

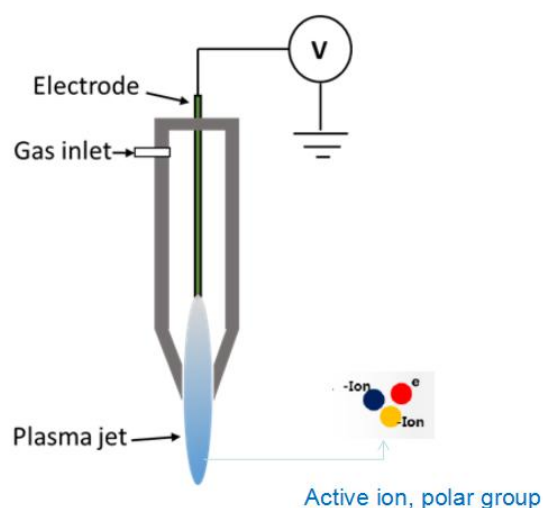
NE-ATR03-AX331

ATMOSPHERIC PLASMA TREATMENT SYSTEM-(ROTARY JET)



NE-ATR03-AX331 PROFILE

The atmospheric plasma cleaning machine is composed of plasma generator, gas conveying system and plasma spray gun. Due to a high voltage discharge an electric arc is generated, the pressurized air passing the electrodes is transferred into the Plasma state, and the plasma is sprayed to the treated surface with the help of the compression space, resulting in the corresponding physical and chemical changes on the treated surface. Through the nozzle the Plasma attains the substrate. To adjust the Plasma intensity, the distance between Plasma nozzle and substrate or the velocity of the movement device could be varied.



The surface of the treated object is cleaned, oil, additives and other ingredients are removed, and surface static electricity is eliminated. At the same time, the surface has been activated, increased adhesion. It is conducive to the product bonding, spraying, printing and sealing, it can be used on different materials, such as glass, metal, plastics, textiles and ceramics.



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NE-ATR03 FEATURES

✧ Easy to install and use

The system must be connected to mains power and compressed air, no adjustment of air or power is necessary.

✧ Compact and Light weight

Compact and light weight makes ATR03 easy to integrate in almost any production line or robot cell.

✧ Potential free discharge

Allows treatment of both conductive, non-conductive as well as semi-conductive surfaces.

✧ High speed production

High power Plasma Discharge allows for high line speeds.

✧ Digital and analogue control signals

A large number of various signals are available on a digital interface to control and monitor the Plasma discharge at all times.

✧ Remote 485 communication

Using I/O communication mode, alarm output signal can control equipment start and stop, and obtain alarm data, seamless docking of any application scenario.

✧ ARM chip

Realize complex human-computer interaction, intelligent judgment and unified processing of data.

NE-ATR03-AX331 SPECIFICATIONS

NO	Item	Specification	remark
Plasma generator			
1	Size(L*W*H)	244mm*474mm*310mm	
2	Weight	25kg	
3	Power supply	220VAC±20% 50-60Hz	
4	output power	1200W(Adjustable) Precise power control, strong stability	Optional
5	Working intake joint	4×6mm Connector	
6	Configuration Space	Store in a well-ventilated place (ambient temperature less than 30℃). Reserve left, right and above the space with more than 150mm heat dissipation, reserve 150mm rear line space	
Plasma gunjet			
1	Size	278mm×58.5mm	
2	Nozzle size	45mm	Optional
3	Weight	5kg	



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4	Distance between power supply and gunjet	3m	
Other specifications:			
1	Effective cleaning range	50mm	
2	Processing speed	10-300mm/sec	
3	Processing distance	5mm-15mm to the object	
4	Control	Digital control Accurately set air pressure and power, reduce interference, strong stability	
5	Data detection	Detection of spray gun speed detection, air pressure, motherboard temperature, transformer arc voltage.	
6	Alarm method	Touch screen&Voice prompt	
XYZ three-axis linear motion module			
1	Plasma gun range	X axis:0-300mm Y axis:0-300mm Z axis:0-100mm	
2	Software + Controller	Full-time three-axis system	
3	maximum load	Z axis 5KG, XY axis 25KG	
4	Maximum working speed	300MM/S	
5	repeated positioning accuracy	0.02MM	
6	motor drive	Shinano	
7	kind of drive	Original silver double guide +Z axis screw	
8	sensor	Omron	
9	input voltage	AC220V	
10	power	360W	
11	external interface	RS232	
12	Dimensions	750*800*750mm	
13	Weight	50KG	
Factory specification requirements			
Ac power supply Specifications		Power supply: single-phase AC220V, 50/60Hz, 10A, ground resistance less than 4 Ω	
Factory exhaust		Flow rate: 5m ³ /min Material: Corrosion resistant material	



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Compressed air requirement	Dry air without water or oil Pipe diameter: 8mm Material: PU tube Pressure: 0.4-0.6MPa
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ABOUT NAEN TECH

Naen Tech are an international leader in the design, development and manufacture of plasma surface treatment systems & advanced plasma processes.

Our products are installed worldwide and trusted to deliver consistent, reliable results in both leading research institutes and in critical manufacturing steps.

We are experts in plasma technology and surface science. We are trusted partners, valued for our courtesy, professionalism and dedication to delivering the correct solution for our clients.

OUR SERVICES

❖ Contract plasma treatment

We have more than 10,000 customer cases around the world, and we are equipped with technicians who can meet the plasma needs of various industries, and will provide a quick, no-nonsense feasibility solution for the surface treatment needs of different segments!

❖ Surface testing laboratory

With a comprehensive suite of surface analysis equipment, we are able to conduct a wide range of surface property tests, both before and after plasma treatment, in order to provide you a professional report with the whole pictures and videos.

❖ After sales support

The equipment is guaranteed for one year free of charge and provides lifetime technical services. If the equipment fails (non-human damage), we will arrange after-sales personnel to follow up within 24 hours until the fault is eliminated.

❖ Rental plasma systems

We carry a wide range of our standard equipment in stock and available for short or long term hire. This is particularly useful for in-house proof of concept trials or to satisfy short term contract work.

❖ Method development

We have invested significantly in laboratory facilities to assess, test and investigate all aspects of plasma surface modification on a wide range of materials. Coupled with extensive in-house and real-world knowledge, we can usually deliver a tailored treatment quickly and efficiently to suit your individual product or production needs.



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