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## Auto Electrostatic Spray B





## Overview

The OTSON Auto Liquid Electrostatic Spray Bell, model number OTS-9000, utilizes high compressed air to atomize paint as it passes through the special nozzle, which can sometimes cause the paint to be thrown away. The atomized paint is then negatively charged and attracted to the object, which has a less negative charge than the paint. The charged objects receive initial momentum from the paint pressure and air pressure, resulting in an expelling effect between the paint carrying electrostatic and the live particles, further atomizing the paint and forming a fine mist. Due to the electrostatic occlusion, any lost paints are drawn back to the workplace, generating a surrounding electrostatic effect. This process achieves the purpose of electrostatic coating, providing a transfer efficiency of up to 95% and significantly reducing the over spraying phenomenon. The OTS-9000 model is a highly effective tool for achieving high-quality finishes with electrostatic coating technology.



Transfer Efficiency of Different Spray Technologies



## Dual Coating for Solvent and Waterborne Paint









Additionally, the OTS-9000 Auto Electrostatic Spray Bell System is designed to reduce CO2 emissions and overspray, which can help to save cost and be more environmentally friendly, ultimately leading to cost savings for your customers.

The system 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.



The OTS-9000 Auto Electrostatic Spray Bell System is safe and compliant for use in various industrial settings, including potentially explosive atmospheres. It is certified by ATEX, the standard for equipment and protective systems in these environments. We provide customized solutions to meet our customers' needs, including integration of electrostatic high rotary atomizer technology and special nozzle structures for 2K and water-based paints. Our system increases production rates and cost savings for a high return on investment.





#### OTS-9000 Auto Liquid Electrostatic Spray System



The OTSON Auto Liquid Electrostatic Spray Bell, model number OTS-9000, comes equipped with all necessary standard equipment, including an air regulating valve, electrostatic power supply, electrostatic spray unit, and a choice of different cups to suit the customer's needs. When used in conjunction with a paint tank, gear pump, paint filter, paint stabilizing valve, air dryer, and air compressor, the OTS-9000 forms a complete set of liquid electrostatic spraying equipment that enables customers to carry out spray operations simply by pouring paint into the bucket. By utilizing the high compressed air to atomize paint as it passes through the special nozzle, the OTS-9000 generates a surrounding electrostatic effect, drawing any lost paints back to the workplace and achieving a transfer efficiency of up to 95%. With its advanced electrostatic coating technology, the OTS-9000 is an effective tool for achieving high-quality finishes.



## Features

- Dual Coating- Solvent and Waterborne Paint
- Improve Coating Quality
- Reduce Air Pollutions
- Reduce Water Pollutions
- High Transfer Efficiency Spray Painting
- High Atomized Bell Nozzle
- Easy Handle for Long Term Operation
- Long Life Operation
- Low VOC Emissions
- Low Failure Rate and Easy Maintenance





The Spray Direction of High Atomized Nozzle









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Innovative Liquid Electrostatic spray Paint Shop
Solutions- industry 5.0



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## Different coatings thicknesses by OTSON Electrostatic Spray System

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 Classification of Electrostatic Spray Droplet / Particle Size

 5 Micrometers
 10 Micrometers
 300 Micrometers
 1000 Micrometers





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:

Pretreatment and coating process of metal parts in the metal industry



#### **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.



## 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.





## Benefits of Electrostatic Spray Technology

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



## **Return-on-Investment (ROI)**

By replacing Conventional Air Spray gun with Auto Electrostatic Spray Bell System

	Typical	<b>Calculate Your Own Application</b>
Paint price per litre	USD 10	
	Х	Х
Litre Used per Day	100 litres	
	Х	Х
Business Daysper Year	220 days	
Electrostatic Transfer Efficiency	95%	
Annual Savings	USD 209,000.00	



#### The Process Steps of Auto Electrostatic Spray Bell Coating System



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### **OTS-9000** Auto Electrostatic Spray Bell







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## **Bell Spray Angles**





## OTSON<sup>®</sup> OTS-9000

Rotary Speed Control (Atomization)

# Paint Flow Air Flow Pattern Control OTS-9000 Auto Electrostatic Spray Bell

## **Specification**

Liquid Electrostatic Sp	ray Bell	
Input Voltage Bell Length Bell Weight *(no nozzle, hv cable, Fluid and Air Pressure Operating Pressure Coatings	0~110KV DC(-) 250 mm spraying tube and air tube ) 900 g 0 ~ 7 kg/cm <sup>2</sup> (6.86 bar) (0~100) psi Air Supply Solvent-base & Waterborne Coatings	
Electrostatic Power Su	pply	A
Out Voltage	0~110KV DC(-)	OTSON EPS
Out Current	50 microamperes	SOLVENT BASE
Input Voltage	110 V~240 V AC (50/60 Hz)	OTS-9000
Intercepting current	20~150 microamperes	
Weight	12 kg	Control of the second sec
Dimensions	300(L)x120(W)x350(H) mm	



Model Number	9000A
Spare atomizer, without cable or hose	4 kg
Material of Turbine Atomizer and Bell Cup	Alloy (no magnetic)
Life cycles ( valves/bell /bearings/couplings) depend on air quality and Maintenance	1~5 years

Pneumatic supply		
Nano-valve drive air pressure	8 bar mini (120psi) - 10 bar max. (150psi)	
Magnetic turbine bearing air pressure	5 mini (75psi) - 7 bar max. (105psi) from 130 to 180 L/min	
Shaping air pressure	6 bar (90psi) recommended on manifold	
Micro air pressure	0.5 mini (7,5psi) at 1 bar maxi. (15psi) from 20 L/min to 40 L/min	
Drive air consumption	10 NI/min.	
Magnetic turbine bearing air consumption	125 NI/min.	
Shaping air consumption (with respect to air shroud and bell being used)	From 100 to 600 NI/min.	
Turbine rotation air consumption	From 100 to 700 Nl/min. <sup>®</sup>	
Safeguard air quantity	25 litres at 6 bar (90 psi)	
(1): with respect to sprayed flow and rotation speed		
Product supply		
Standard product supply pressure	6 (90psi) to 8 bar (120psi)	
Maximum product pressure	10 bar (150psi)	
Paint flow (depending on paint type)	30 to 3000 cc/min. <sup>2</sup> maxi.	
Viscosity scale (for minimum results)	8 to 30 seconds FORD #4 Cup	
(2): with a product density < 1.1 gr/cm3 and/or of the combination bell and air shroud being used		
Performances		
Rotation speed	15 to 60,000 (6.0 bar) 90 psi (upon diameter of bell cup used)	
Application speed	up to 900 mm/sec	
Transfer Efficiency	85% ~98%	
Color change		
Paint consumption	<sub>25 cm</sub> 3 (paint circuit) <sub>&amp; 25 cm</sub> 3 (pump circuit)	
Paint feeding	OTSON GEAR PUMP (2 color change )	
Rinsing product consumption	<sub>300 cm</sub> 3 (not included rinsing box)	
Standard process time	10 sec (with REVERSE FLUSH)	
Optimized process time	<sub>5 sec</sub> (with REVERSE FLUSH on circuit 1 & 2)	
Same Color (head rinsing + bell cup)		
Time	6 sec.	
Rinsing product consumption	50 cm <sup>3</sup>	
High Electrostatic Voltage		
Voltage maxi.	110 kV	
Current maxi.	50 μΑ	
Bell Cup satfey Distance from substrate	30cm	

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#### OTS-9700 /8300 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-9100 / 8500 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

#### Reciprocator

- Stroke Length: 1200mm~ 7000mm.
- Auto Gun support rod (horizontal Length):1000mm~ 2000mm.
- Single travel, multi-speed shifting.
- Control Method: Speed : Max 36 m/min ( adjustable )
  - Motor capacity : 1kw ( explosion proof )
- 1. Frequency Converter for speed control.
- 2. Man-machine interface control panel is controlled by servo motor for regulating the travel speed.









OTS-9000 & OTS-9100	Liquid Electrostatic Power Supply	A
Out Voltage0~70 KVOut CurrentIntercepting CurrentInput VoltageWeightDimensionsCoatings	DC(-) -OTS-9000 0~100 KV DC(-)-OTS-9100 50 microamperes 20~150 microamperes 220V AC (50Hz) 12 kg 300(L)x120(W)x350(H) mm Solvent-base Coatings	<image/>
OTS-9300 ,OTS-9500 ,OTS-970	Liquid Electrostatic Power Supply	A
Out Voltage Out Current Intercepting Current Input Voltage Weight Dimensions Coatings	0~110 KV DC(-) 50 microamperes 20~150 microamperes 220V AC (50Hz) 12 kg 300(L)x120(W)x350(H) mm Solvent-base & Waterborne Coatings	<image/> <text><text><text></text></text></text>
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		3
Dimension : 410 (L) x 170 Weight : 5 kg Input Voltage : AC220V , 5 Temperature : 0 degree C	(w) x 150 (H) mm 500W ~ 120 degree C	
Water Filter & Oil Filt	er	
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		



#### 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
- Explosion-Proof Video Camera











X 8 CH X 8 CH





#### Safety Light Curtains

- Safety light curtain Type 4.
- Suitable for detection of operators.
- Conisits 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 rannge 0.5m to 6m.
- Can be connected to GLM1 safety controller.
- Gesealed tot IP65.
- Fitted with quick disconnector.
- Supplied with mounting brackets as standard



#### 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)





## **Application - Industries**

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- Small parts
- Bicycle
- Application
- Small parts
- Bicycle
- •Computer Housing
- Stationery
- Wooden Furniture
- •Hardware
- I ockers
- 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

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- Stationery
- Wooden Furniture
- Hardware
- Lockers
- Freezers
- Iron Railing
- Display Cases
- Refrigerators
- •Heavy Machinery
- Office Equipment

Innovative Liquid Electrostatic spray Paint Shop Solutions- industry 5.0







## **Dashboard of Electrostatic Spray Coating – Paint Shop**



## **Energy & Environment-Dashboard of Paint Shop**





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#### Innovative Liquid Electrostatic spray Paint Shop Solutions- industry 5.0



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Model /Function	OTS-9700+G2	OTS-9500+G2
a. Microcomputer Control Subsystem		
Microcomputer Control Panel(HMI)x 1 set	10″	10″
Memory Capacity for Storage Coating Param- eters	199 sets	199 sets
Air Flow Control x 1 set	Manual	Manual
Paints Flow Control (A) x 1 set	Auto / Manual	Auto / Manual
Paint Flow Control (B) x 1 set	Auto / Manual	Auto / Manual
Color Change Control ( 2 colors ) x 1 set	Manual	Manual
Reciprocator Stoke 5 stages control x 1 set	Auto / Manual	Auto / Manual
Reciprocator Speed Control x 1 set	Auto / Manual	Auto / Manual
Atomizer Speed ( RPM ) Control x 1 set	Manual	Manual
Electrostatic Power Supply Control x 1 set	0~110KV	0~110KV
Electrostatic Power Display x 1 set	LED	LED
Electrostatic Current Display x 1 set	LED	LED
Electrostatic Spark Protection System x 1 set	YES	YES
Paints,Coatings	Solvent-base & Waterborne	Solvent-base
b.Spray Subsystem		
High KV Electrostatic Spray Gun x 3 sets	Yes	Yes
High Atomization Spray Nozzle x 3 sets	Round , Flat	Round , Flat
H.V Cable x 3 sets	11m ~ 40m	11m ~ 40m
Teflon Spraying Tube x 3 sets	11m ~ 40m	11m ~ 40m
PU Air Tube x 6 sets	11m ~ 40m	11m ~ 40m
c.High Voltage Electrostatic Power Subsystem		
Electrostatic Power Supply x 1 set	Max 110KV	Max 110KV
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
Safety Sensor x 1 set	Yes	Yes

OTS-9300+G2

OTS-9100+G2

## OTS-9000+G2

10″	10″	
199 sets	199 sets	
Manual	Manual	Manual
Auto / Manual	Auto / Manual	Manual
Auto / Manual	Auto / Manual	Manual
Manual	Manual	Manual
Auto / Manual	Auto / Manual	Manual
Auto / Manual	Auto / Manual	Manual
Manual	Manual	Manual
0~110KV	0~110KV	0~70KV
LED	LED	LED
LED	LED	LED
YES	YES	YES
Solvent-base & Waterborne	Solvent-base	Solvent-base
Yes	Yes	Yes
Round , Flat	Round , Flat	Round , Flat
11m ~ 40m	11m ~ 40m	11m ~ 40m
11m ~ 40m	11m ~ 40m	11m ~ 40m
11m ~ 40m	11m ~ 40m	11m ~ 40m
Max 100KV	Max 100KV	Max 70KV
1.6 M ~3.0 M	1.6 M ~3.0 M	1.6 M ~3.0 M
Yes	Yes	Yes



Model /Function	OTS-9700+G2	OTS-9500+G2
e.Paint Supply Subsystem		
OTS-4000 <mark>(optional )</mark> Colour Change Valve +HMI	2~20 Colours ( Auto Clean )	2~20 Colours (Auto Clean )
OTS-4200 (optional) 2K and 3K Mixer system +HMI	2K and 3K	2K and 3K
Gear Pump + Motor (A) x 1 set (optional) 3cc / rev 200cc~1500 cc /mim	3cc / rev	3cc / rev
Gear Pump + Motor (B) x 1 set (optional) 6cc / rev 200 cc ~ 3000 cc / min	6cc / rev	6cc / rev
f . Air Supply Subsystem		
Air Heater -Air Temperature Control x 1 set	Manual	Manual
Air Filter ( screening oil and water ) $\times$ 1 set	Auto	Auto
g. Smart Monitor Sensor Subsystem (optional )		
Air Flow	Local / Remote monitor	Local / Remote monitor
Paint flow	Local / Remote	Local / Remote
	Local / Remote	Local / Remote
Paint Pressure	monitor	monitor
Air Prossuro	Local / Remote	Local / Remote
All Plessure	monitor	monitor
Environment VOC Detect Sensor	Local / Remote	Local / Remote
	monitor	monitor
Monitor motor	Local / Remote	Local / Remote
	Local / Remote	Local / Remote
Smoke Sensor	monitor	monitor
Air Temperature and Uumidity	Local / Remote	Local / Remote
All remperature and Humidity	monitor	monitor
Al Dashboard System	Local / Remote	Local / Remote
	monitor	monitor
Power Consumption monitor	Local / Remote	Local / Remote
h. Safety Subsystem (optional)	monitor	Inonitor
Safety Light Curtains		
Interlocking with disc system	Auto	Auto
Automatic Miniature Fire Extinguisher (For Spray Gun and Control Panel system Only)	Auto	Auto
I. Security System (optional )		
Remote Digital Video Monitor System (RDVRS)	Local / Remote moni- tor	Local / Remote moni- tor
j. Small water-borne -Paint kitchen		
Special Isolation paint kitchen		
with 2 gear pump and air allegator	Yes	

OTS-9300+G2	OTS-9100+G2	OTS-9000+G2
2 ~ 20 Colours ( Manual Clean )	2~20 Colours ( Manual Clean )	2 Colours
2K and 3K	2K and 3K	2K and 3K
3cc / rev	3cc / rev	3cc / rev
бсс / rev	бсс / rev	бсс / rev
Manual	Manual	Manual
Auto	Auto	Auto
Yes		



## OTSON

#### Innovative Technology of Liquid Electrostatic Spray Coating Systems

#### **Easy Paint Kitchen for Waterbase and Solvent Paints**



Soray Syst



Dimension:76x43 x170 cm

Weight: 80 Kg





## **Application - Industry**





















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## **Application - Spray Range**







## .....With the widest industrial spray range



























## DTSO R Liquid Eelectrostatic





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