

# 10

## SECTION

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### VACUUM CHAMBER & SYSTEM

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## Vacuum Chamber & System

### Vacuum Chambers

Vacuum environment is an essential ingredient in thin film coating process and surface analysis science. The quality of vacuum chambers is very important for the performance of equipment.

Htc has committed to vacuum industry since it is founded and has become a partnership with World-Class Equipment Suppliers. We have extensive experience in designing and manufacturing various customized vacuum chambers. Htc is able to provide UHV system for surface analysis science to the university laboratory. We also can design a special cooling system for the process chambers of thin film solar cell equipment which the temperature of substrate comes near to 600°C. Htc not only has a strong manufacturing process management, but we are also able to provide assembly and test service of vacuum module and system in house to reduce the lead time and logistic cost for customers.

### The advantages of Htc vacuum for vacuum chambers:

1. Htc has extensive experience in vacuum industry.
2. A comprehensive range of vacuum components such as flanges, fittings, and valves in stock are ready for chamber manufacturing.
3. Pumping system is all set for chamber pumping and leak testing, and our own pump service teams can offer any assist in case.
4. Htc is able to provide assembly, system integration, and operation test that help customers to create higher values of productivity.

Htc provides various vacuum chambers to the customers in Japan, Europe, and North America and established an excellent reputation for quality. The excellent production system, stringent quality assurance process, and sufficient inventory lead Htc to achieve the high quality and accurate delivery to satisfy our customers.

## ***Vacuum Chamber***

### **Research & Laboratory Chamber**



### **Research & Laboratory Chamber**



## *Vacuum Chambers*

### Spherical Chamber 8"



### Spherical Chamber 16"

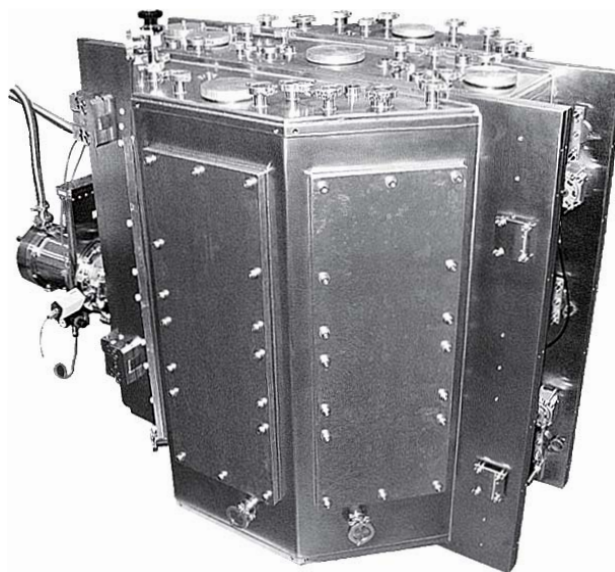


## *Vacuum Chamber*

### Ion Sputter Chamber



### Double Layer Chamber for Cutting, Forming, Molding and Stamping Tools Coating



## *Vacuum Chambers*

Cylindrical Vacuum Chamber for  
Optical Technology Research  
( $\Phi$  1.8m x L 5.23m)

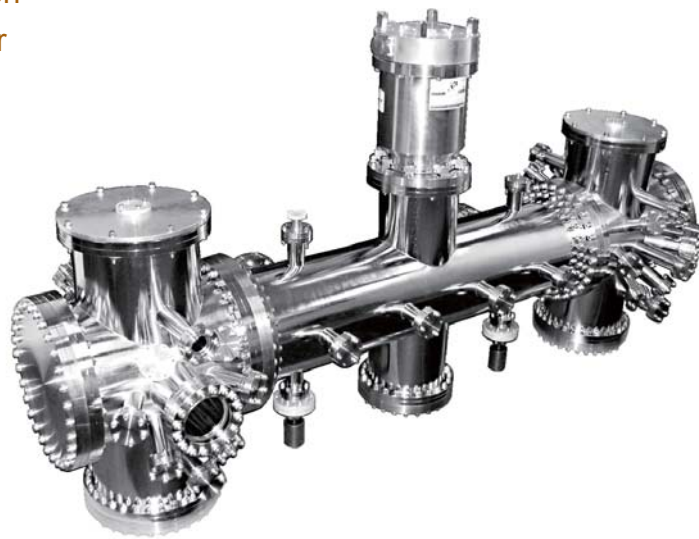


Cylindrical Vacuum Chamber



## *Vacuum Chamber*

Synchrotron Radiation  
Accelerator Chamber



## Synchrotron Radiation Accelerator Chamber





## *Vacuum Chambers*

### Inline Sputter Chamber



### Aluminum Chamber



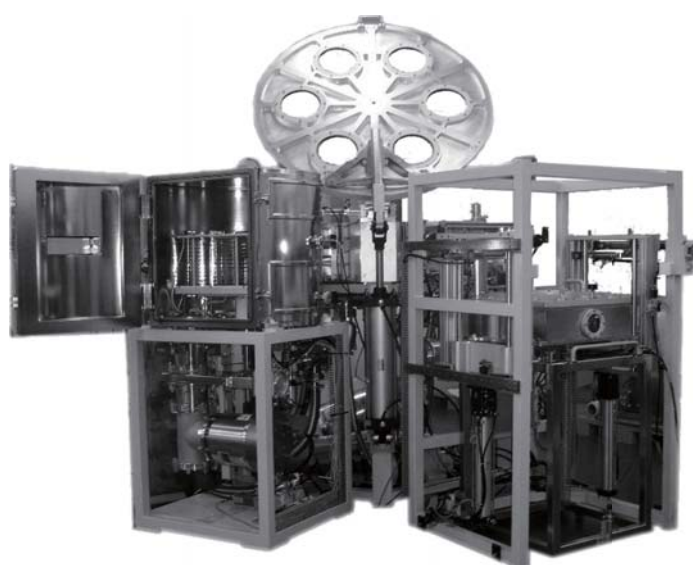


## ***Vacuum System***

### **Vacuum Evaporation and Polymerization System**



### **Cluster Transfer System for Flexible Substrate Coating**



## *Vacuum System*

### Thin Film Solar Cell Sputtering PVD System



### Inline Sputter Coating System



## ***Vacuum System***

Cutting Tool PVD  
Coating System



## **UHV System for Surface Analysis**

