

Satalab.co (Samane Tajhiz co.) is one of the leading companies in Micro/NANO fabrication (Mems/Nems, Microfluidics, Micro Electronics) equipment business.

The company is the only chain manufacturer of Micro/Nano fabrication equipment chain like Spin coater, Lithography, wet Etching, Glovebox, Sputtering and probe station.

So far, more than 30 universities, R&D, research centers and private companies are using our company's products. Training courses in the field of Micro/Nano fabrication also held by the company's service center.

Satalab Division:

R&D

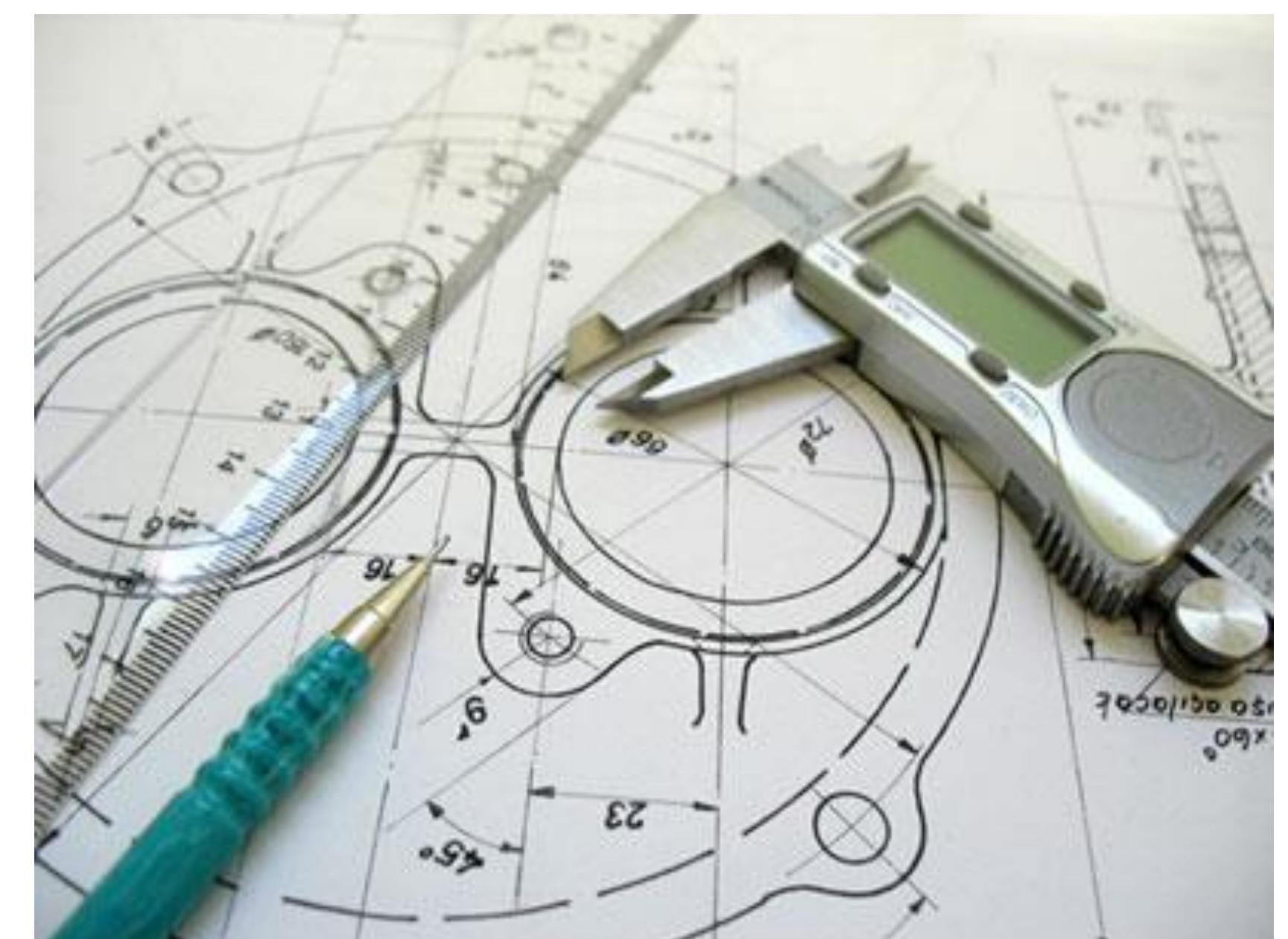
Engineering

Assembly

Manufacturing

Quality Control

Training & Services



-Factory: 16<sup>th</sup> Block, Saman 23<sup>th</sup> street, Chahardangeh Industrial town, Saedi Expy, Tehran, Iran  
-Training & Services Office : No. 30, Unit 2, 3<sup>rd</sup> Boostan Alley, Abazar Blvd., Hakim Expy, Tehran, Iran

Factory Phone: +98 21 55 280 305

Training & Services Phone: +98 21 44 00 32 05

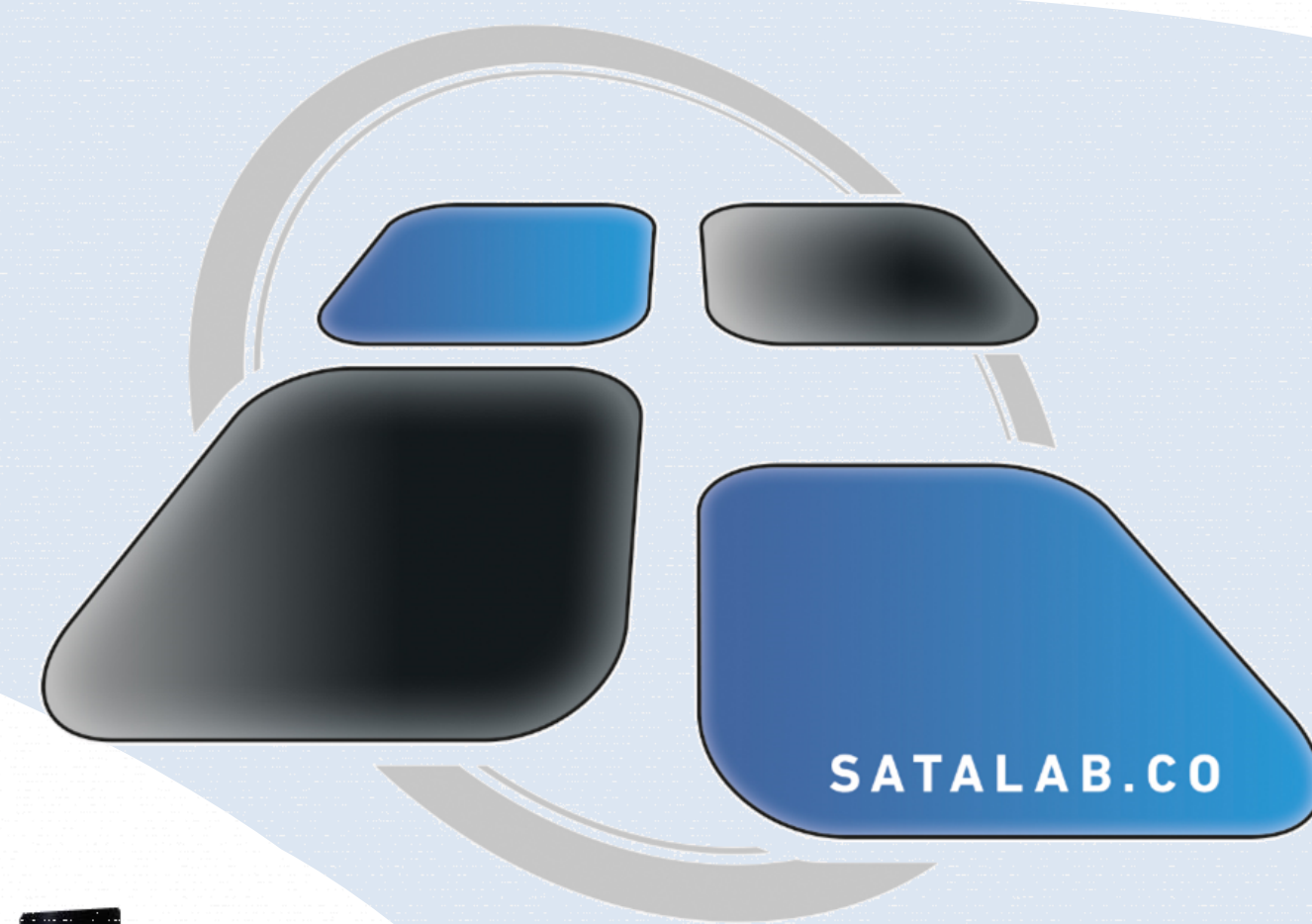
Fax: +98 21 55 280 313

Website: [www.satalab.co](http://www.satalab.co)

Email: [Info@satalab.co](mailto:Info@satalab.co)



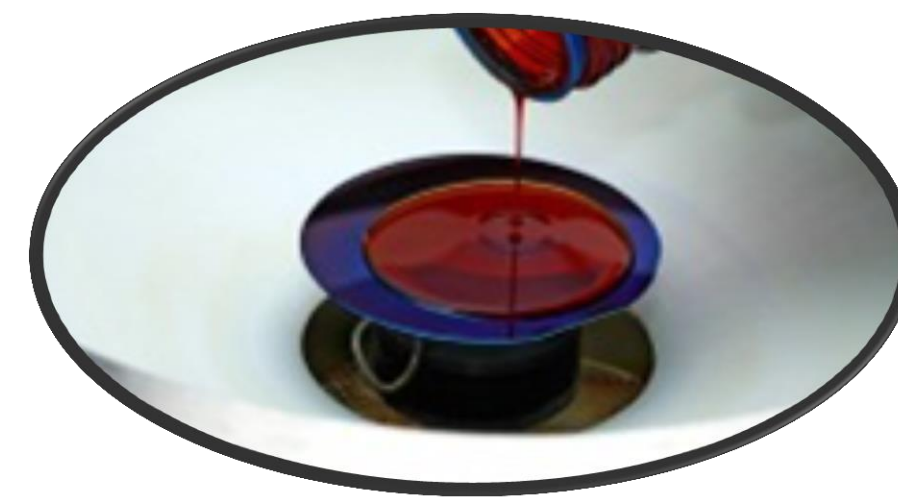
# Micro/Nano Fabrication Technology



- ✓ **Equipment for R&D & production Line**
- ✓ **Micro/Nano Fabrication Services**
- ✓ **Process Training**

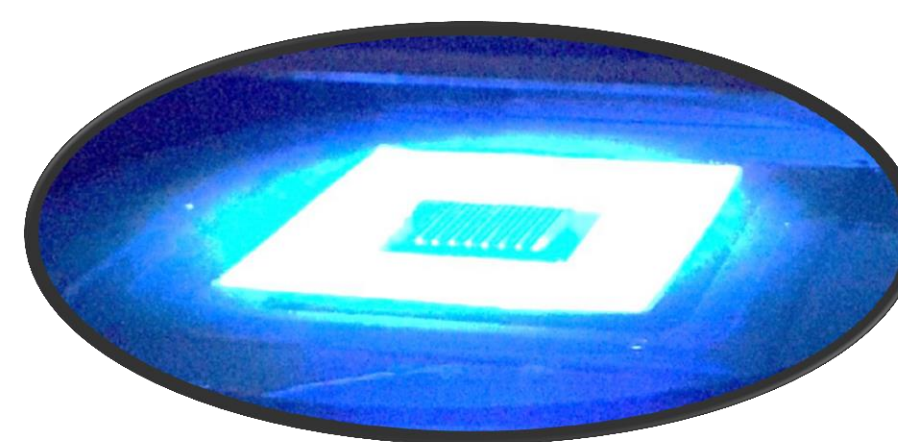
## **Spin Coating**

- Coating Photo Resist Layer
  - On substrate or deposited layer



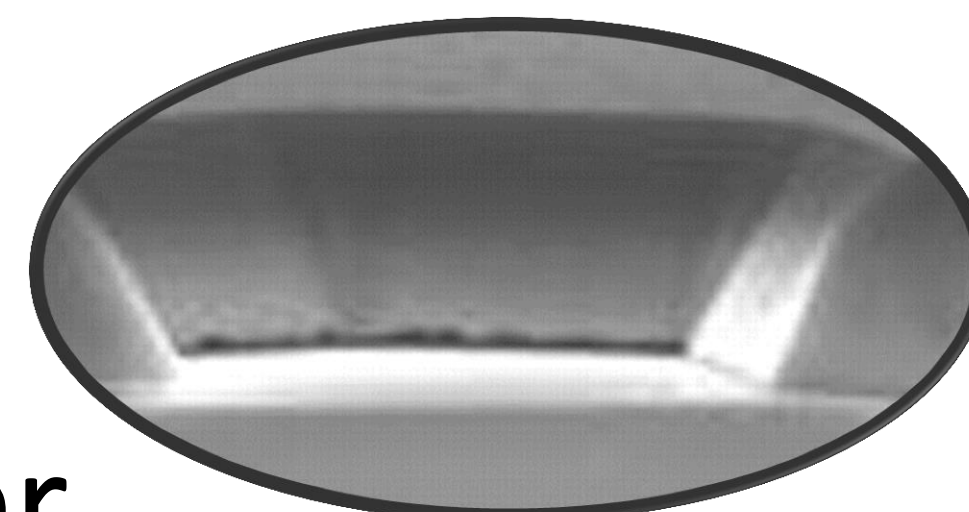
## **Lithography**

- Pattern Transfer
  - From Mask to Substrate



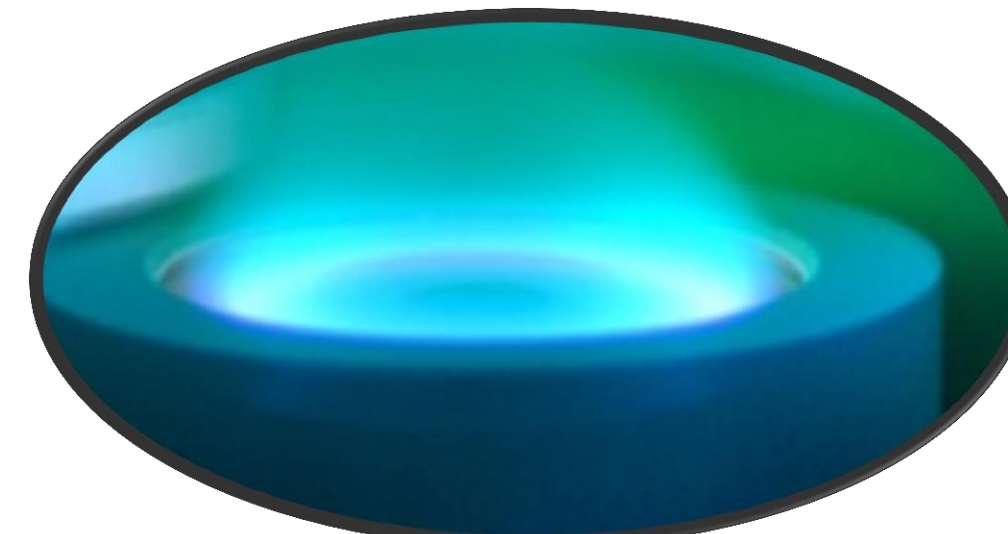
## **Etching**

- Removing layer or pattern
  - From substrate or deposited layer



## **Sputtering Deposition**

- Deposition by plasma
  - From Metal or non metal targets



## **Fab. Stations and Packages**

- Mems Station
  - Microfluidics Station



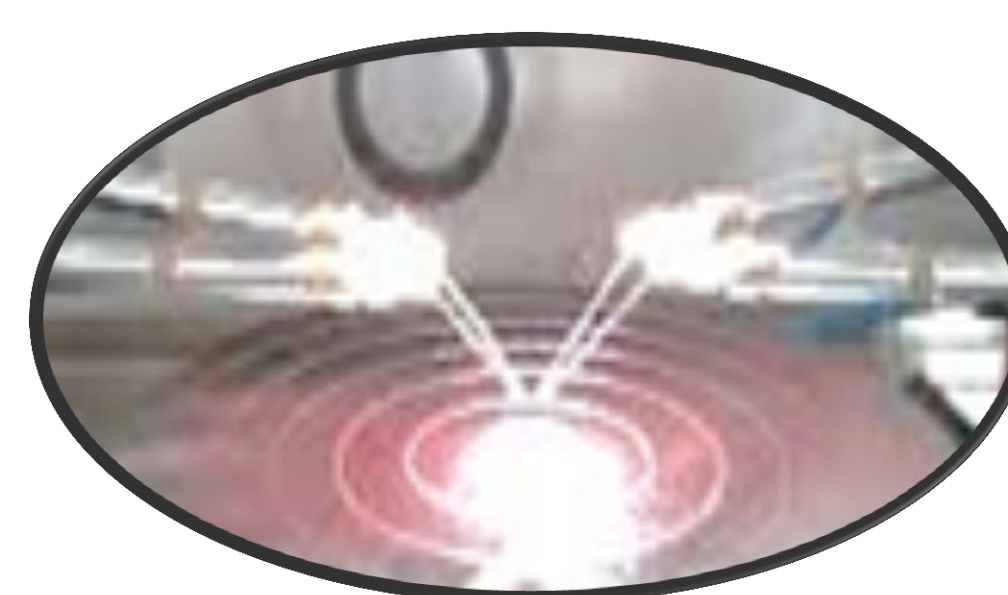
## **Inert and clean Atmosphere**

- Glovebox, stainless steel
  - Clean Bench with Hepa filter



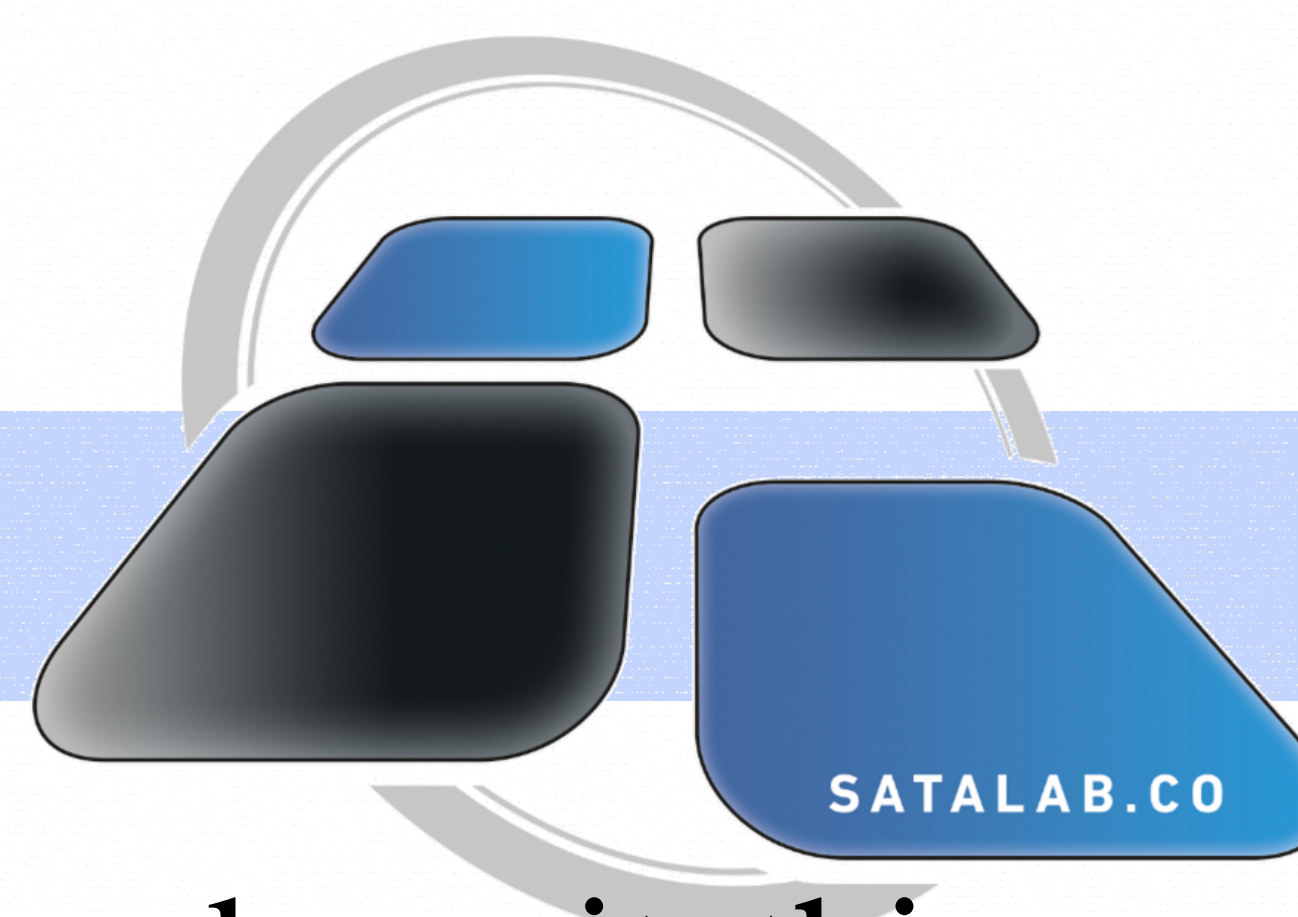
## **Probe Station and Positioner**

- Evaluation fabricated products
  - Micro positioning





# Sputtering Deposition



Magnetron Sputtering system is a vacuum process used to deposit thin films on substrate for a wide variety of commercial and scientific purposes, such as making ultrathin semiconductors, metal films, etc. It plays an important role in a coating system. In order to get the uniform deposition of material surface, high voltage and electric current are used in magnetron sputtering system. Satalab Sputtering System is one of the best choice in this field.

Features	Specifications
No. of Cathode	3 x 2" or 4"
Rough Vacuum	Rotary Vane Pump
High Vacuum	Turbo Molecular Pump
Vacuum system	Standard Backing & roughing
Backing & Roughing System	By 3 High Vacuum Electrical Valve
Target Moving	Linear Independent Moving For Max Rate
Chuck	Moving Hot plate
DC Power	100 to 500 V dc 500 watt
Target Cooling	3 target Water Cooling
Warranty	1 year
Training and technical support	In Training center and free remote support
Integration	With Spin coater And/or Lithography

