



PROCESS SOLUTIONS YOU CAN COUNT ON

AP-3P

SELECTIVE ATMOSPHERIC PLASMA TREATMENT SYSTEM

Features & Benefits

- Integrated sheet metal frame
- The high speed and efficient system can achieve higher productivity
- PLC and touch screen, alarm with sound and light, and menu display
- Online teaching program mode

Product Description

Atmospheric plasma treatment is a unique technology for surface treatment in electronic assembly: nano-cleaning, removal of organic contaminants, surface activation / modification, surface ablation and etching, hydrophiling, passivation, hydrophobing, biocompatibility, and plasma coating of almost all materials: composites, plastics, metals, glass, cardboard, textiles, etc.

Plasma treatment removes contaminants while providing surface modification which facilitates adhesion of various coating and/or adhesive materials. Additionally, plasma surface treatment promotes the flow of coating for thin film coating without other mechanical or chemical treatments required.

Applications: treatment of PCBs prior to conformal coating; front cover and rear cover of mobile phone; automobile curved glass; laptop case painting; precision hardware, etc.

AP-3P Series can be accommodated dual nozzles top and bottom, operated simultaneously and inline with fluid dispensing or selective conformal coating for achieving maximum productivity.



Rotary Nozzle, Atmospheric Plasma Treatment



Taper Nozzle, Atmospheric Plasma Treatment

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Specifications:

System Specifications

AP-460 Atmospheric Plasma Treatment System

Handling	
Effective Work Area	L 450 x W 450 mm (L 17.72" x W 17.72")
Cleanance Height	3 – 15 mm (0.12" – 0.59")
RF Power	
Standard Wattage	500 W / 1000 W / 300 – 620 W
Frequency	20 – 25 KHz
Transmission system	
Process Flow	L to R (Standard); R to L (Optional)
Conveyor Type	Chain
Conveyor Height	900 ± 20 mm (35.43" ± 0.79")
Conveyor Speed (XY)	2 – 5 m/min
Convery Width Adjustment	Manual
XYZ Axis Configuration	
Motor	XYZ stepping motor with belt
Spray Nozzle	See nozzle options (Right)
Max. Movement Speed	400 mm/s
Working Speed	50 – 100 mm/s (Typical)
Effective Operating Height	3 – 15 mm (0.12" - 0.59")
Repeated Accuracy	± 0.2 mm (± 0.007")
Nitrogen Generator	Optional
Facility	
Standard Footprint	L 1000 x D 1060 x H 1654 mm (L 39.37" x D 41.73" x H 65.12")
Weight	350 kg
Motor Power	DC 24 V 69 W x 2
Air Source	0.4 Mpa
Extraction	5 m ³ /min
Input Power	AC 220 V 50/60 Hz 1P
Interface	
Control Mode	IPC and motion control card with Windows OS
Communications Protocol	SMEMA

Standard Features

- IPC computer control, fault and light alarm and menu display
- Online rail transport system which can be connected with the front and rear equipment
- Rotation or jet nozzle
- Online programming
- UPS and voltage stabilizer
- ESD grounding point
- CE compliant

Optional Features

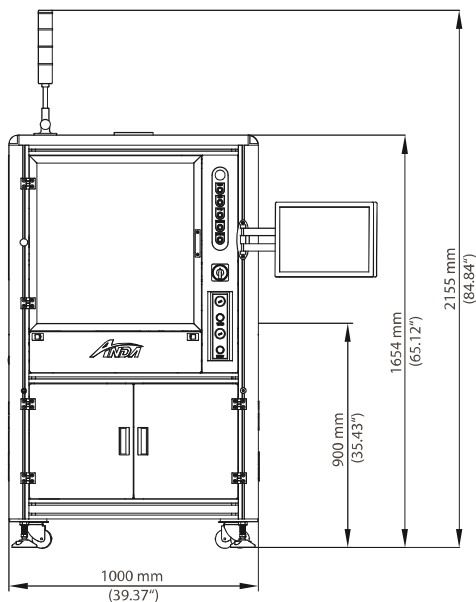
- Heavy duty conveyor
- Dual lane conveyor system
- 2 stage conveyor
- CCD vision camera
- Pallet return conveyor (underneath)
- Barcode or 2D code scanning system

Nozzle Options

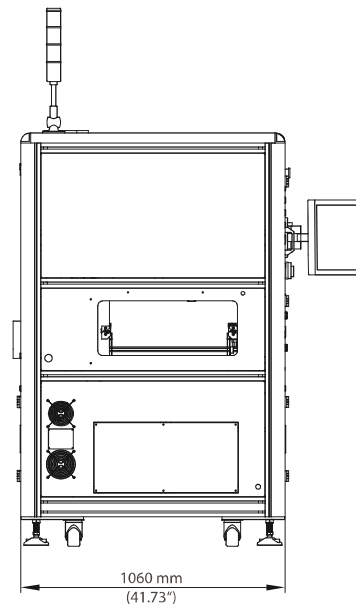
Taper Nozzles:



Rotary Nozzles:



Front View



Side View