0, 1 USB 3.0)
- **PoE Ports:** 8 ports with PoE support
- **Power Supply:** DC 48V/1.25A



**x 8 CH x 8 CH**



### Reciprocator

- **Length:** 1200mm~ 3000mm.
- **Single travel, multi-speed shifting.**
- **Control Method:**
  1. Frequency Converter for speed control.
  2. Man-machine interface control panel is controlled by servo motor for regulating the travel speed.

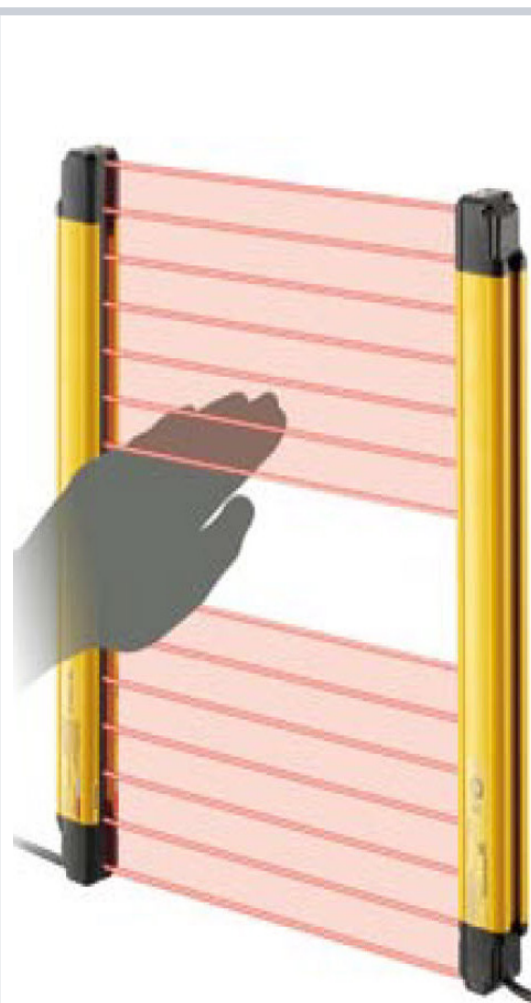




## Specification

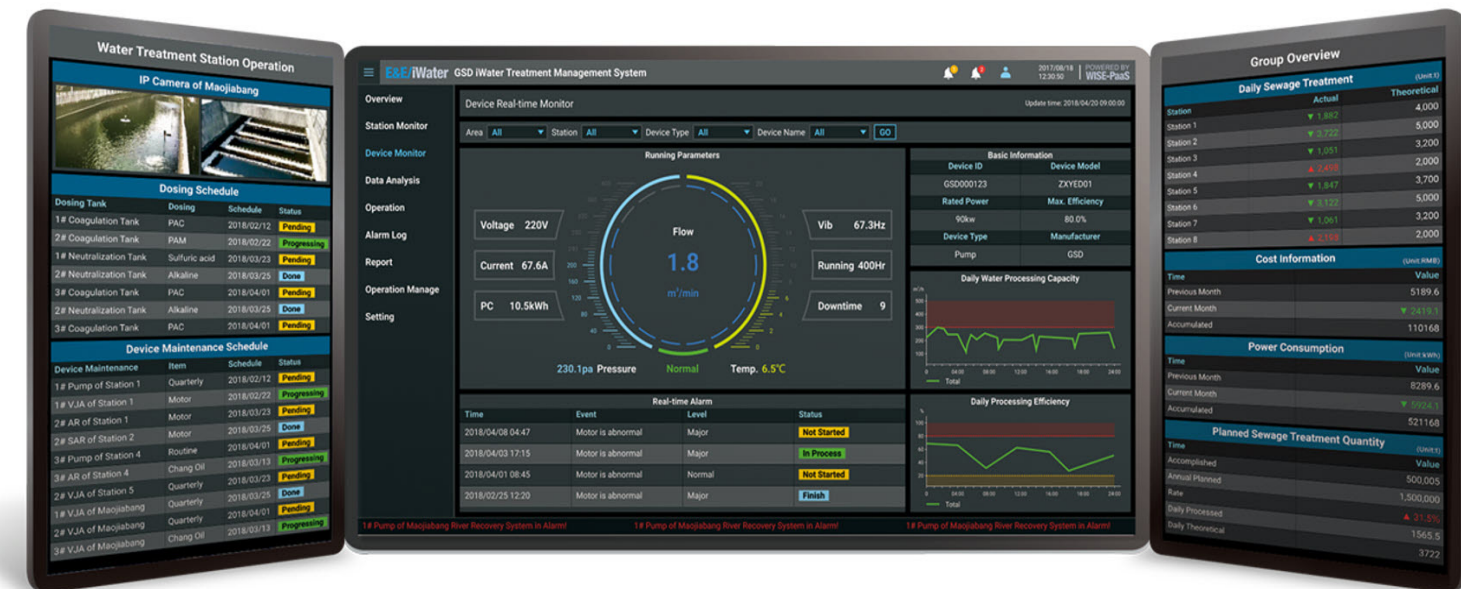
### Safety Light Curtains

- Safety light curtain Type 4.
- Suitable for detection of operators.
- Consists of an emitter and receiver.
- In combination with a safety guard monitor for protection up to safety level PLe per EN ISO 13849-1 or up to SIL 3 per EN 62061.
- 14mm resolution for finger detection.
- Available in various protective field heights: 200, 400, 600, 800, 1000 and 1200mm.
- Detection range 0.5m to 6m.
- Can be connected to GLM1 safety controller.
- Gasealed to IP65.
- Fitted with quick disconnecter.
- Supplied with mounting brackets as standard



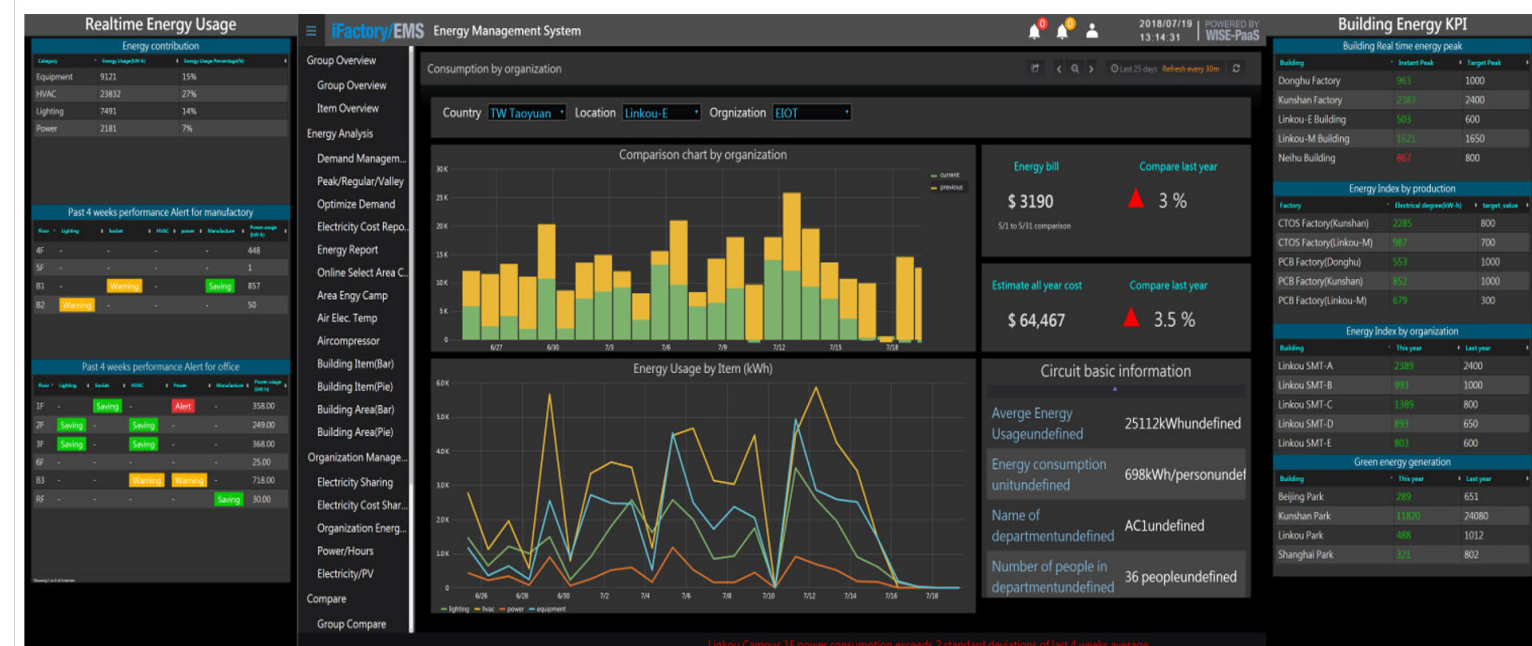
## iOTSON<sup>®</sup> Paint Shop Technologies

### Dashboard of Electrostatic Spray Coating – Paint Shop



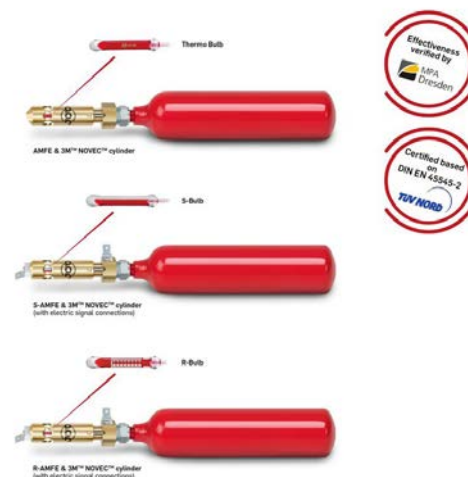
## iOTSON<sup>®</sup> Paint Shop Technologies

### Energy & Environment-Dashboard of Paint Shop



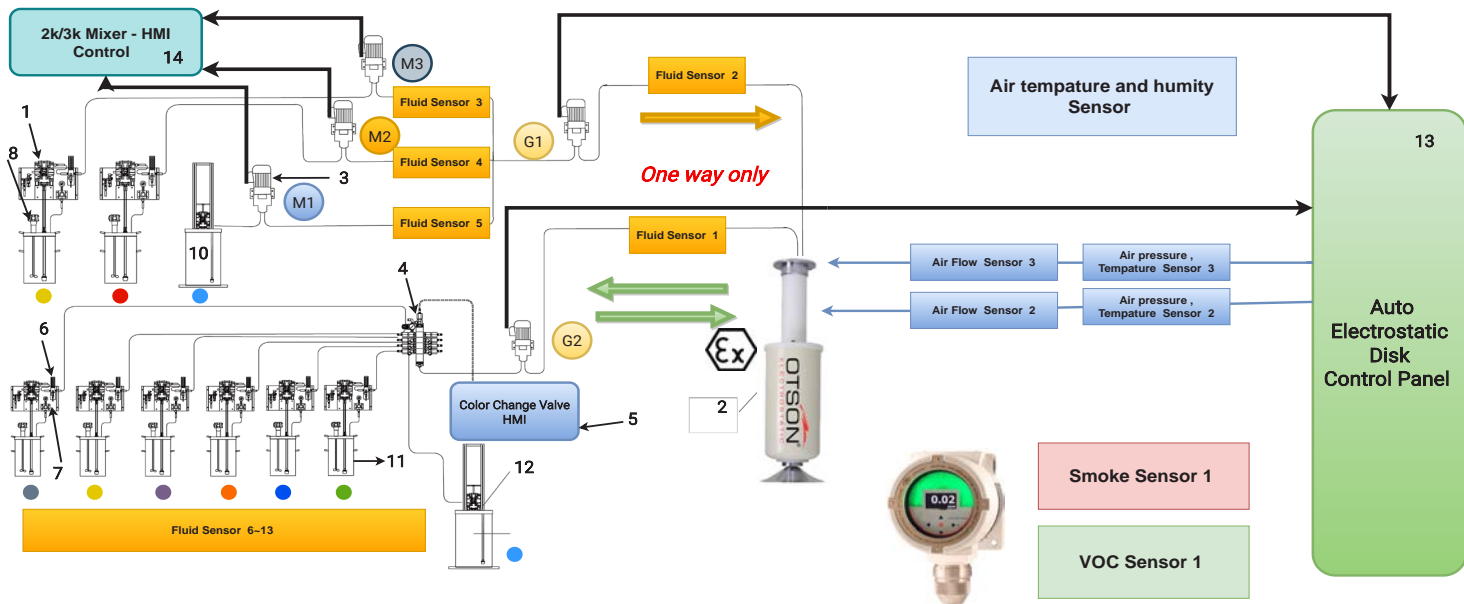
### AMFE - AUTOMATIC MINIATURE FIRE EXTINGUISHER

- Dimensions (without cylinder):  
ø 16 mm x 64 mm/0,63" x 2,52"
- Minimum installation depth: 20 mm/0,79" (w/o cylinders)
- Activation temperature: 57°C – 260°C/134,6° F - 500° F
- Extinguishing agents: 3MTM NOVECTM, CO2,
- Lifetime: 9 years + (for the cylinders)
- Maintenance free
- Lifetime: for release mechanism (see manual for details)





2k /3K Mixer and Color Change System - OTS-5100 Auto Disk (DISC) Electrostatic Spray System - IOT System



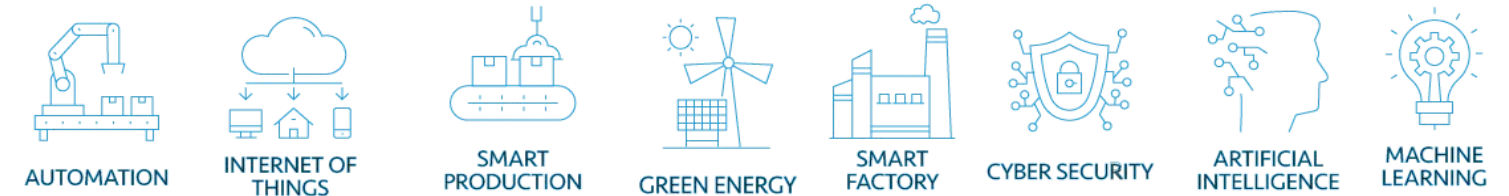
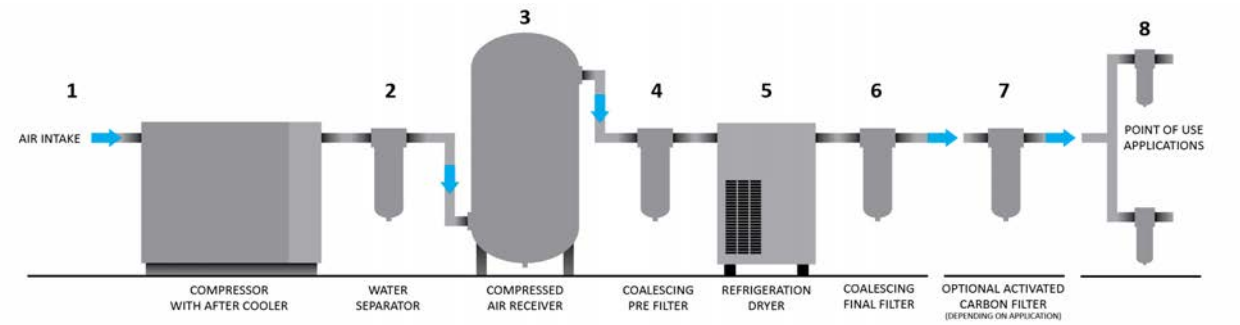
OTSON  
Innovative Technology of Powder and Liquid Electrostatic Spray Coating Solution



OTSON Technologies Corp. proprietary and confidential OTSON.com P.154



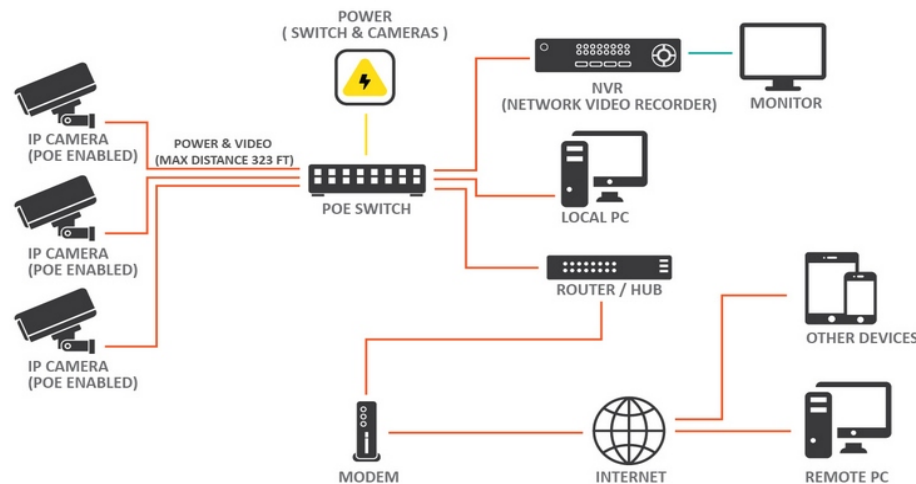
1. OTSON Air Diaphragm pump
2. OTSON Electrostatic Disk
3. OTSON Gear pump
4. OTSON Color Change valve
5. OTSON CCV -HMI
6. Line Filter
7. Rear Back regulator
8. Pneumatic Mixer
9. Level Sensor
10. Solvent Tank 200 LT
11. Paint tank 30lt.
12. Solvent Pump
13. Electrostatic Disk -HMI
14. 2K/3K Mixer-HMI Control



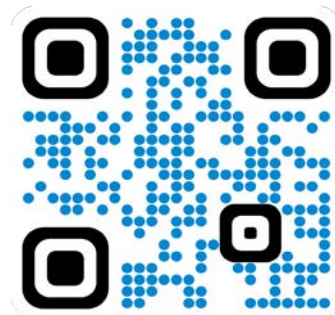
**OTSON**  
Innovative Liquid Electrostatic spray Paint Shop Solutions- Industry 5.0



OTSON Technologies Corp. otson.com



CAT 5 OR 6 CABLE COAX POWER



**OTSON**  
ELECTROSTATIC



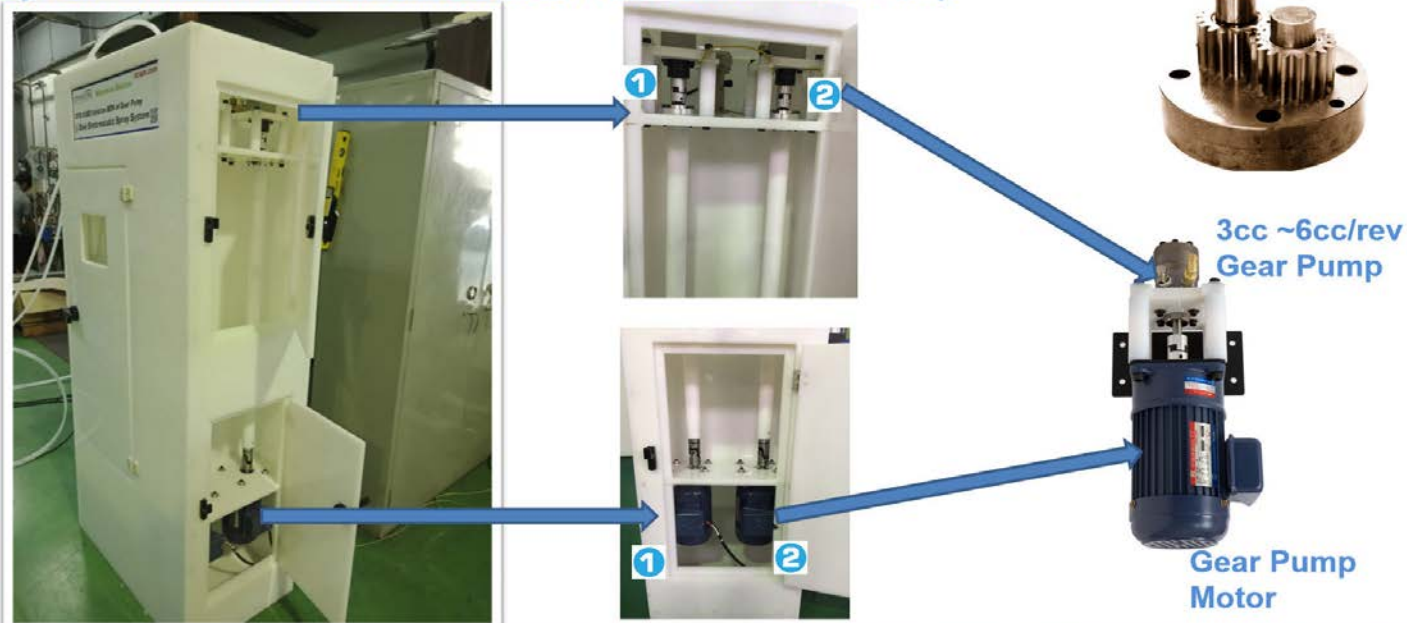


Easy Paint Kitchen for Waterbase and Solvent Paints



Dimension: 76x43 x170 cm    Weight : 80 Kg

Easy Paint Kitchen for Waterbase and Solvent Paints - Gear Pump



2K/3K WATERBASED

2K/3K SOLVENT

**MAX 60000RPM**  
(no loading Disk (Disc) )

**Twin-Turbine  
Rotary  
Atomizer**

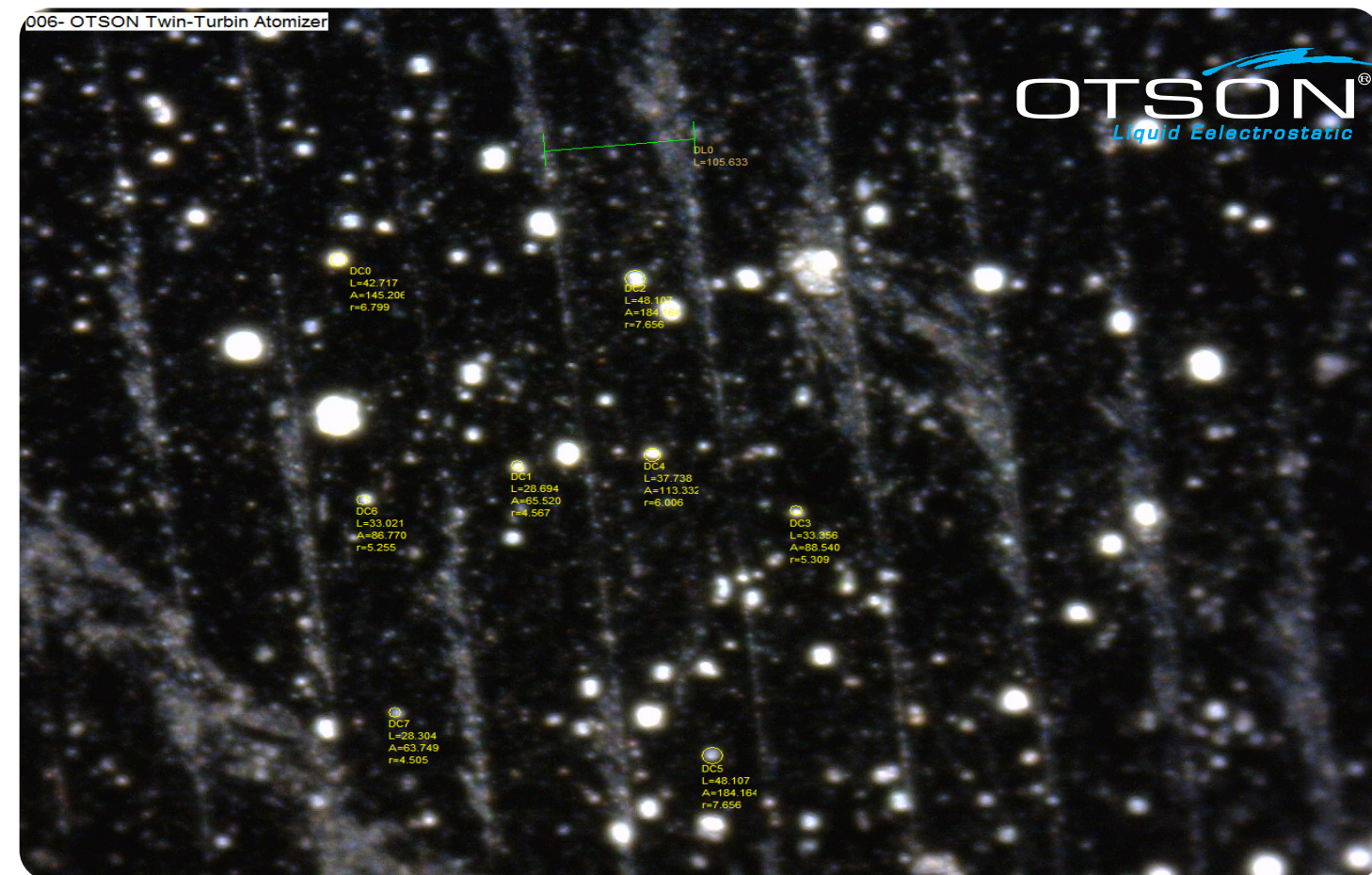


300 mm  
Spray Disk (Disc)

230 mm  
Spray Disk (Disc)

170 mm  
Spray Disk (Disc)

The microscope picture (500X) of atomization droplet which is done by our atomizer , the droplet diameter between 1.0- 5.0um.





Model /Function	OTS-5700+G2	OTS-5500+G2	OTS-5300+G2	OTS-5100+G2	OTS-5000+G2
a. Microcomputer Control Subsystem					
Microcomputer Control Panel ( HMI ) x 1 set	10"	10"	10"	10"	
Memory Capacity for Storage Coating Parameters	199 sets	199 sets	199 sets	199 sets	
Air Flow Control x 1 set	Manual	Manual	Manual	Manual	Manual
Paints Flow Control (A) x 1 set	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual	Manual
Paint Flow Control (B) x 1 set	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual	Manual
Color Change Control ( 2 colors ) x 1 set	Manual	Manual	Manual	Manual	Manual
Reciprocator Stoke 5 stages control x 1 set	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual	Manual
Reciprocator Speed Control x 1 set	Auto / Manual	Auto / Manual	Auto / Manual	Auto / Manual	Manual
Atomizer Speed ( RPM ) Control x 1 set	Manual	Manual	Manual	Manual	Manual
Electrostatic Power Supply Control x 1 set	0~110KV	0~110KV	0~110KV	0~110KV	0~70 KV
Electrostatic Power Display x 1 set	LED	LED	LED	LED	LED
Electrostatic Current Display x 1 set	LED	LED	LED	LED	LED
Electrostatic Spark Protection System x 1 set	YES	YES	YES	YES	YES
Paints,Coatings	Solvent-base & Waterborne	Solvent-base	Solvent-base & Waterborne	Solvent-base	Solvent-base
b.Spray Subsystem					
High Rotary Atomizer x 1 set (no loading spray Disk (Disc) )	60000 rpm	60000 rpm	60000 rpm	60000 rpm	30000 rpm
High Atomization Spray Disk (Disc) x 1 set	170 mm ~300 mm	170 mm ~300 mm	170 mm ~300 mm	170 mm ~300 mm	170 mm ~300 mm
H.V Cable x 1 set	11m ~ 40m	11m ~ 40m	11m ~ 40m	11m ~ 40m	11m ~ 40m
Teflon Spraying Tube x 1 set	11m ~ 40m	11m ~ 40m	11m ~ 40m	11m ~ 40m	11m ~ 40m
PU Air Tube x 2 sets	11m ~ 40m	11m ~ 40m	11m ~ 40m	11m ~ 40m	11m ~ 40m
c.High Voltage Electrostatic Power Subsystem					
Electrostatic Power Supply x 1 set	Max 110KV	Max 110KV	Max 100KV	Max 100KV	Max 70KV
d. Reciprocator Subsystem					
Reciprocator x 1 set (Stroke Length 1.6 Meters ~7.0 Meters)	1.6 M ~7.0 M	1.6 M ~7.0 M	1.6 M ~3.0 M	1.6 M ~3.0 M	1.6 M ~3.0 M
Safety Sensor x 1 set	Yes	Yes	Yes	Yes	Yes



Model /Function	OTS-5700+G2	OTS-5500+G2	OTS-5300+G2	OTS-5100+G2	OTS-5000+G2
e.Paint Supply Subsystem					
OTS-4000 (optional) Colour Change Valve +HMI	2~20 Colours ( Auto Clean )	2~20 Colours (Auto Clean )	2 ~ 20 Colours ( Manual Clean )	2~20 Colours ( Manual Clean )	2 Colours
OTS-4200 (optional) 2K and 3K Mixer system +HMI	2K and 3K	2K and 3K	2K and 3K	2K and 3K	2K and 3K
Gear Pump + Motor (A) x 1 set (optional) 3cc / rev 200cc~1500 cc /mim	3cc / rev	3cc / rev	3cc / rev	3cc / rev	3cc / rev
Gear Pump + Motor (B) x 1 set (optional) 6cc / rev 200 cc ~ 3000 cc / min	6cc / rev	6cc / rev	6cc / rev	6cc / rev	6cc / rev
f . Air Supply Subsystem					
Air Heater -Air Temperature Control x 1 set	Manual	Manual	Manual	Manual	Manual
Air Filter ( screening oil and water ) x 1 set	Auto	Auto	Auto	Auto	Auto
g. Smart Monitor Sensor Subsystem (optional )					
Air Flow	Local / Remote monitor	Local / Remote monitor			
Paint flow	Local / Remote monitor	Local / Remote monitor			
Paint Pressure	Local / Remote monitor	Local / Remote monitor			
Air Pressure	Local / Remote monitor	Local / Remote monitor			
Environment VOC Detect Sensor	Local / Remote monitor	Local / Remote monitor			
Monitor motor	Local / Remote monitor	Local / Remote monitor			
Smoke Sensor	Local / Remote monitor	Local / Remote monitor			
Air Temperature and Humidity	Local / Remote monitor	Local / Remote monitor			
AI Dashboard System	Local / Remote monitor	Local / Remote monitor			
Power Consumption monitor	Local / Remote monitor	Local / Remote monitor			
h. Safety Subsystem (optional )					
Safety Light Curtains Interlocking with disc system	Auto	Auto			
Fire Fighting System ( For DISK control panel system and atomizer only )	Auto	Auto			
I. Security System (optional )					
Remote Digital Video Monitor System (RDVRS)	Local / Remote monitor	Local / Remote monitor			
j. Small water-borne -Paint kitchen					
Special Isolation paint kitchen with 2 gear pump and air allegator	Yes		Yes		

## OTS-8000

Auto Electrostatic Spray Gun System



## OTS-9000

Auto Electrostatic Spray Bell System



\*The appearance of all products, detail, figure and specification are subject to change at any time without notice.

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