



VISION SEMICON

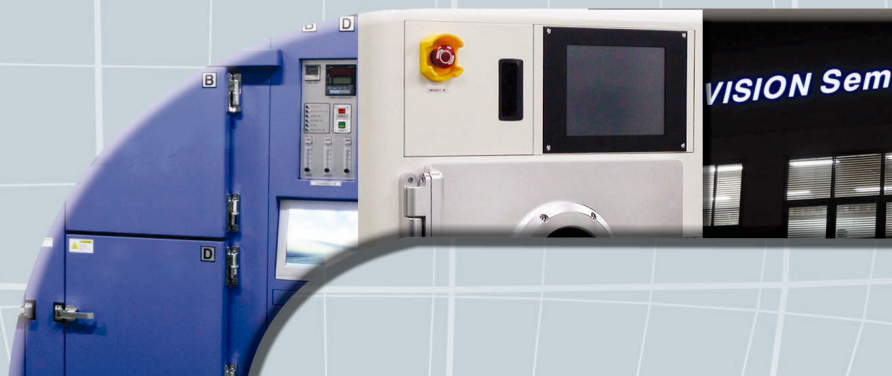
The Best Global Leader



- Plasma Cleaning System
- Management System
- Curing Oven System
- Applicable Materials



www.visionsemicon.co.kr





Heart of Semiconductor Equipment Manufacturing Field - VISIONSEMICON

As the world's global leader in semiconductor equipment manufacturing, VISIONSEMICON has ceaselessly worked with the management philosophy of merging future-oriented technology with today's technology in hopes of providing happiness and contentment for all humans. As the result, VISIONSEMICON has received reviews from clients worldwide for its plasma treatment process equipment, which is the most important procedure in semiconductor production process, oven system, and unmanned semiconductor production process.

Established in 1997, VISIONSEMICON has grabbed the attention of the world with its introduction of 4-chamber oven and vertical electrode plasma cleaner. Since the VISIONSEMICON has successfully developed 2-tier inline strip plasma cleaner in 2007 and 2-magazine plasma cleaner for inline in 2009, rising as a leader in semiconductor production facility.

The \$10 Million Export Award received in 2012 marked the 15 years of remarkable accomplishment and status of VISIONSEMICON.

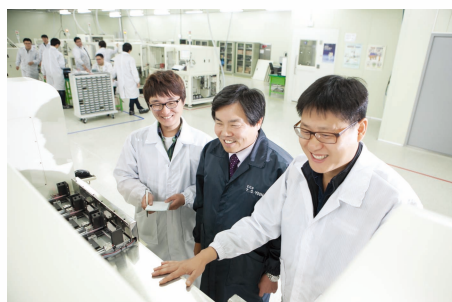
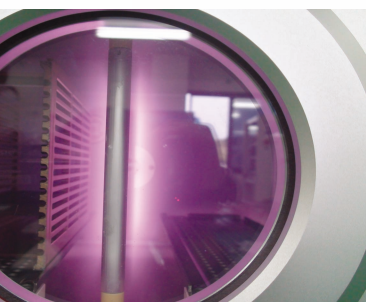
With the growth based firmly on the extraordinary achievements, VISIONSEMICON has been active in more than 11 countries in the world. The world's best semiconductor equipments manufactured with companies price and the philosophy of first-rate quality are shipped to more than 120 companies in 11 countries.

In line with the fast-paced advancement of semiconductor technology, VISIONSEMICON has sought to change and progress through continued research and technology development. The fact that 30% of all employees are involved in research and development is VISIONSEMICON's solution in this age of limitless competition. In addition to this, VISIONSEMICON is leading in the fiercely competitive semiconductor equipment industry by making bold investments.

Going beyond, providing world's best quality and productivity, VISIONSEMICON consistently makes an effort to create a new legendary equipment, and to become the world's first class semiconductor production equipment manufacturer.

History

2001.01	Develop Vision Oven	2007.03	Develop inline direct plasma
2001.03	Enrolled as Vision Semicon Corporation.	2007.07	Registered 'INNO-BIZ' company
2002.01	Develop 1 Chamber Oven	2007.08	Develop vertical inline oven
2002.05	Develop 4 Chamber Oven	2007.12	Develop dual chamber direct plasma
2002.09	Epoxy time display	2008.05	Develop jedec tray handing direct plasma
2002.11	Develop gold wire vending system	2009.08	Develop chamber direct plasma cleaner (Pro1)
2002.12	Certified 'ISO9001'	2009.12	Develop VSP-88DM 2Magazine plasma cleaner
2003.01	Develop EMS-30A epoxy Managing System	2010.01	Hold a new head office completion ceremony
2003.08	Develop VSP-88A Slot Magazine Plasma Cleaner	2010.03	Joined IBK bank of the family company
2004.01	Develop Heater Block & Clamp Managing System	2010.05	Develop manual direct plasma cleaner
2004.02	Contracted agent in Shanghai	2010.06	Achieved for 3,000,000 USD in exports
2004.06	Develop Solder Ball Barcode Managing System	2010.08	Develop 2 fan oven system
2004.11	Develop EMS-70A Wireless networking epoxy Managing System	2011.03	Develop pusher type direct plasma cleaner (Pro+)
2004.12	Develop Flip chip material Managing System	2011.05	Develop rotary plasma
2005.01	Develop VSP-88T atmospheric pressure plasma	2011.06	Develop chamber for MLF
	Develop VSP-88D Direct Plasma Cleaner		Achieved for 5,000,000 USD in exports
2005.10	Registered 'Venture Company'	2012.11	Achieved for 10,000,000 USD in exports
2005.12	Develop hume less Green Oven	2013.06	The Completion of the new production building
2006.01	Develop power line communication	2013.09	Develop Autoovens (New type Oven + AGV system)
2006.02	Establish R&D Center		
2006.12	Certified 'ISO14001'		



Plasma Cleaning System

Direct Type

For die bonding, wire bonding, and the strengthening of the adhesiveness of mold, the product conducts plasma cleaning directly to each lead frame and substrate, offering outstanding quality of plasma cleaning and consistency.

VSP-88D Pro+

Yield improvement with excellent plasma cleaning quality /uniformity

- Single in-line system from magazine to magazine
- High throughput productivity

Auto Conversion



VSP-88D Pro

Yield improvement with excellent plasma cleaning quality /uniformity

- High UPH with excellent uniformity
- Full automatic operation

Auto Conversion



VSP-88D Pro1

Yield improvement with excellent plasma cleaning quality /uniformity

- High UPH with excellent uniformity
- Burnt Free chamber(optional)

Auto Conversion



VSP-88D

Yield improvement with excellent plasma cleaning quality /uniformity

- High throughput capability with 4 lane transferring & short cycle time
- Simple utility connection design with Vertical UP/DOWN chamber movement



VSP-07D

Yield improvement with excellent plasma cleaning quality /uniformity

- Excellent & consistent Cleaning performance less than 10 degree
- Mis-operation free



VSP-88D-M

Yield improvement with excellent plasma cleaning quality /uniformity

- No delamination for molding
- Convenient handling of half finished PKG/PART (PIP etc)



Plasma Cleaning System Batch Type

In order to prevent damage to the stainless vacuum and wires bonded through special insulation method that is used to promote efficient RF power transmits, Batch type plasma cleaning equipment utilizes vertical magazine loading. By developing patented vertical shelf for slot magazine, we were able to increase classing capabilities by 20% compared to the conventional horizontal method, and this has received great reviews from the customers.

VSP-88H

Improve wire bindability and prevent mold delimitation

- Adopted stainless steel vacuum chamber and special insulating method in order to RF power transmits to target material efficiently.
- Vertical magazine loading method to prevent bonded wires damage from magazine loading.



VSP-88L

Can be possible various cleaning evaluation for substrate and so on

- Multiple function depends on electrode changing
- Simple installation on table



Management System

EMS-1030TB / EMS-30R-V2

EPOXY MANAGING SYSTEM

- This system creates mis-operation free and efficient storage management



VSWV-2004

CAPILLARY VENDING SYSTEM

- This system creates mis-operation free and efficient storage management



Curing Oven System

Our Curing Oven boasts of consistent curing temperature and precise temperature control, and it can be comprised of one to four chambers based on the customer's request.

Each chamber can be controlled separately, leading to efficient management of cycle time.

Moreover, with the completion of the Clean Oven development for Wafer Level Package, customers have already begun to make purchases.

Standard Oven System

Temp uniformity : Within $\pm 3\%$ at set point during sustenance section

- Temp controller accuracy : Within $\pm 1^{\circ}\text{C}$ at set point during sustenance section

- Create paperless operation thru digital recorder & networking
- LAN networking & CIM is available / Data can be stored on PC hard disk
- High airflow and treat uniformity



AUTOVENS

VSP0 / VSC0-12AGV

- Main computer can control and monitor all of oven function
- Remove the internal Fume With HEPA Filter (99.99%)
- Reduce cure time



Pressure Oven System

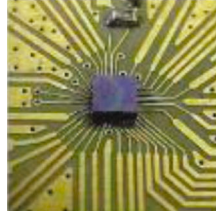
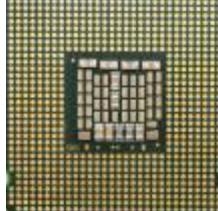
VSA0-1CM

- High quality, high Stability temperature control with paperless networking system
- Multiple mechanical & electronic pressure safely system maximized loading capability for all kinds of MGZ
- Easy to shelf maintenance

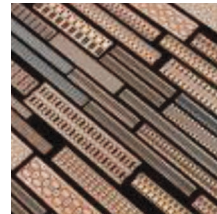
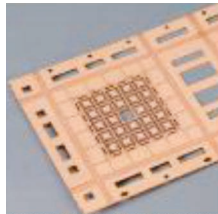


Applicable Materials

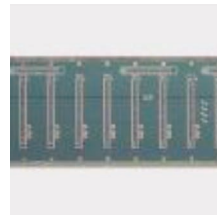
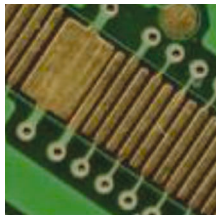
FLIP CHIP



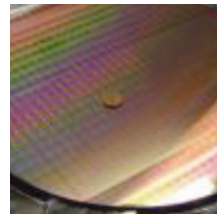
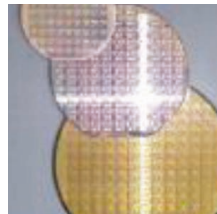
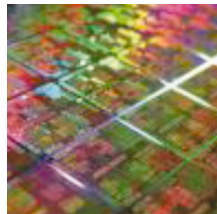
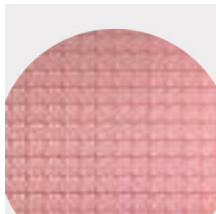
LEAD FRAME



PCB



WAFER





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