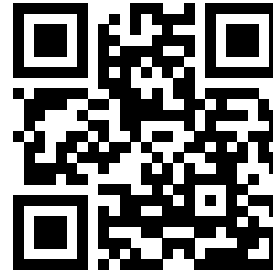




OTS-3000⁺



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

Innovative Technologies of

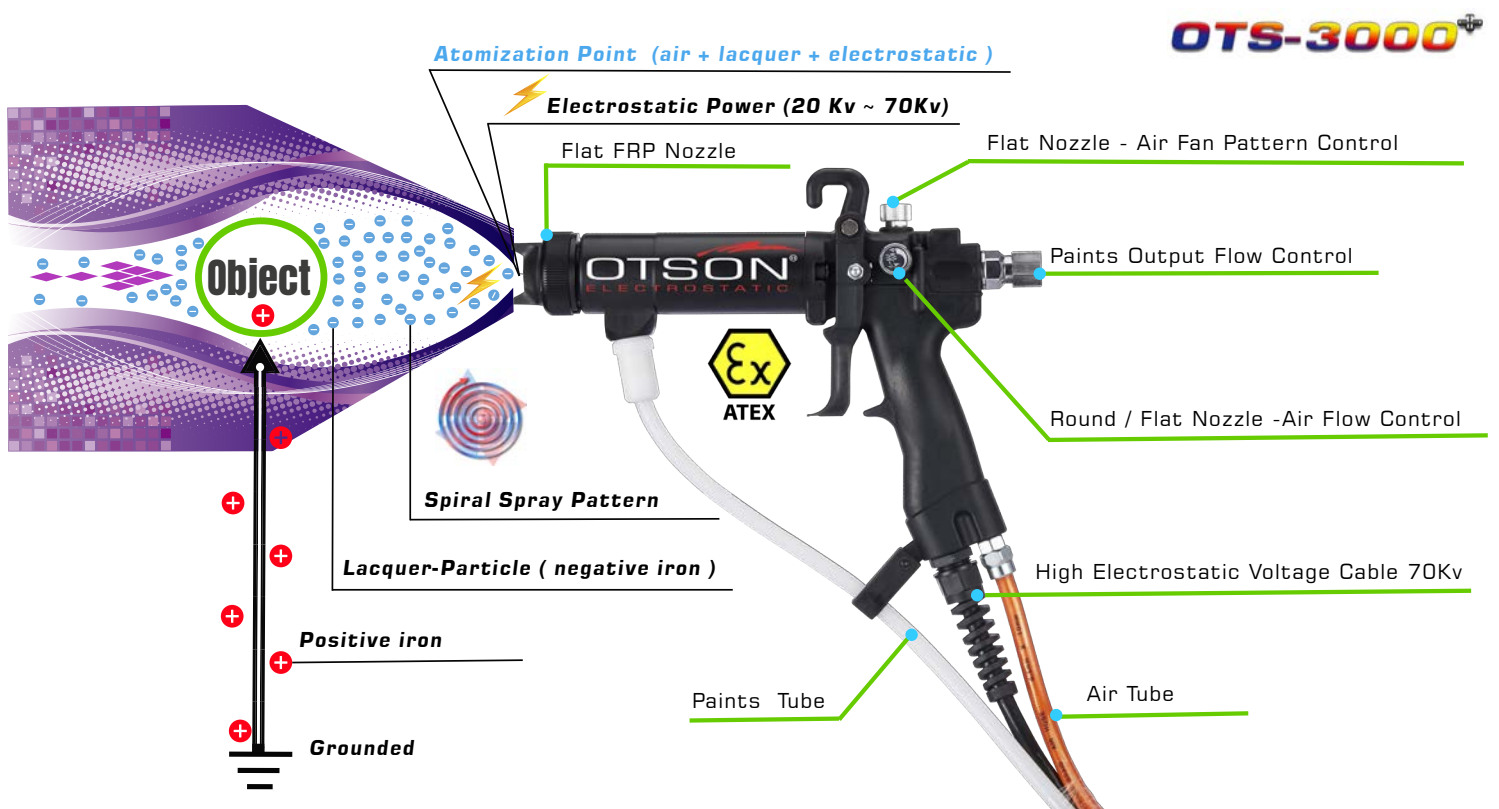
Liquid Electrostatic Coating Solutions

Overview

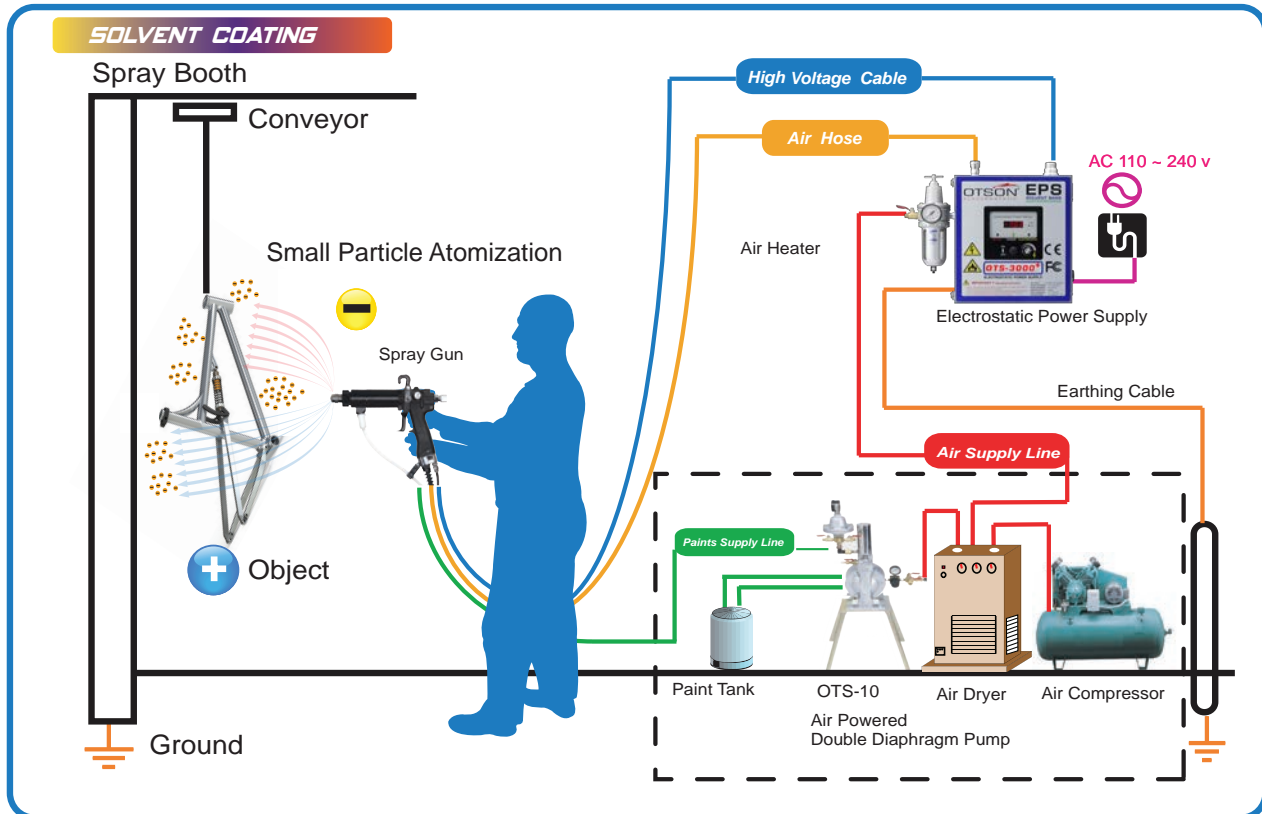
Manual liquid electrostatic spray guns, just like conventional spraying equipment, rely on air or high-pressure to atomize the lacquer. The particles of lacquer are then charged as they exit the nozzle. Different air nozzles cap and material, which create different spiral spray pattern, are available for OTSON liquid electrostatic spray guns.

These spiral effect reduces lacquer-particle velocity. Therefore the lacquer will be atomized. The technique involves applying a charge, usually negative, to the coating material as it is atomised. The negatively charged spray droplets are attracted to any earthed surface; if the workpiece is earthed, the negatively charged droplets are attracted preferentially to it.

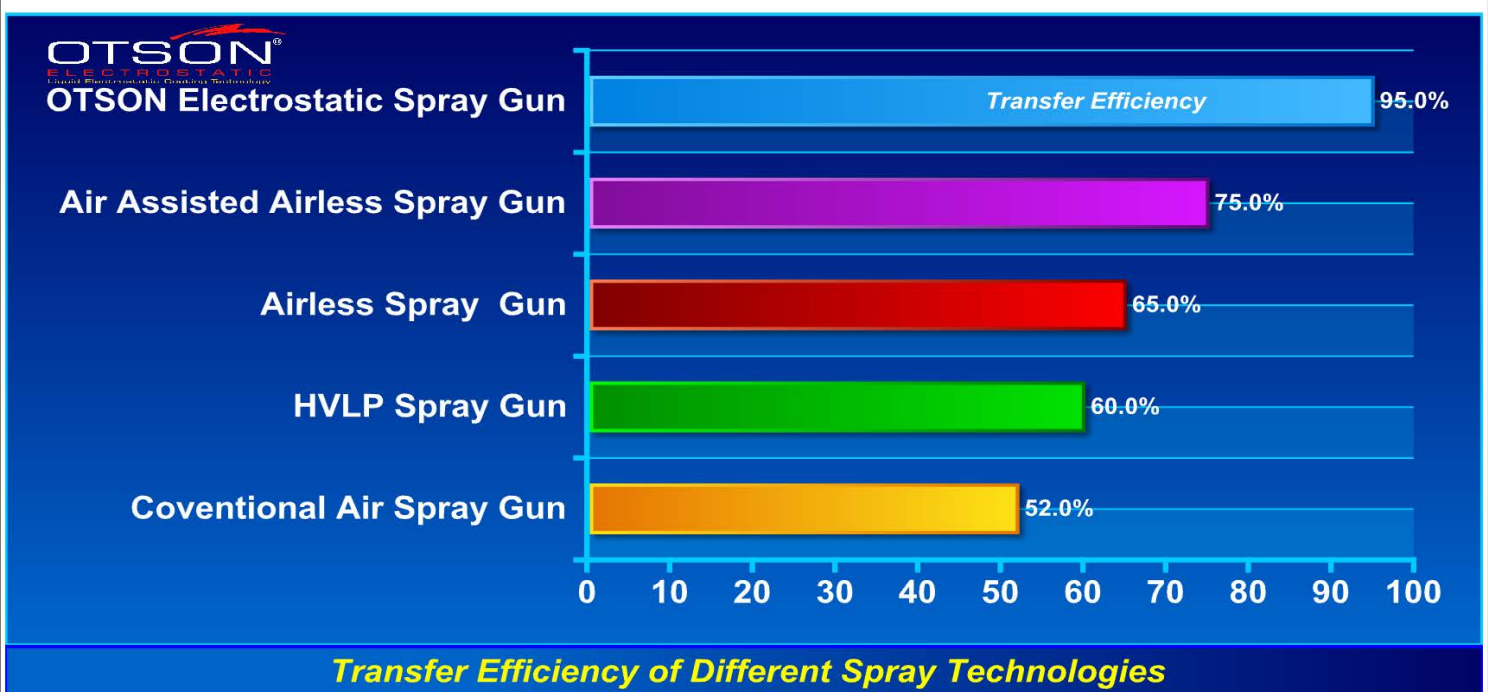
This effect is so powerful that, with some objects, coating spray can be observed to 'wrap around'. In this way, the purpose of the electrostatic coating is achieved which can offer transfer efficiency up to 95% and minimize the over spraying phenomenon obviously. OTSON is keeping researchs and developments in electrostatic equipment in last 40 years, the technologies of OTSON electrostatic can now also be used for waterborne paints ,solvent paints and lacquers.



OTS - 3000+ Manual Liquid Electrostatic Spray Gun contains the required standard equipment such as an air regulating valve, electrostatic power supply, electrostatic spray gun and Round (TIN) nozzle, one set each (Round (FRP) and Flat (FRP) nozzle are available for the customer's option). The above-said electrostatic spray gun in conjunction with the paints tank, double diaphragm pump, paint filter, paint stabilizing valve, air dryer and air compressor forms one complete set of manual liquid electrostatic spraying equipment for improving finishing quality and transfer efficiency.



OTS-3000+ Manual Liquid Electrostatic Spray System



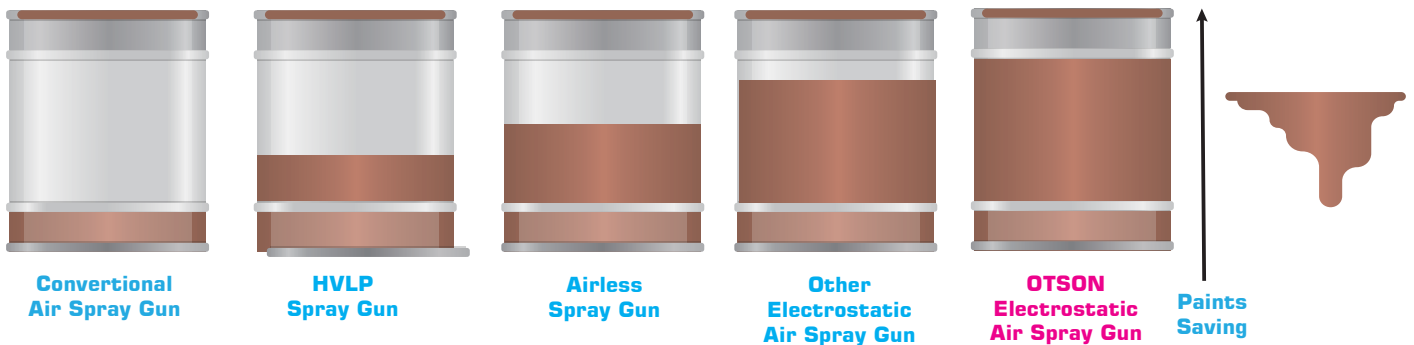
Benefits of Electrostatic Spray Technology

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



Reduce Paints Costs

OTSON
ELECTROSTATIC



Return-on-Investment (ROI)

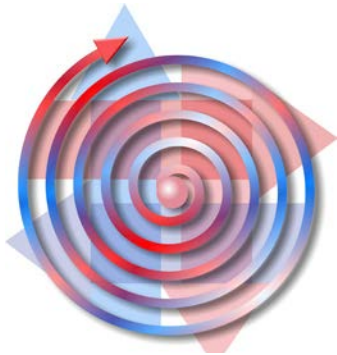
By replacing Conventional Air Spray gun with Auto Electrostatic Spray Bell System

	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 Tin Nozzle(P)



Round (FRP) Nozzle



Flat (FRP) Nozzle

New Round Nozzles - All in One



1

**Small Spray
Round Pattern**



2

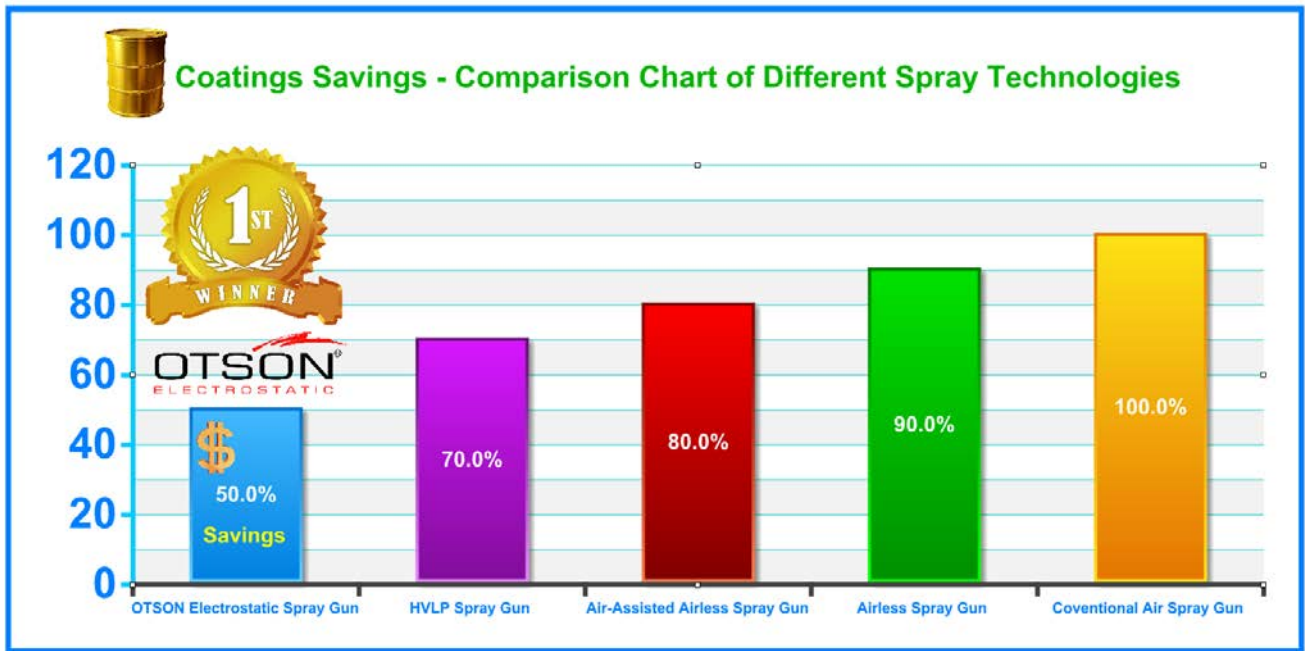
**Medium Spray
Round Pattern**



3

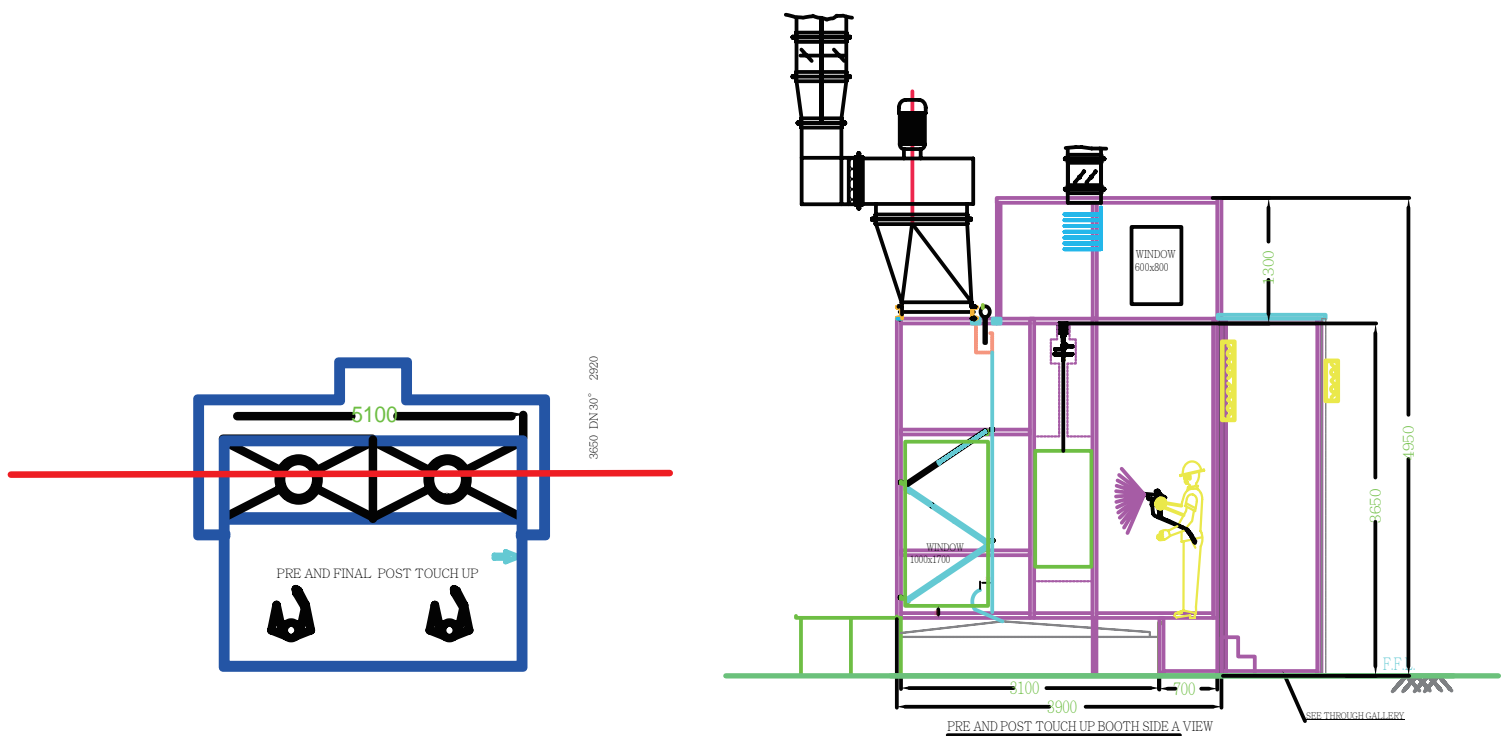
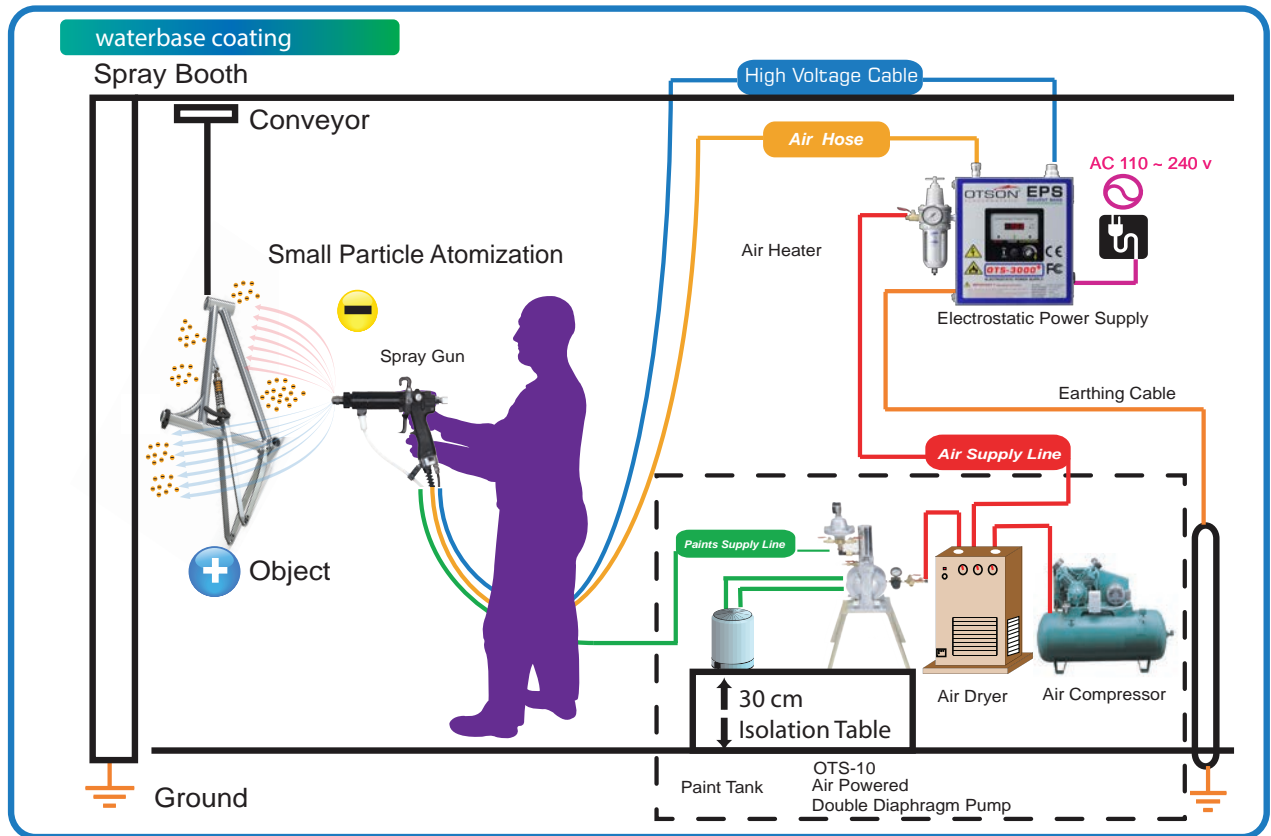
**Large Spray
Round Pattern**





Dual Coating for Solvent and Waterborne Paints







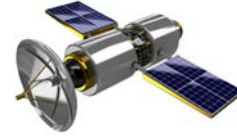
Dry Spray Booth



Water Curtin Spray Booth



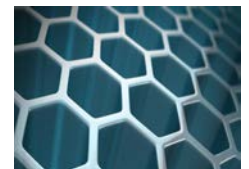
Application - Industry



*Meeting the requirements
of each industry....*



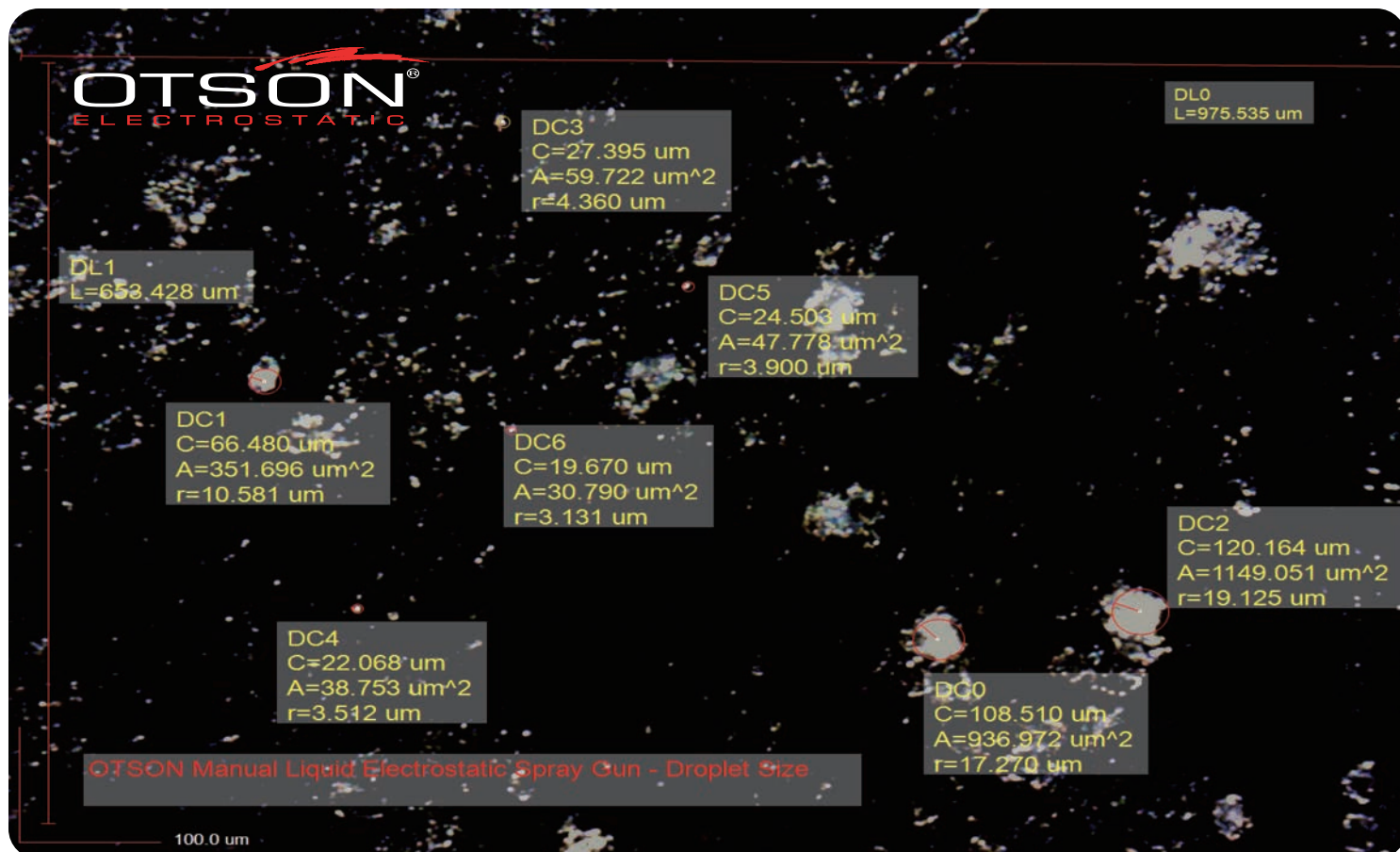
OTS - 3000+
Manual Liquid Electrostatic Spray Gun

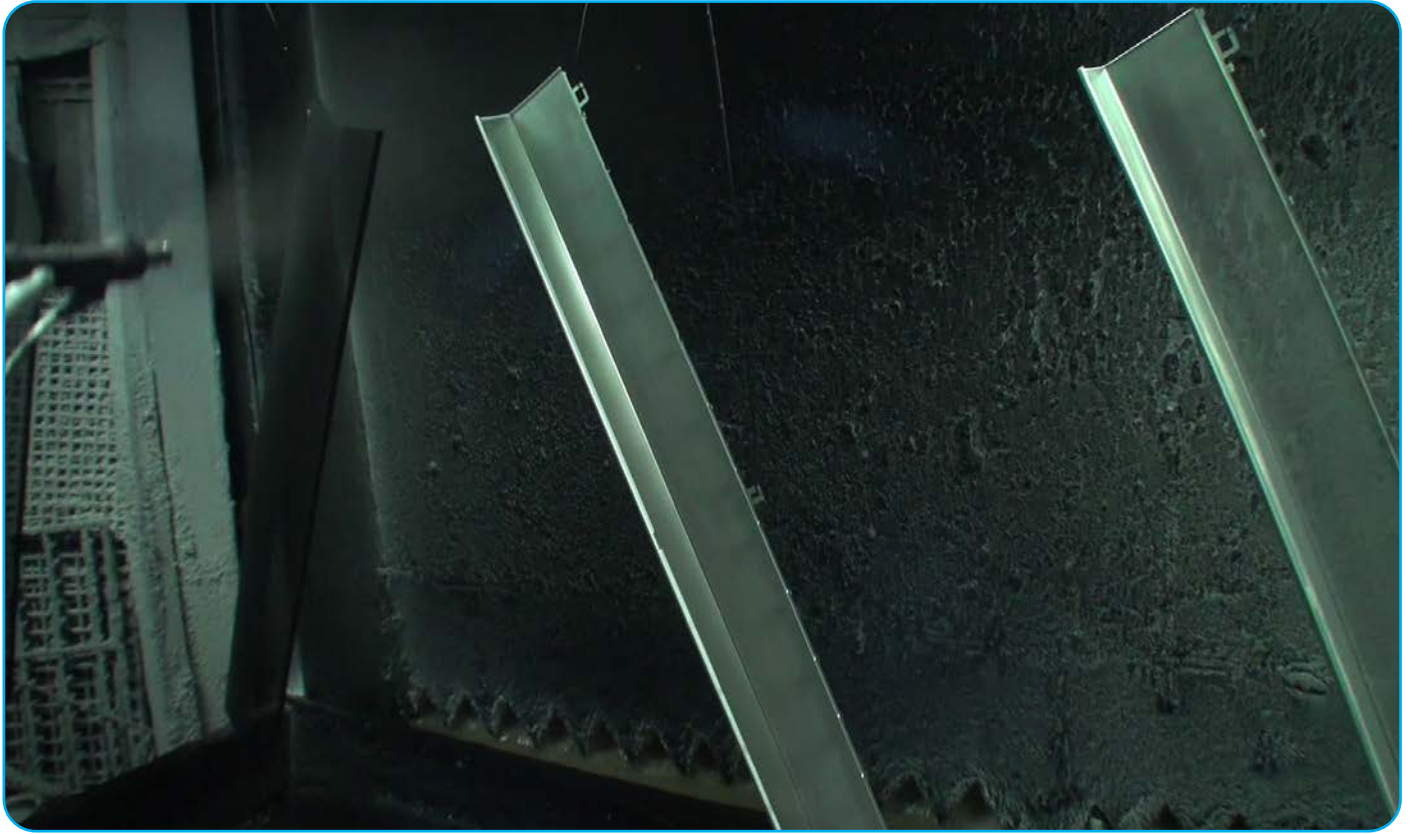


Metallic Spray Painting



Waterborne Spray Painting





Home Theater Speaker Mesh Cover



Windows Fences



Air Compressor Tank



Wood Chair



Application - Spray Range



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



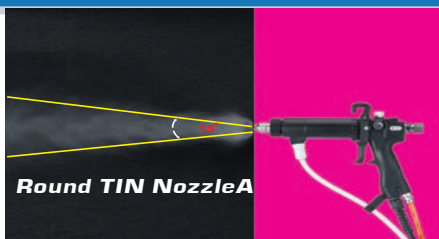
Electrostatic Power Supply

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 (TIN) Nozzle - P type

Gauge :	22 mm
Atomization air pressure :	4 ~ 6 Bar
Flow Rate :	20 ~ 300 ml/min
Fan pattern width :	70 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



Insulation Box for water based paints



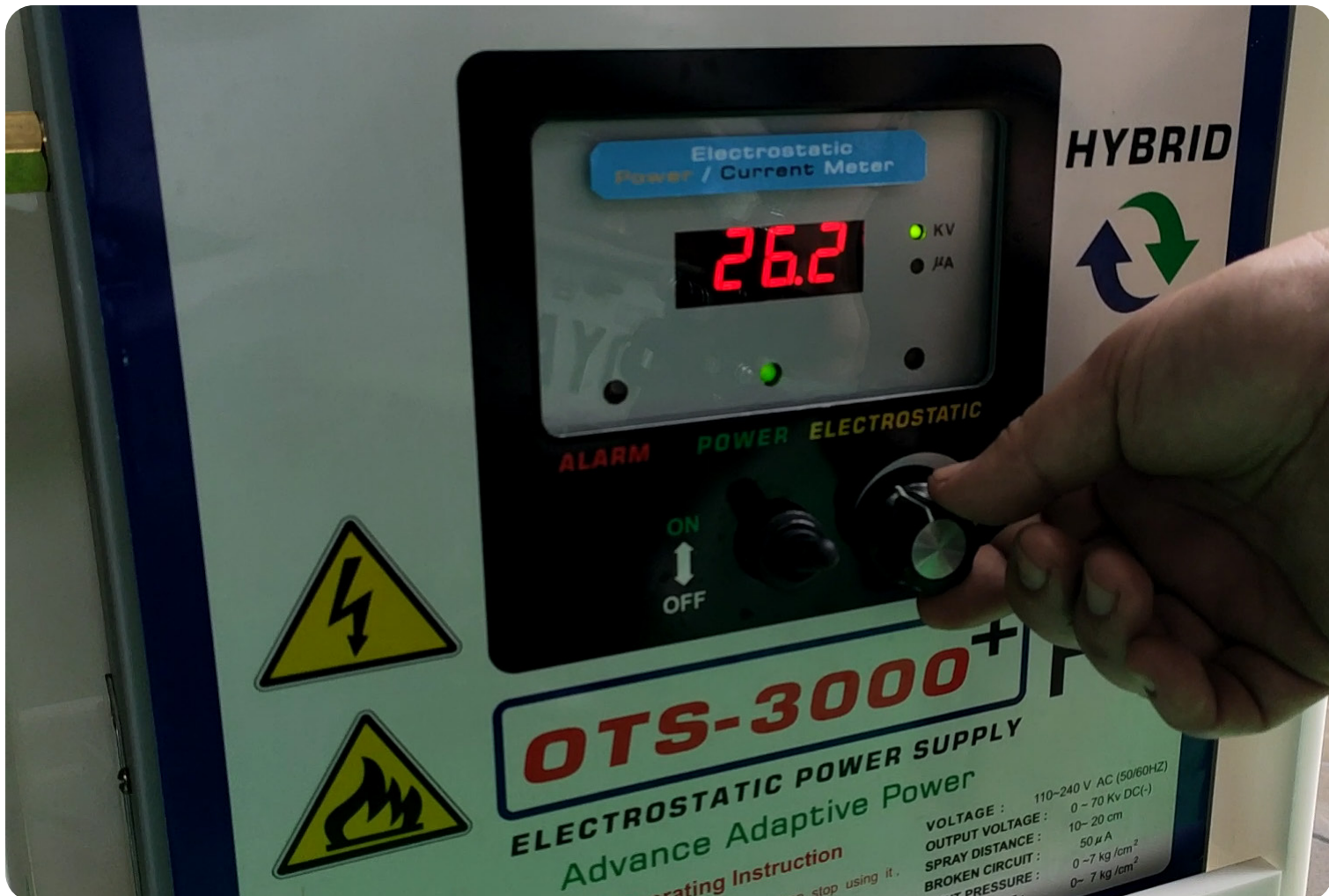
Big Type A



Small Type B



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



OTSON
ELECTROSTATIC

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

Air Filter (Stage 2) for Electrostatic Sprayer

H: 835 mm / 32.87 inch

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.

OTSON
ELECTROSTATIC

OTS-3000⁺ G7

Solvent

Waterborne

DUAL
Coating

H.E.T
High Efficiency Technology

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	Round TIN (K) Nozzle	Round TIN (P) 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
Standard										
OTS-3000+G7-SF	⊙	⊙			⊙		⊙			⊙
OTS-3000+G7-SF-A	⊙	⊙			⊙			⊙		⊙
OTS-3000+G7-SF-B	⊙	⊙			⊙				⊙	⊙
OTS-3000+G7-STP	⊙	⊙		⊙			⊙			⊙
OTS-3000+G7-STP-A	⊙	⊙		⊙				⊙		⊙
OTS-3000+G7-STP-B	⊙	⊙		⊙					⊙	⊙
OTS-3000+G7-STK	⊙	⊙	⊙				⊙			⊙
OTS-3000+G7-STK-A	⊙	⊙	⊙					⊙		⊙
OTS-3000+G7-STK-B	⊙	⊙	⊙						⊙	⊙
OTS-3000+G7-SL	⊙	⊙				⊙	⊙			⊙
OTS-3000+G7-SL-A	⊙	⊙				⊙		⊙		⊙
OTS-3000+G7-SL-B	⊙	⊙				⊙			⊙	⊙
Accessories										
OTS-14-B	Isolation Box for water base coating									
OTS-14-A	Isolation Box for water base coating									
OTS-12	Air Powered Double Diaphragm Pump 1/2"									
OTS-10	Air Powered Double Diaphragm Pump 3/8"									
OTS-7	Electrostatic Power Meter									
OTS-3	Conductivity Meter									
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	Round (TIN)Nozzle -P	Flat (FRP)Nozzle
			
Part No : 3000AF	Part No : 3000ATK	Part No : 3000ATP	Part No : 3000AL

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

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