



OTS-3000⁺



MANUAL
LIQUID ELECTROSTATIC SPRAY GUN

HYBRID



- * *New Design Model*
- * *New LCD Panel*
- * *Adaptive Electrostatic Power*
- * *More Safety, Low Maintenance*
- * *High Transfer Efficiency*
- * *High Quality Finishing*
- * *Light Weight Gun*



470g



Solvent

Waterborne

DUAL Coating

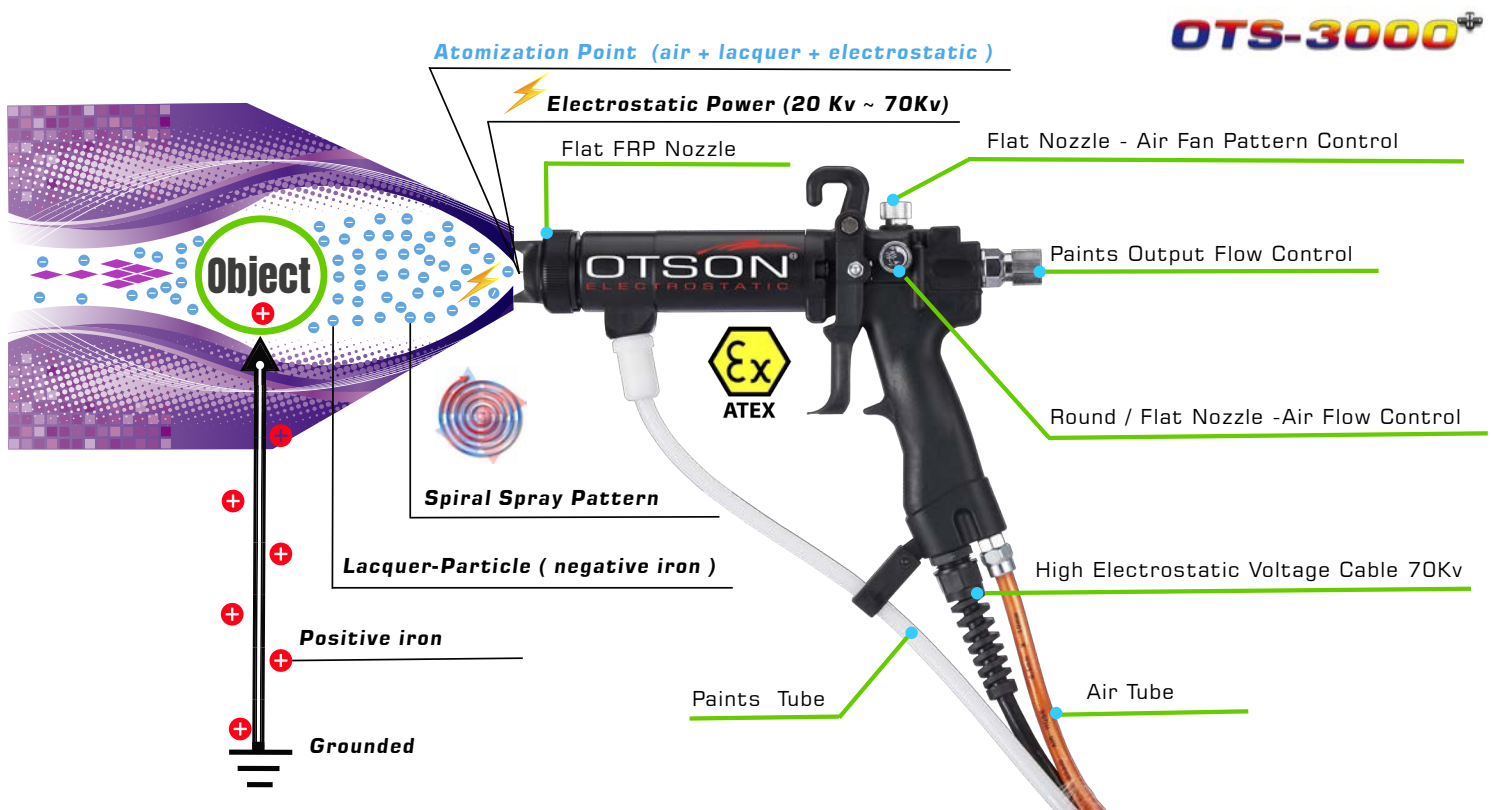
H.E.T
High Efficiency Technology

Overview

The **OTS-3000+G7 Manual Liquid Electrostatic Spray Gun** from OTSON is a high-performance tool that uses air or high-pressure to atomize lacquer and charge the particles upon exiting the nozzle. It offers a variety of air nozzles, caps, and materials that create different spiral spray patterns to reduce lacquer particle velocity and enable effective atomization.

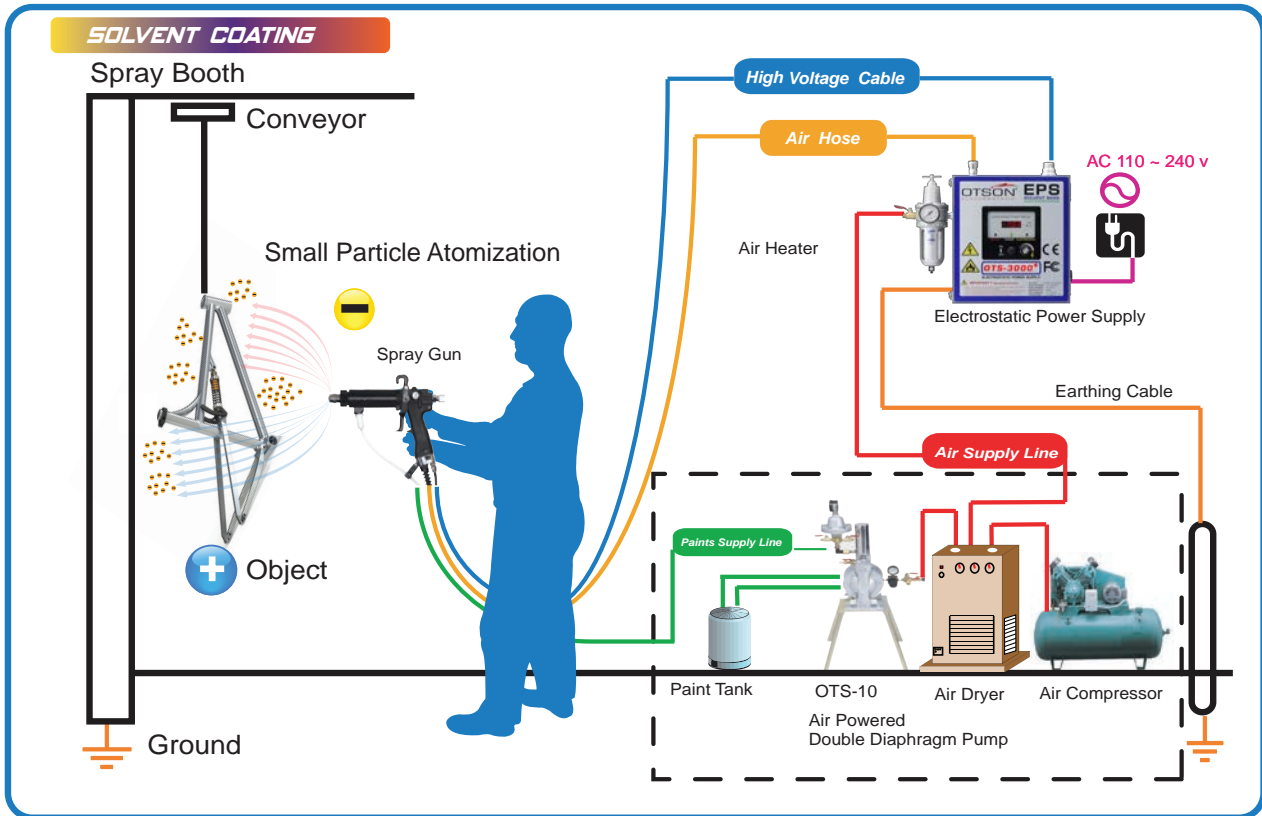
The electrostatic coating technique used by the OTS-3000+G7 involves imparting a charge, typically negative, to the coating material during atomization. This causes the negatively charged spray droplets to be attracted to any earthed surface, such as the workpiece being coated. The attraction effect is so potent that the coating spray can even “wrap around” some objects. This method offers a transfer efficiency of up to 95% and minimizes overspray.

The OTS-3000+G7 is a versatile and reliable tool for a variety of coating applications. It can be used with waterborne paints, solvent paints, and lacquers. It is also easy to clean and maintain.

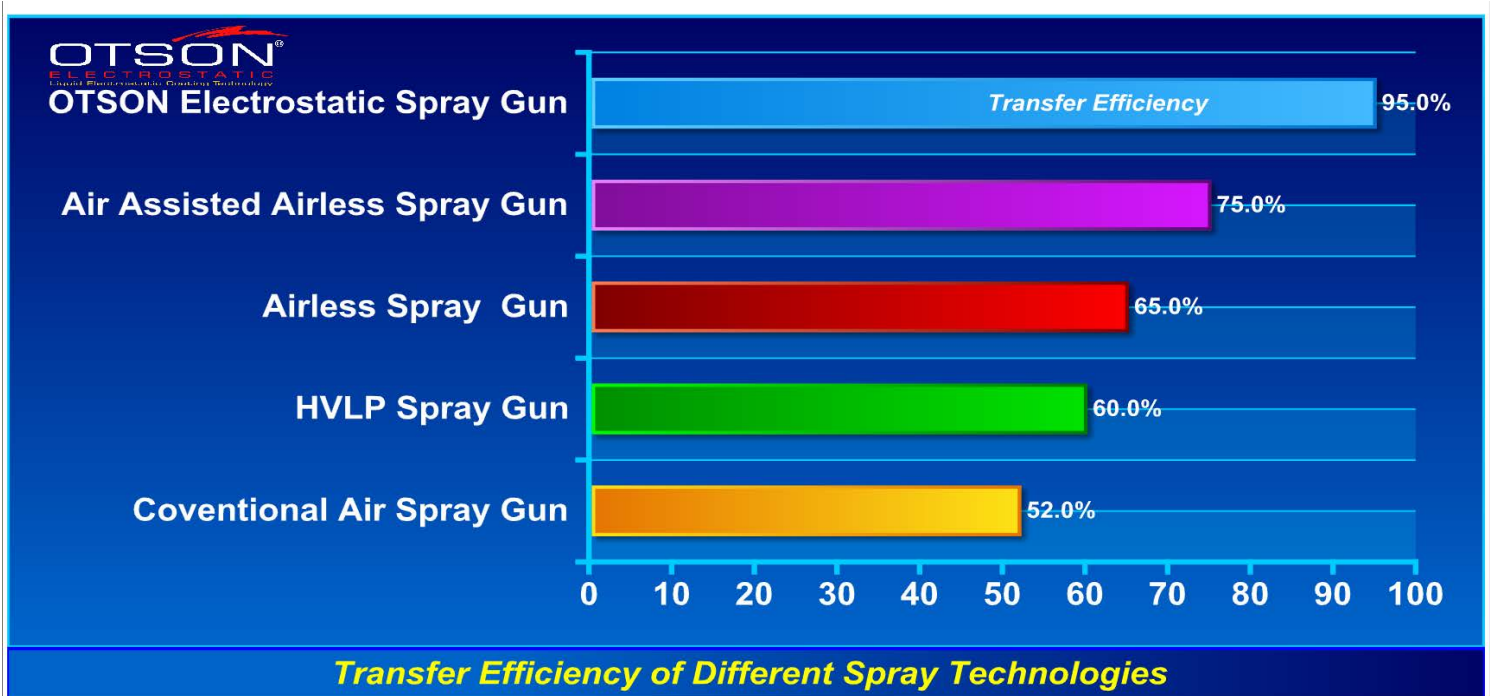


The **OTS-3000+G7 Manual Liquid Electrostatic Spray Gun** from OTSON comes with a set of standard accessories, including an air regulating valve, an electrostatic power supply, and a round (TIN) nozzle. An additional set is available as an option, and includes a round (FRP) and flat (FRP) nozzle.

When combined with a paint tank, double diaphragm pump, paint filter, paint stabilizing valve, air dryer, and air compressor, the OTS-3000+G7 forms a complete set of manual liquid electrostatic spraying equipment. This equipment enhances finishing quality and transfer efficiency.



OTS-3000+ Manual Liquid Electrostatic Spray System

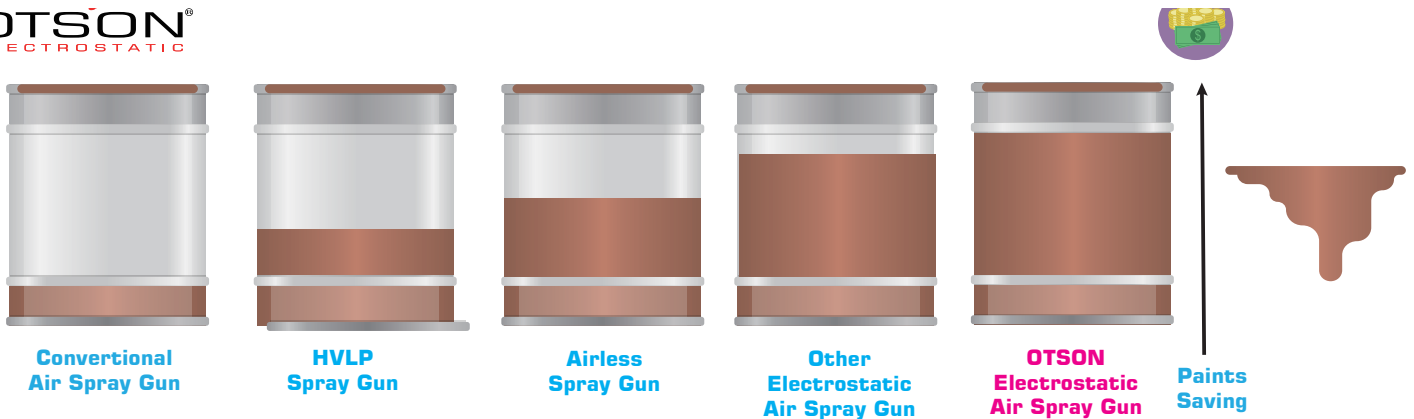


Benefits of Electrostatic Spray Technology

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



Reduce Paints Costs



Return-on-Investment (ROI)

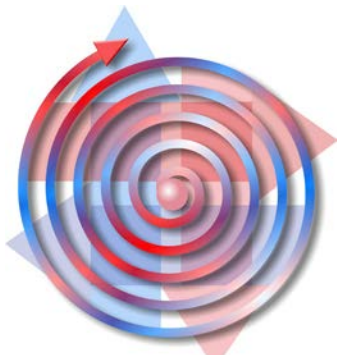
By replacing Conventional Air Spray gun with Auto Electrostatic Spray Bell System

	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	

Features

HYBRID

- Dual Coating- *Solvent and Waterborne Paint*
- Improve Finishing Quality
- Reduce Air and Water Pollutions
- High Transfer Efficiency - *Spray Painting*
- High Atomized Nozzle
- Easy Handle for Long Term Operation
- Long Life Operation
- Low VOC Emissions
- Low Failure Rate and Easy Maintenance
- Light Weight Gun- *470g Only*



The Spray Direction of High Atomized Nozzle



Round Tin Nozzle(K)



Round (FRP) Nozzle



Flat (FRP) Nozzle

New Round Nozzles - All in One



1

Small Spray
Round Pattern



2

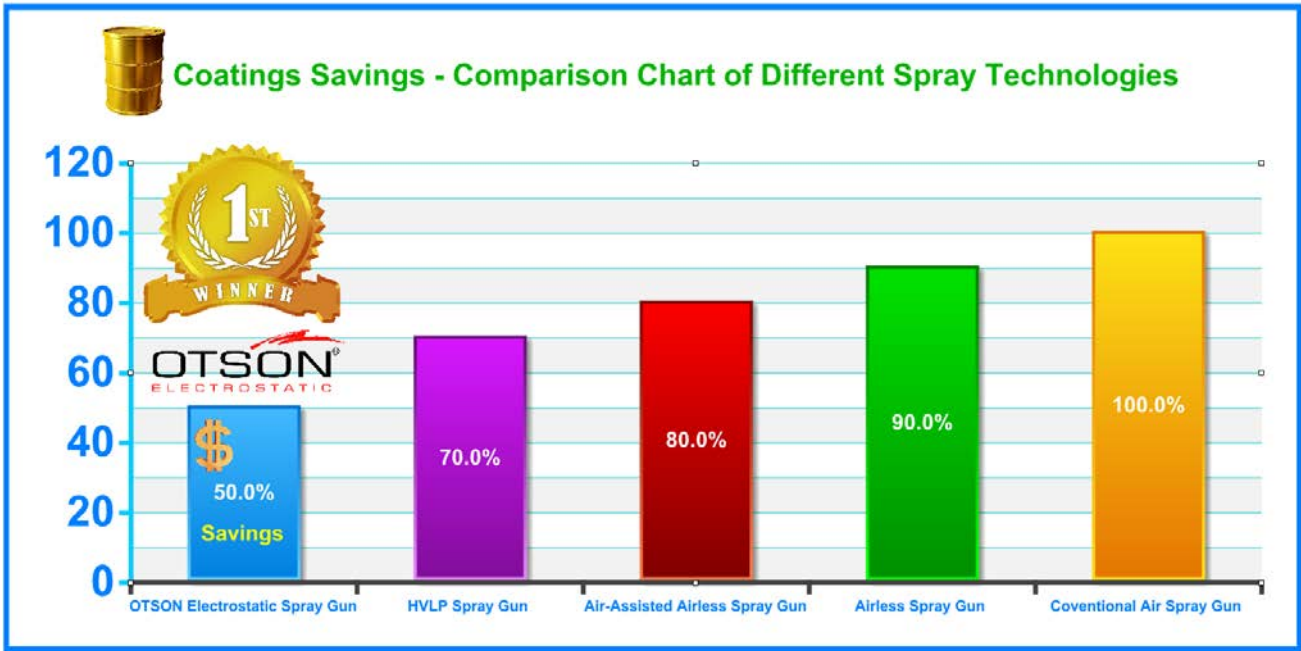
Medium Spray
Round Pattern



3

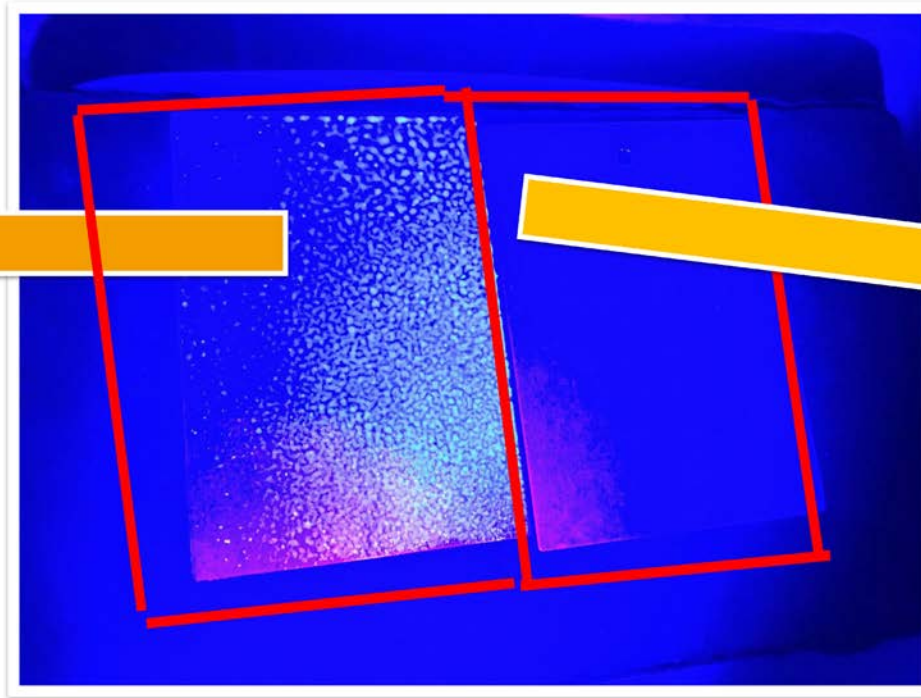
Large Spray
Round Pattern





Dual Coating for Solvent and Waterborne Paints





No uniform spray
by other
conventional
sprayer

Uniform spray by
OTSON
electrostatic
spray
technologies

Conventional spray guns charge liquid droplets only by the movement of the liquid through the nozzle, which produces a negligible charge. The OTSON OTS-3000+G7 Manual Liquid Electrostatic Spray Gun, on the other hand, applies an electric charge to the droplets as they are ejected from the nozzle, using a high voltage to charge the paint or coating material.

This electrostatic effect causes the charged particles to be attracted to an earthed object, such as a car body or a piece of furniture. This results in a more efficient, precise, and consistent application of paint or coating material. The electrostatic attraction overcomes the natural tendency of the droplets to disperse or deflect, resulting in a highly controlled, even application.

Uniform Coating Quality



The electrostatic effect also reduces overspray and bounce-back, which reduces waste and cleanup time. Overall, the electrostatic effect of the **OTSON OTS-3000+G7 Manual Liquid Electrostatic Spray Gun** produces a high-quality finish.

Additional benefits of using the **OTSON OTS-3000+G7 Manual Liquid Electrostatic Spray Gun**:

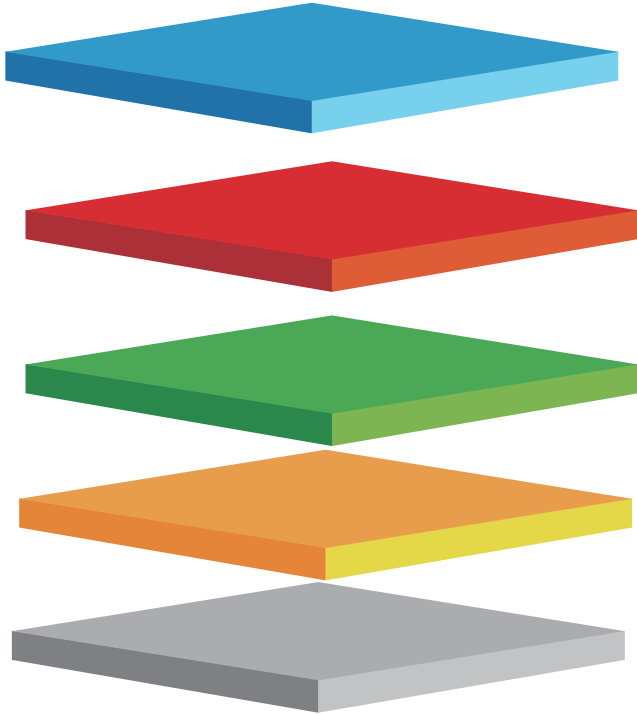
- Can be used to apply paint or coating material to a wider variety of surfaces, including those that are difficult to reach with a conventional spray gun.
- Can be used to apply paint or coating material in a more environmentally friendly way, as it reduces the amount of overspray and waste.
- Can be used to apply paint or coating material more quickly and efficiently, which can save time and money.

If you are looking for a more efficient, precise, and consistent way to apply paint or coating material, then the OTSON OTS-3000+G7 Manual Liquid Electrostatic Spray Gun is a good option to consider.



Different coatings thicknesses by OTSON Electrostatic Spray System

OTSON™ Pretreatment and coating process of metal parts in the metal industry
ELECTROSTATIC



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:

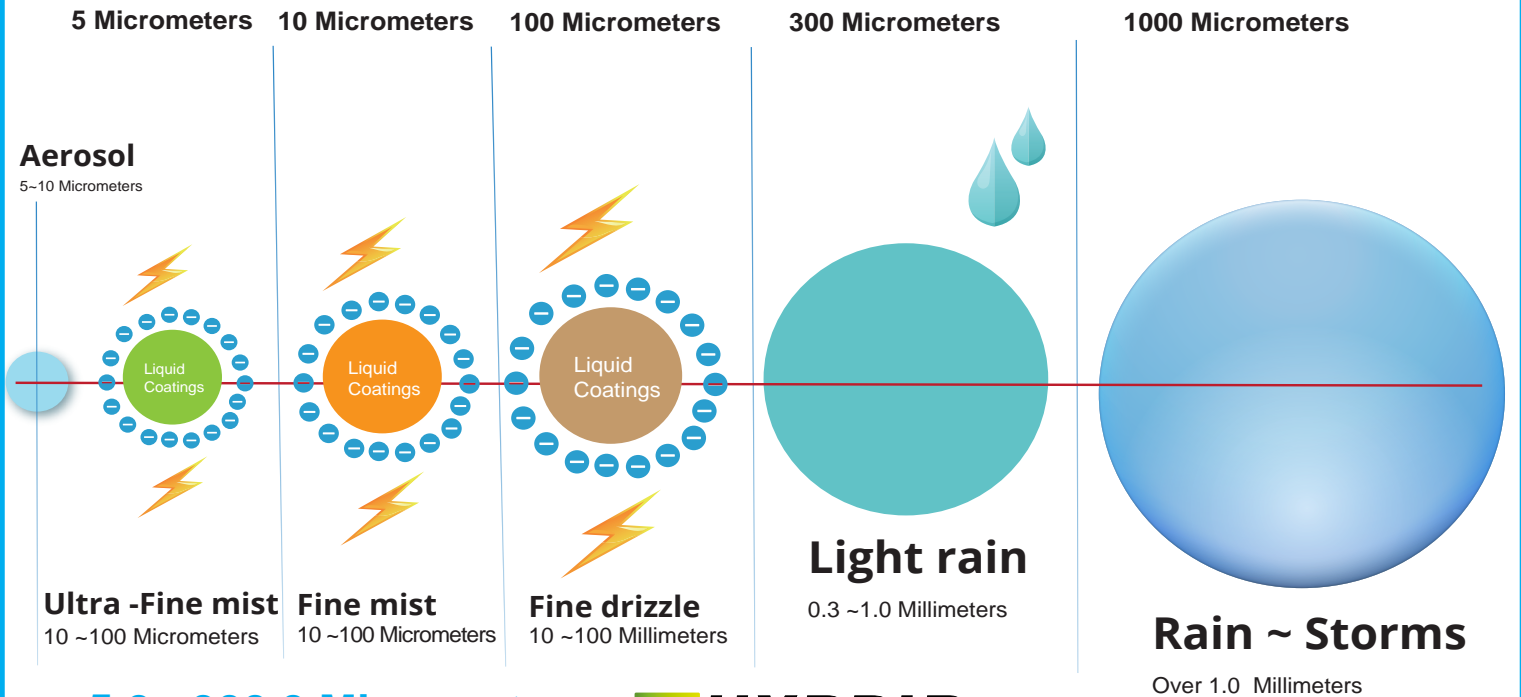
Primer Coating: A thin layer of primer coating is applied to the metal surface to improve adhesion and provide corrosion resistance. The typical thickness of primer coating is around 10-20 microns. The primer coating is cured in an oven at a temperature of around 120-150°C for 20-30 minutes.

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

Classification of Electrostatic Spray Droplet / Particle Size



5.0~ 300.0 Micrometers **HYBRID**

Waterbase Coatings

Solvent Coatings

OTS-3000
Manual Electrostatic Spray Gun



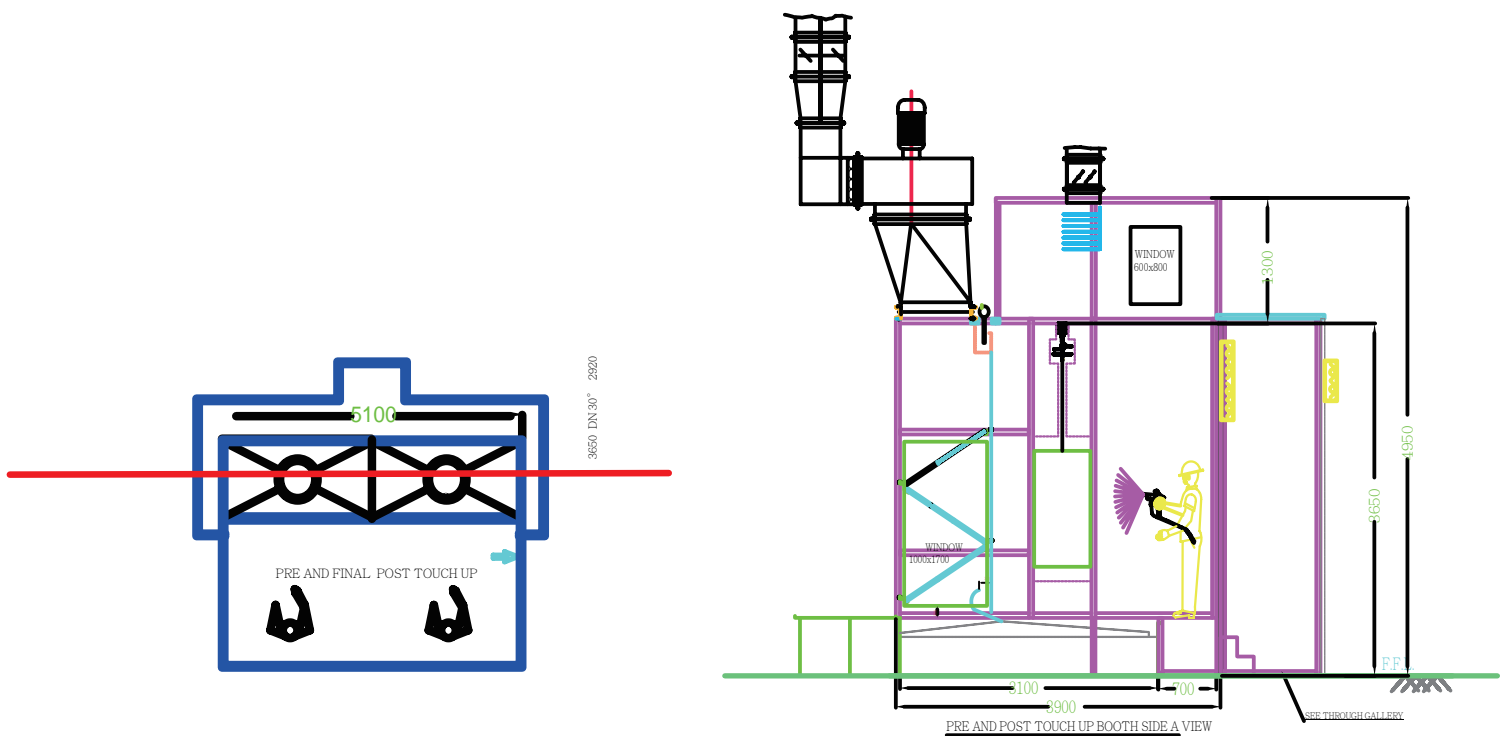
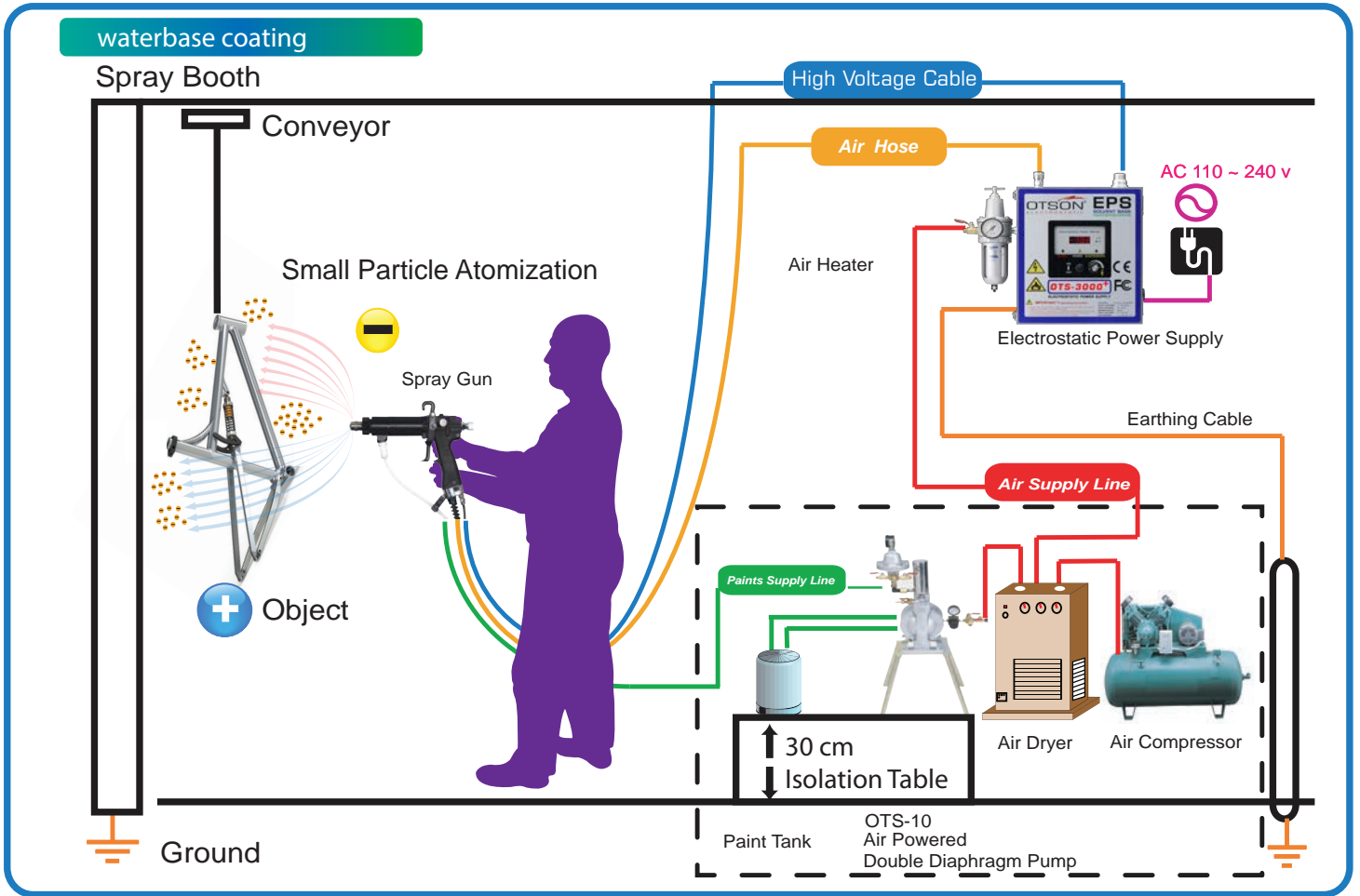
OTSON is a leading manufacturer of liquid electrostatic spray systems. We offer innovative solutions for a variety of painting and coating applications, using advanced technology to deliver a highly charged spray of paint or coating material, resulting in a more efficient and high-quality finish.

With over 40 years of experience in the industry, we are committed to developing and improving our electrostatic spray system technology to meet the changing needs of our customers. Our products are designed with the latest features, including adjustable fluid flow and pressure, to provide a consistent and controlled application process.

The electrostatic effect of our spray systems ensures a higher transfer efficiency and reduces over-spray, which not only saves paint and coating material but also makes the process more environmentally friendly. Additionally, the uniform deposition of the material ensures a high-quality and consistent finish every time.

We take pride in our reliable and durable spray systems, which are easy to clean and maintain. Our customer service team is always available to answer any questions and provide support to our customers.

Whether you are in the automotive, aerospace, or furniture industry, OTSON has the right electrostatic spray system solution for you. Trust us to provide the technology and expertise you need to achieve the perfect finish for your product.

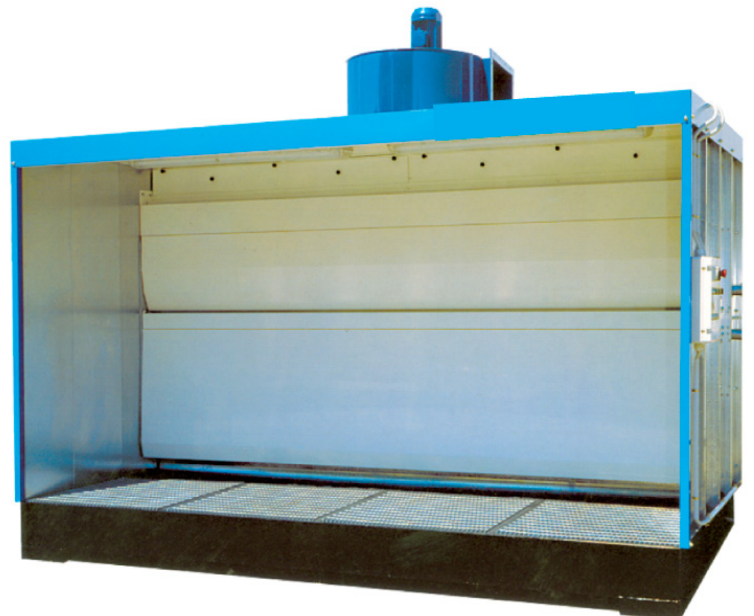




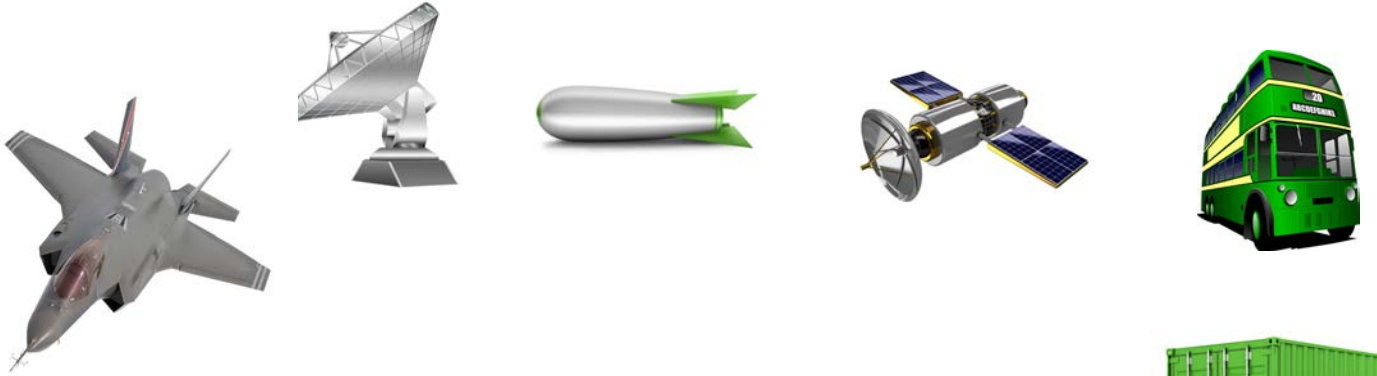
Dry Spray Booth



Water Curtin Spray Booth



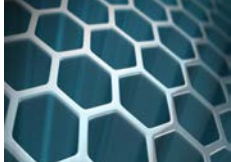
Application - Industry



Meeting the requirements of each industry....



OTS - 3000+
Manual Liquid Electrostatic Spray Gun



Metallic Spray Painting



Waterborne Spray Painting





Home Theater Speaker Mesh Cover



Windows Fences



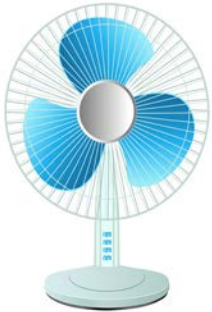
Air Compressor Tank



Wood Chair



Application - Spray Range



.....With the widest industrial spray range



OTS - 3000+
Manual Liquid Electrostatic Spray Gun



Specification

Liquid Electrostatic Spray Gun

Input Voltage	0~70KV DC(-)
Gun Length	225 mm
Gun Weight *(no nozzle , hv cable ,spraying tube and air tube)	470 g
Fluid and Air Pressure	0 ~ 7 kg/cm ² (6.86 bar) (0~100) psi
Operating Pressure	Air Supply
Coatings	Solvent-base & Waterborne Coatings



Electrostatic Power Supply

Out Voltage	0~70KV DC(-)
Out Current	50 microamperes
Input Voltage	110 V~240 V AC (50/60 Hz)
Intercepting current	20~150 microamperes
Weight	12 kg
Dimensions	300(L)x120(W)x350(H) mm



Round (TIN) Nozzle - K type

Gauge :	12 mm
Atomization air pressure :	4 ~ 6 Bar
Flow Rate :	20 ~ 300 ml/min
Fan pattern width :	40 ~150 mm
Air :	180 NI / min



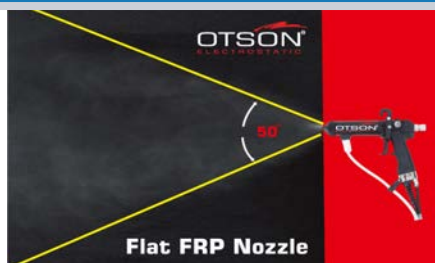
Round (FRP) Nozzle

Gauge :	12 mm
Atomization air pressure :	4 ~ 6 Bar
Flow Rate :	50 ~ 300 ml/min
Fan pattern width :	160 mm
Air :	180 NI / min



Flat (FRP) Nozzle

Gauge :	3 mm
Atomization air pressure :	4 ~ 6 Bar
Flow Rate :	100 ~ 400 ml/min
Fan pattern width :	300 mm
Air :	180 NI / min



Support Equipment

OTS-10

AIR
POWERED DOUBLE DIAPHRAGM PUMP



OTS-3-B Paint Resistivity Meter



Insulation Box for water based paints



Big Type A



Small Type B



Adjustable Electrostatic (0 ~ 70 KV) (-) DC



Air Filter (Stage 2) for Electrostatic Sprayer

H: 835 mm / 32.87 inch

Electrostatic Spray
⚡ - 0~70KV DC (-)



*High quality Air Compressor

1.5 hp ~ 10 hp
3 ~ 30 Gallons / 11 ~ 111 Liters Tank
100 PSI ~ 175 PSI

Electrostatic Spray Gun

Electrostatic Power Supply

Air Powered Double Diaphragm Pump

High-strength Handcart



*Paint Tank (20 liters / 5.28 Gallons)

*Air Filter (Stage 1) for Air Compressor

L: 1200 mm / 47.24 inch

Transformer

Polypropylene Dolly- Max 200 kg / 400 lb Capacity x 2 pcs

8 x Wheels -Easy Move

W: 405 mm / 15.94 inch

Solvent

Waterborne

DUAL
Coating

H.E.T
High Efficiency Technology

OTS-3000-G7

Liquid Electrostatic Spray Gun


Note: OTSON does not offer an air compressor, paint tank, and stage 1 air filter, the customer can buy from the local distributor or online store. It will help the customer get secure service and spare parts of air compressor and filter.

OTS-3000-G7

Liquid Electrostatic Spray Gun

H: 835 mm / 32.87 inch

Air Filter (Stage 2) for Electrostatic Sprayer

Electrostatic Sprayer
 **0~70KV DC (-)**



Electrostatic Spray Gun

Electrostatic Power Supply

Air Powered Double Diaphragm Pump

High-strength Handcart

*Paint Tank (20 liters / 5.28 Gallons)

*Air Filter (Stage 1) for Air Compressor

*High quality Air Compressor

1.5 hp ~ 10 hp
 3 ~ 30 Gallons / 11 ~ 111 Liters Tank
 100 PSI ~ 175 PSI

L: 600 mm / 23.62 inch

Transformer
 Polypropylene Dolly- Max 200 kg / 400 lb Capacity x 2 pcs



W: 910 mm / 35.82 inch

8 x Wheels -Easy Move

Note: OTSON does not offer an air compressor, disinfection tank, and stage 1 air filter, the customer can buy from the local distributor or online store. It will help the customer get secure service and spare parts of air compressor and filter.



Ordering Information

OTS-3000+ G7 Manual Liquid Electrostatic Spray Gun

Model	Manual Spray Gun (70kv)	Electrostatic Power Supply (70kv)	Ground Rod (K) Nozzle	Round FRP Nozzle	Flat FRP Nozzle	H.V Cable (5.0 m - 70kv) Teflon Spraying Tube (6.0 m) PU Air Tube (5.0 m)	H.V Cable (6.5 m - 70kv) Teflon Spraying Tube (7.5 m) PU Air Tube (6.5 m)	H.V Cable (10.0 m - 70kv) Teflon Spraying Tube (11.0 m) PU Air Tube (10.0 m)	Tool box
OTS-3000+G7-SF	⊙	⊙		⊙		⊙			⊙
OTS-3000+G7-SF-A	⊙	⊙		⊙			⊙		⊙
OTS-3000+G7-SF-B	⊙	⊙		⊙				⊙	⊙
OTS-3000+G7-SL	⊙	⊙			⊙	⊙			⊙
OTS-3000+G7-SL-A	⊙	⊙			⊙		⊙		⊙
OTS-3000+G7-SL-B	⊙	⊙			⊙			⊙	⊙
OTS-3000+G7-STK	⊙	⊙	⊙			⊙			⊙
OTS-3000+G7-STK-A	⊙	⊙	⊙				⊙		⊙
OTS-3000+G7-STK-B	⊙	⊙	⊙					⊙	⊙

Accessories

3000AF	Round (FRP) Nozzle
3000ATK	Round (TIN) Nozzle -K
3000AL	Flat (FRP) Nozzle
OTS-14-B	Isolation Box for water base coating
OTS-14-A	Isolation Box for water base coating
OTS-7	Electrostatic Power Meter (digital version)
OTS-3-B	Conductivity Meter (digital version)
OTS-5	Ground Rod

Options HV Cable ,Teflon Spraying Tube and Air Tube Lengths : 15m, 20m, 25m, 30m, 35m and 40m

Round (FRP) Nozzle	Round (TIN) Nozzle -K	Flat (FRP) Nozzle
		
Part No : 3000AF	Part No : 3000ATK	Part No : 3000AL



ATEX



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

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