

NE-MW05

5L (2.45GHz) LOW-PRESSURE PLASMA TREATMENT SYSTEM



NE-MW05 PROFILE

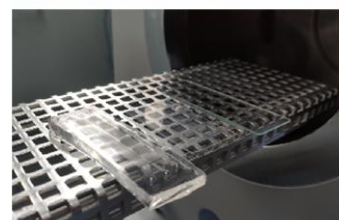
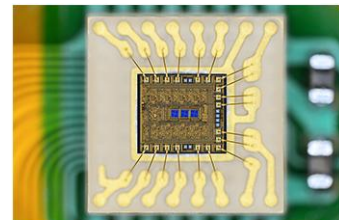
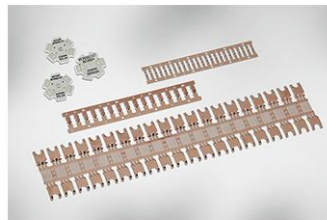
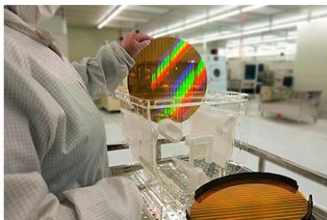
NE-MW05 is a high-efficiency benchtop microwave plasma cleaner, ideally suited for research and development, laboratory settings, and small-batch production. It specializes in applications such as microscopic surface cleaning, activation, modification, deoxidation, and photoresist stripping, renowned for its high efficiency and non-destructive nature.

Features:

- ◆ 2.45GHz high-frequency plasma for high ionization, reactivity, and cleaning efficiency.
- ◆ Electrodeless design avoids contamination, with 100% space utilization.
- ◆ Uniform, large - area, non - magnetic plasma.
- ◆ Low ion energy, safe for CMOS, MEMS, and other sensitive devices.
- ◆ Compact, stable, and easy to operate.

Applications:

- ◆ Cleaning and pre - treatment of semiconductor chip packaging substrates.
- ◆ Wafer film removal, de - bonding, and activation.
- ◆ Sacrificial layer removal in MEMS manufacturing.
- ◆ Surface cleaning, activation, and modification of materials.



Shenzhen Naen Tech Co., Ltd

Website: www.cnplasma.com

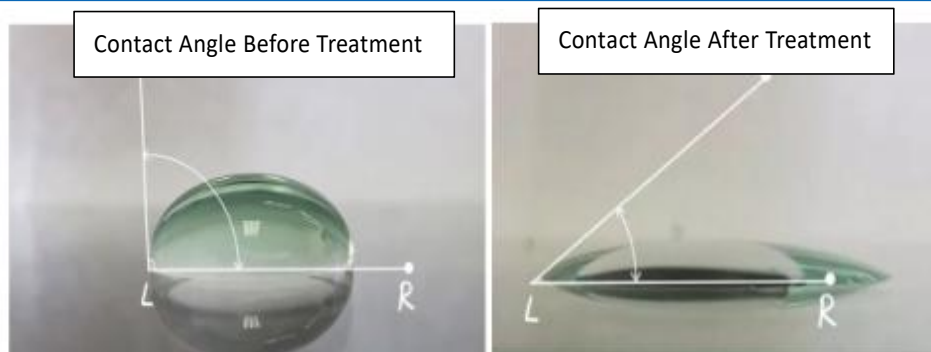
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NE-MW05 SPECIFICATIONS

	STANDARD MODEL	OPTIONAL
Overall dimensions		
Size	730mm(L)X584mm(W)X382mm(H)	
Weight	100KG(Including vacuum pump)	
Plasma generator		
Power	1000W(Adjustable)	
Frequency	2.45GHz	
Vacuum chamber		
Cavity material	Quartz glass	
Cavity size	Φ160×260(D)mm; 5L	
Effective processing range	145(W)×260(D)mm	
Gas Control		
Gas flow controller	MFC	
Flow value	0-500 SCCM	Specified by customer
Gas channel	2 channels(supports various process gases, such as oxygen, argon, hydrogen, nitrogen, etc.)	3 & 4 & 5 & 6 channels
Vacuum measurement		
Vacuometer	Pirani ; $5 \times 10^{-2} \sim 1.0 \times 10^{-5}$ Pa	
Pumping system		
Pumping speed	Oil pump	Dry pump
Limiting vacuum	1PA	
Operating vacuum degree	10-50Pa	
Control system		
Touch screen	7"	
PLC	Siemens	
Software	Plasma control system with independent patent: 3 - level permissions, auto/manual modes, recipe param setup/storage/call, alarm history query, IO monitoring.	
Real-time monitoring	Power, vacuum degree, air pressure, gas flow rate, working hours, etc.	
Alarm function	Vacuum anti-misoperation, power anti-misoperation, air pressure alarm, phase sequence alarm	
Condition		
Power Supply	220V	Specified by customer
Type of air pipe	Φ 6 mm	
Gas purity	99.999%	
Air pressure	0.4-0.6Mpa	
Exhaust port	KF40	

TYPICAL PROCESS RESULTS



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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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