

Model ID

APX300

Model No.

NM-EFE3AA



- The APX 300 contributes to high-level productivity in the etching process thanks to high speed LED film processing.
- The LED substrate surface can be etched to diverse shapes such as trapezoidal and conical form.
- Housing the equipment in one box contributes to increased area productivity.



*It may not conform to Machinery Directive and EMC Directive in case of optional configuration and custom-made specification.

Model ID	APX300
Model No.	NM-EFE3AA
Plasma source	ICP Plasma
Process gas	4 Lines (standard) (Maximum 6 Lines : Chlorinated Gas , Fluoride Gas , Ar , O ₂ , He , etc.)
Wafer size ^{*1}	φ 100 mm wafer with orientation flat (standard)
Dimensions	W 1 350 mm × D 2 230 mm × H 2 000 mm (Does not include touch panels , operation section and signal tower)
Mass	2 100 kg (differs depending on machine configuration)
Power source ^{*2}	3-phase AC 200 / 208 / 220 / 230 / 240 ± 10 V , 50 / 60 Hz , 21.00 kVA
Pneumatic source	0.5 MPa to 0.7 MPa , 250 L / min (A.N.R.)
N ₂ Source	0.1 MPa to 0.2 MPa , 50 L / smin (A.N.R.)

Please refer to the specifications on details.

^{*1} : For other size wafers, please contact us.

^{*2} : 2 line 3-phase power source, and this shows the total.

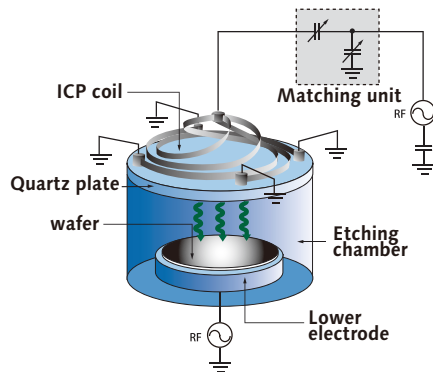
Advanced ICP and Multi - ESC realize high accuracy & high productivity



MSC (Multi Spiral Coil) ICP

Original Advanced ICP

[MSC-ICP]



High Efficiency

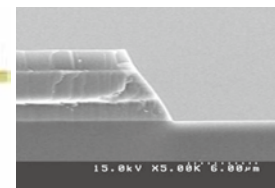
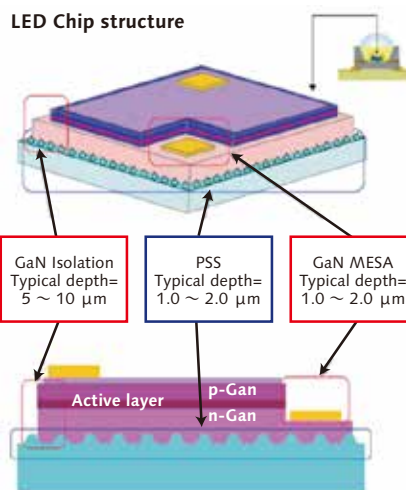
Good Uniformity

Multi - ESC

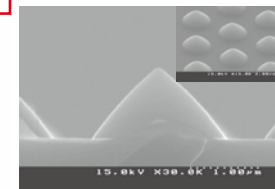
Multi number of wafers can be etched at once with Direct cooling in one chamber.

GaN and Sapphire PSS application

LED Chip structure



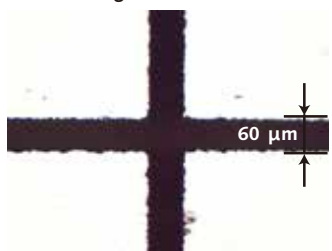
GaN processing



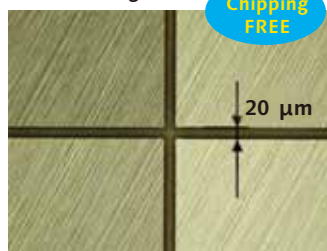
Sapphire processing

APX300 can be used for Plasma Dicing

Blade Dicing



Plasma Dicing



Chipping
FREE

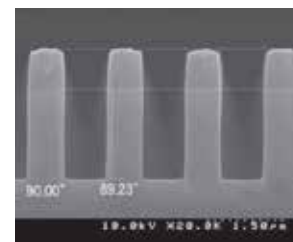


Particle
FREE

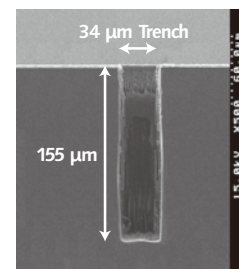
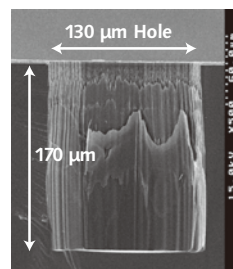


Water
FREE

(Example)
Quartz



(Example)
SiC



Safety Cautions

- Please read the User's Manual carefully to familiarize yourself with safe and effective usage procedures.
- To ensure safety when using this equipment, all work should be performed according to that as stated in the supplied Operating Instructions. Read your operating instruction manual thoroughly.

Panasonic Group products are built with the environment in mind.

For details
here



Panasonic GREEN IMPACT

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- Changes in specifications and appearance may be made without notice for product improvement.
- Please contact us via our website at connect.panasonic.eu