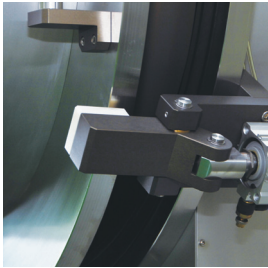




CARBOZEN™-C SERIES



Plasma Enhanced CVD System

Solutions for high purity and hard coating



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Solutions for high purity and hard coating

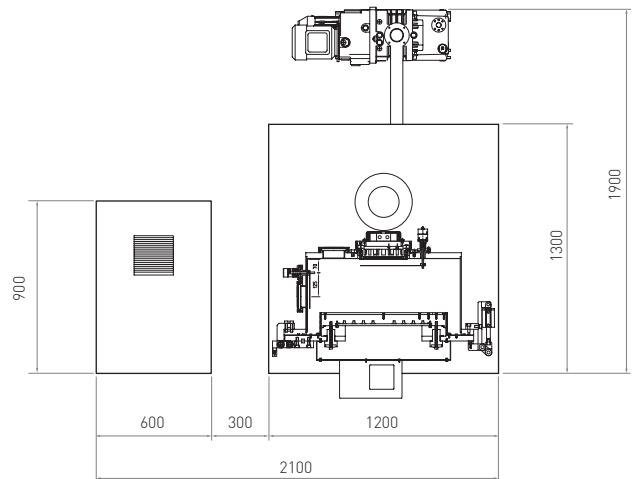


CARBOZEN™-C(PECVD: Plasma Enhanced CVD)SERIES is in the CVD method which uses plasma and it demands decompose ion gas, utilizing a generated glow discharge.

> System Specification

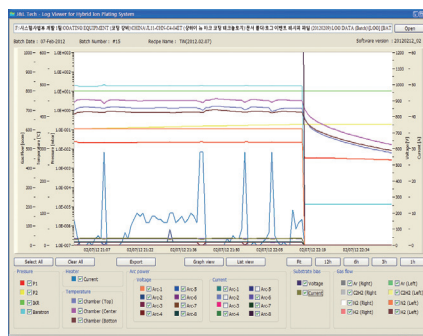
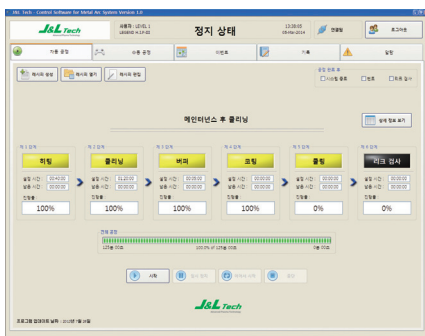
Chamber Size	Custom-made
Working Gas	Mass flow control system Ar, O ₂ , C ₂ H ₂ , CH ₄ , C ₆ H ₆ , etc
The Initial Vacuum Degree	~ 10 ⁻⁶ Torr
Bias Power	13.56 MHz (RF)
Device Operation	Automatic / Semi-automatic
Cooling System	Water cooled

> System Lay-Out

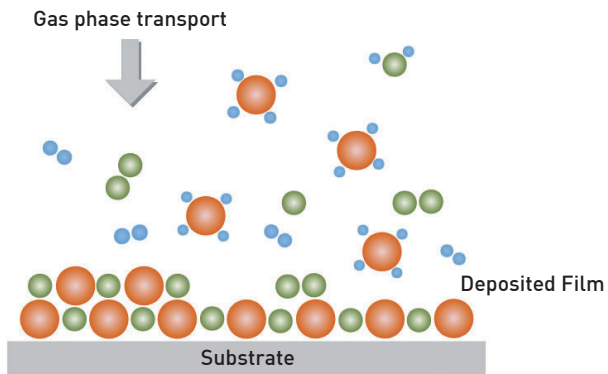


> Software of System Operation

- Safety lock for the equipment and operator
- The process can be controlled easily by MS Windows
- Enables automatic recording of the work diary during the coating process
- The entire coating process can be made into data



> Principles of CARBOZEN™-C



> Advantages of CARBOZEN™-C

- Enable to form a of high purity coating layer
- Possible to form various coating layers by source gas
- High deposition rate and uniformity to large-areas
- Easy to control and possible mass production
- Lowtemperature for ion plating

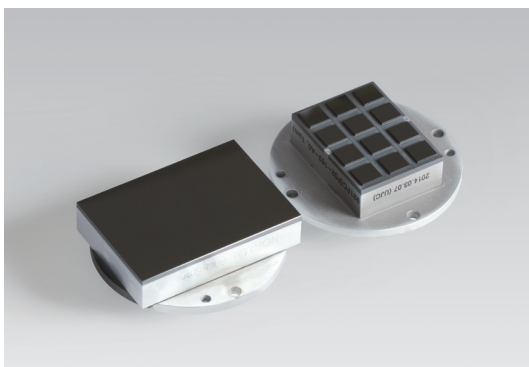
> DLC Characteristics deposited by CARBOZEN™-C

Ion Plating Rate	Max. 70 nm/min (depending on the process parameters)
Residual Stress	~ 2.0 GPa
Hardness	~ 18 GPa
Friction Coefficient	~ 0.1
Surface Roughness	< 0.1 nm

> Applications

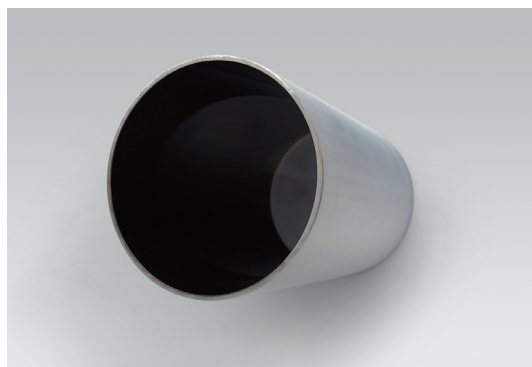
Plane-DLC

- Light guide plates, CD molds, and Coin heads for specular display components.



Inner-DLC

- Compressor parts for refrigerators and chemical plant pipes.





J&L TECH CO.,LTD

Head Office. 152 Byeolmang-ro (Seonggok-dong 676-2), Danwon-gu, Ansan-si, Gyeonggi-do, Korea

Tel. +82-31-499-1005 **Fax.** +82-31-499-1006 **E-mail.** jnltech@jnltech.co.kr

Gumi Center. 108, 3 Gongdan 1-ro (Simi-dong 140), Gumi-si, Gyeongsangbuk-do, Korea

Tel. +82-54-471-7611~2 **Fax.** +82-54-471-7613

Gwangju Center. 43-8, Pyeongdong-ro 803-gil (Ock-dong 1232-9), Gwangsan-gu, Gwangju-si, Korea

Tel. +82-62-943-8700 **Fax.** +82-62-943-8703