SMART COAT 3.0

Smart Thin Film Coaters for R&D

HHV ADVANCED Technologies

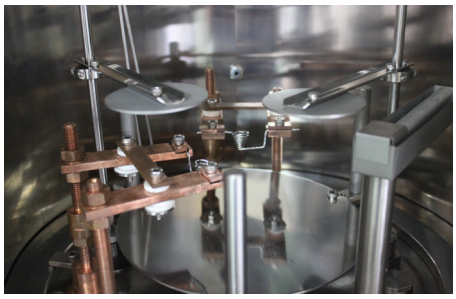
Our Smart Coat 3.0 trio are ideal entry level solutions for budding researchers. The platform provides cost-effective solutions for a range of PVD processes such as thermal resistance sources, glow discharge cleaning, electron beam sources, effusion cells, or magnetron sputtering sources. The Smart Coats are versatile and compact research tools which can accommodate a range of operational accessories that can be custom integrated depending on the user's research requirements. The platform allows for future upgrades to keep pace with evolving requirements of the user.

CHAMBER CONFIGURATIONS

Bell Jar Chamber

Cylindrical Chamber

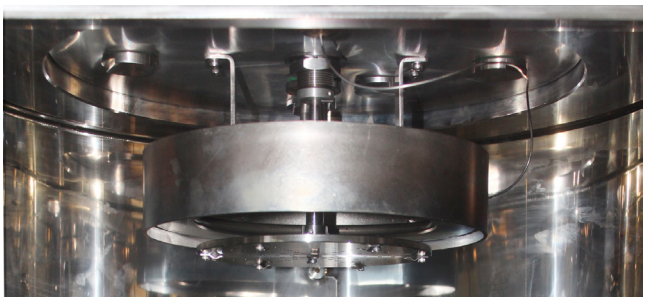
Box Chamber



Thermal sources with
glow discharge accessory

Electron beam
source

Magnetron and
organic sources



Rotary work holder with heater

Knudsen Planetary work holder

Glancing angle deposition
(GLAD) work holder

Rotatilt
work holder

SPECIFICATIONS

CHAMBER SIZE	Box chamber: 400 mm (Ø) x 500 (H) Bell Jar chamber: 315 mm (Ø) x 354 (H) Cylindrical glass chamber:300 mm (Ø) x 365 (H)
HV PUMPING OPTIONS	Diffusion/Turbo with built-in liquid nitrogen trap
ROUGHING/BACKING OPTIONS	Rotary / Dry. Optional Booster Pumps
BASE PRESSURE	Up to 10^{-7} mbar
SUBSTRATE SIZE	Up to 260 mm (Ø) standard
SUBSTRATE HOLDER	Rotary, Planetary, Knudsen Planetary, Domed, Heating, Biasing, and other custom options

CONTROL OPTIONS

Manual control

Quartz crystal controller based auto sequence

RESULTS

Uniformity of ± 5 % as standard. Custom designed configurations to get better than ± 3 %

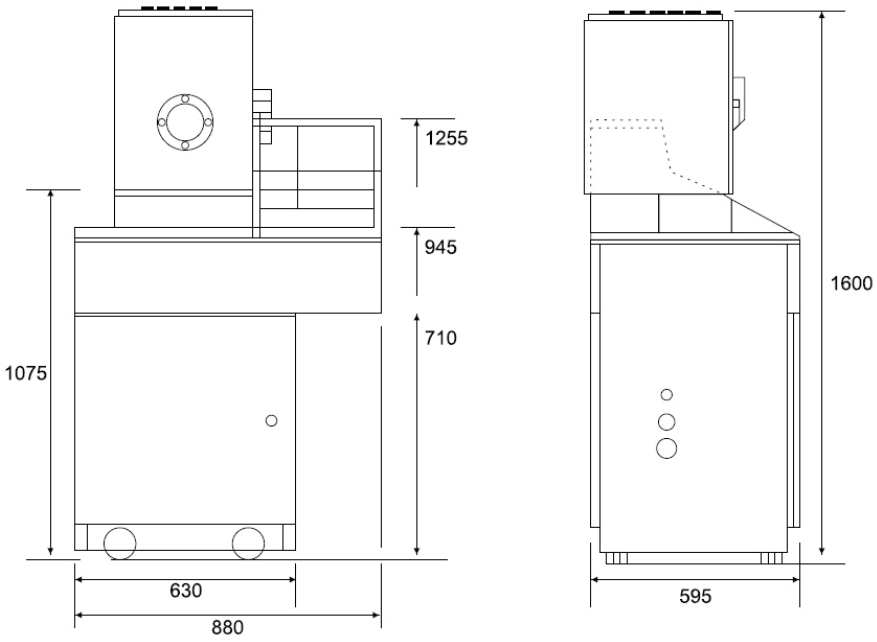
FEATURES

- Highly versatile and cost-effective platform
- Range of vacuum chambers and work holders to suit applications
- Optional integrated film thickness monitoring/control system
- Intelligent high vacuum valve
- Completely interlocked for user safety
- Compact unit minimizes area required

APPLICATIONS

- Semiconductor devices
- Optical coatings
- Metal coatings
- Organic Electronics
- Hard coatings
- Solar cells

LAYOUT



All dimensions in mm

Representative footprint. Actual dimensions will depend on system configuration

HHV ADVANCED Technologies

Registered Office:

Site No. 17, Phase 1, Peenya Industrial Area, Bengaluru 560058, Karnataka, India. Phone: +91-80-41931000
Email: infotfed@hhvadvancedtech.com
Website: www.hhvadvancedtech.com

Manufacturing Unit:

Site No. 31-34 & 37, Phase1,
KIADB Industrial Area, Dabaspet, Bengaluru Rural 562 111,
Karnataka, India, Phone: +91-80-66703700