PROCESS SOLUTIONS YOU CAN COUNT ON

AP-460

ATMOSPHERIC PLASMA TREATMENT SYSTEM

Features & Benefits

- Integrated aluminum frame, exquisite appearance
- The high speed and efficient system can achieve higher productivity
- IPC (industrial personal computer) and motion control card, Windows 7 operating system. 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.

Plasma cleaning: remove dust and grease; fine cleaning and removal of static electricity; improve surface adhesion.

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 × W 450 mm (L 17.72" × 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 × D 1060 × H 1654 mm (L 39.37" × D 41.73" × H 65.12")
Weight	350 kg
Motor Power	DC 24 V 69 W × 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:

AD-SN1
Application of
6 - 8 mm (0.24" - 0.31") Width,
Low Power

AD-SN2
Application of
8 -10 mm (0.31" - 0.39") Width,
Standard Power

AD-SN3
Application of
10-12 mm (0.39" - 0.47") Width,
Standard Power

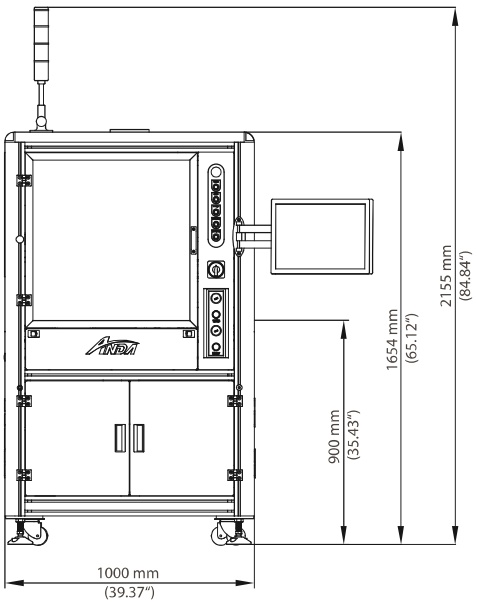
AD-SN4
Application of
4 - 6 mm (0.16" - 0.24") Width,
High Power

Rotary Nozzles:

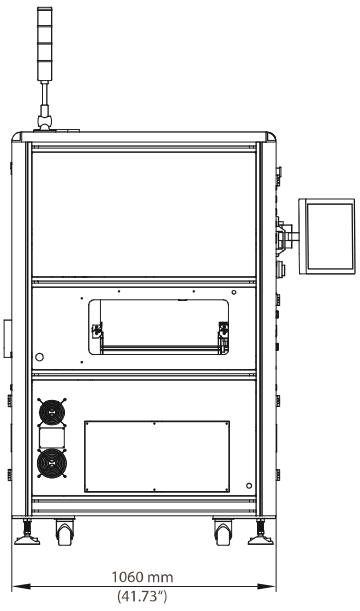
AD-RN40
Application of
25 mm (0.98") Small Width,
Low Electric Power

AD-RN50
Application of
50 mm (1.97") Medium Width

AD-RN-60
Application of
60 mm (2.36") Large Width



Front View



Side View