ATS 500

Automated Thin Film Coating System

HHV Ltd

Thin film deposition tools
for science and industry



The ATS 500 features a global design that is suitable for research and small batch production in semiconductors, organic electronics, photovoltaics, optical coatings, lift-off coatings, and various other metallic and dielectric depositions. The system comes with a full color, touch-screen interface with integrated process recipe driven control, and data logging functions. The system is highly flexible and can be customized with a range of vacuum pumping options, chamber height options and modular process accessories to suit the specific end-user's applications.

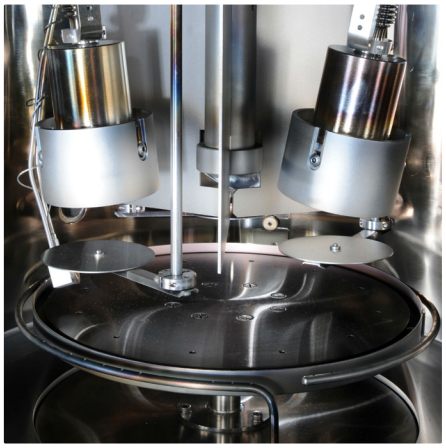
CHAMBER CONFIGURATIONS



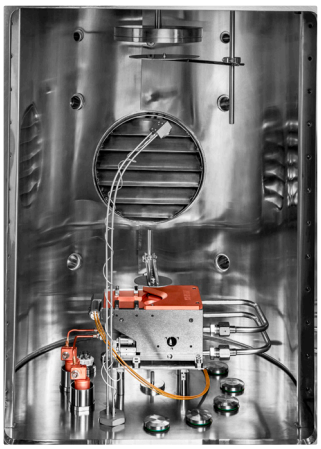
Thermal Evaporation



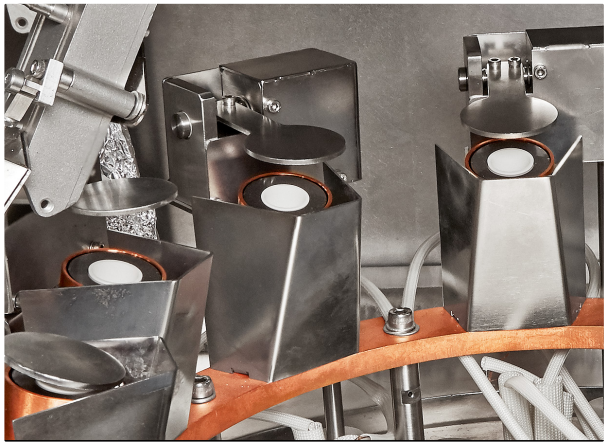
Upward Sputtering



Downward Sputtering



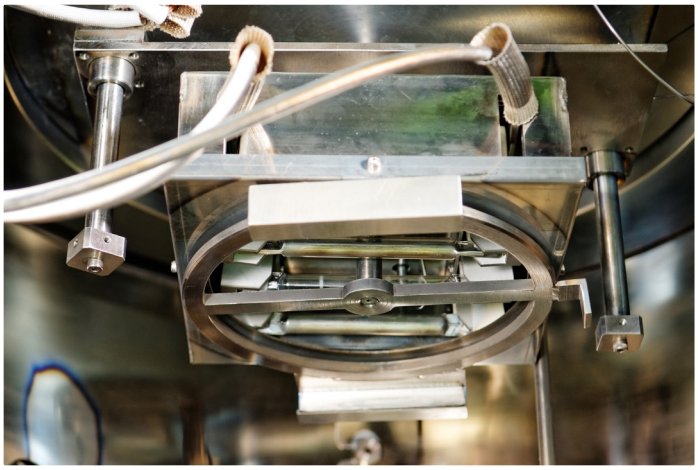
Electron Beam Evaporation



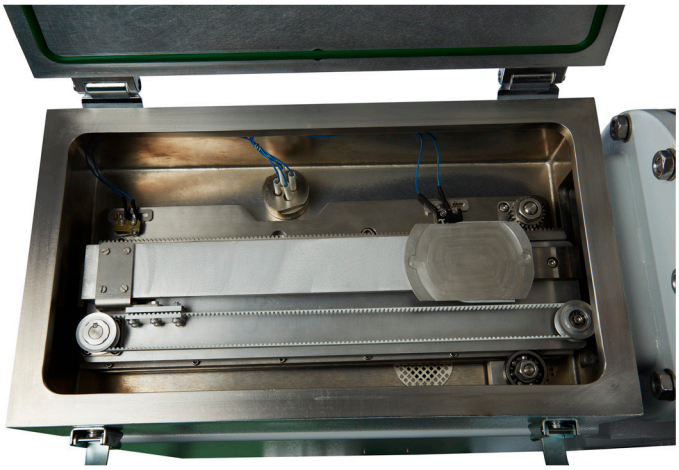
Controlled Evaporation



Hybrid Configuration



Sample Holder

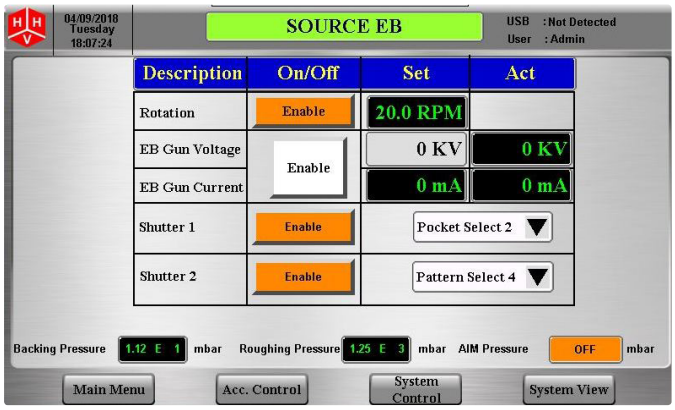


Load Lock

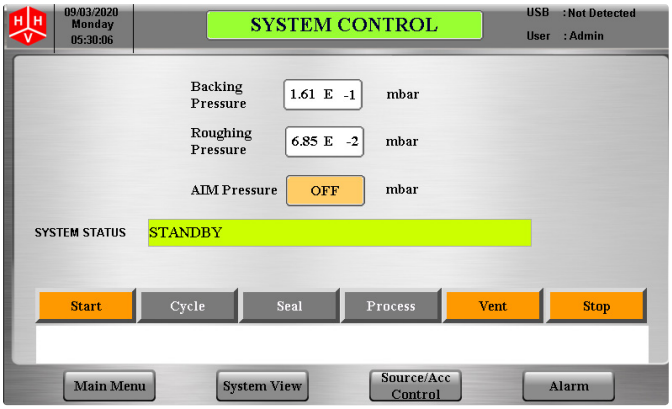
SPECIFICATIONS

CHAMBER SIZE	500 mm x 500 mm (d x h), custom chamber height for lift off
HV PUMPING OPTIONS	400 l/s to 1000 l/s Turbo, 1500 l/s Cryo Pump
PRIMARY PUMPING OPTIONS	Rotary/Dry
BASE PRESSURE	10^{-7}mbar, ATM to 1 x 10^{-6} < 40 min
SUBSTRATE SIZE	Up to 200 mm diameter
SUBSTRATE HOLDER OPTIONS	Rotary, Watercooled, Heated, Bias and Z shift

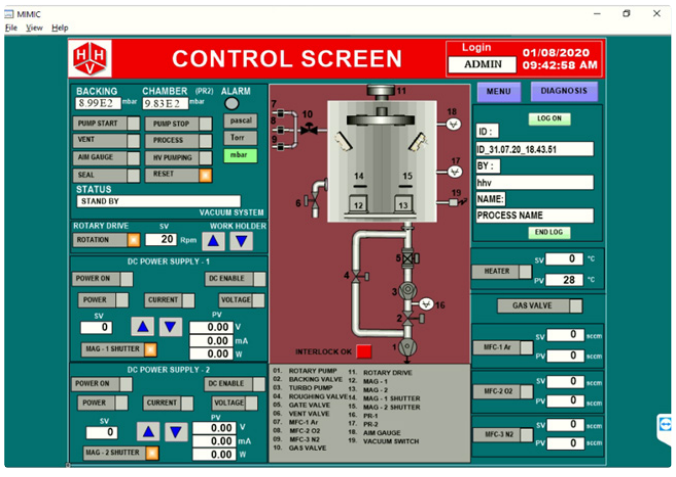
CONTROL OPTIONS



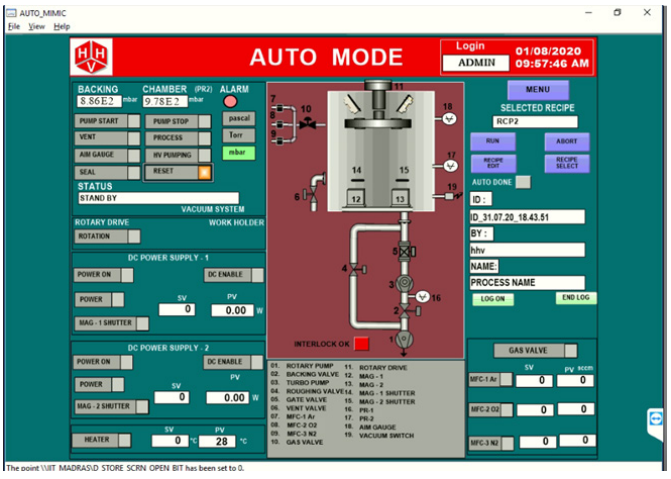
Touch Screen HMI Operation



Touch Screen HMI Operation



Recipe Builder



Data Logging

RESULTS

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

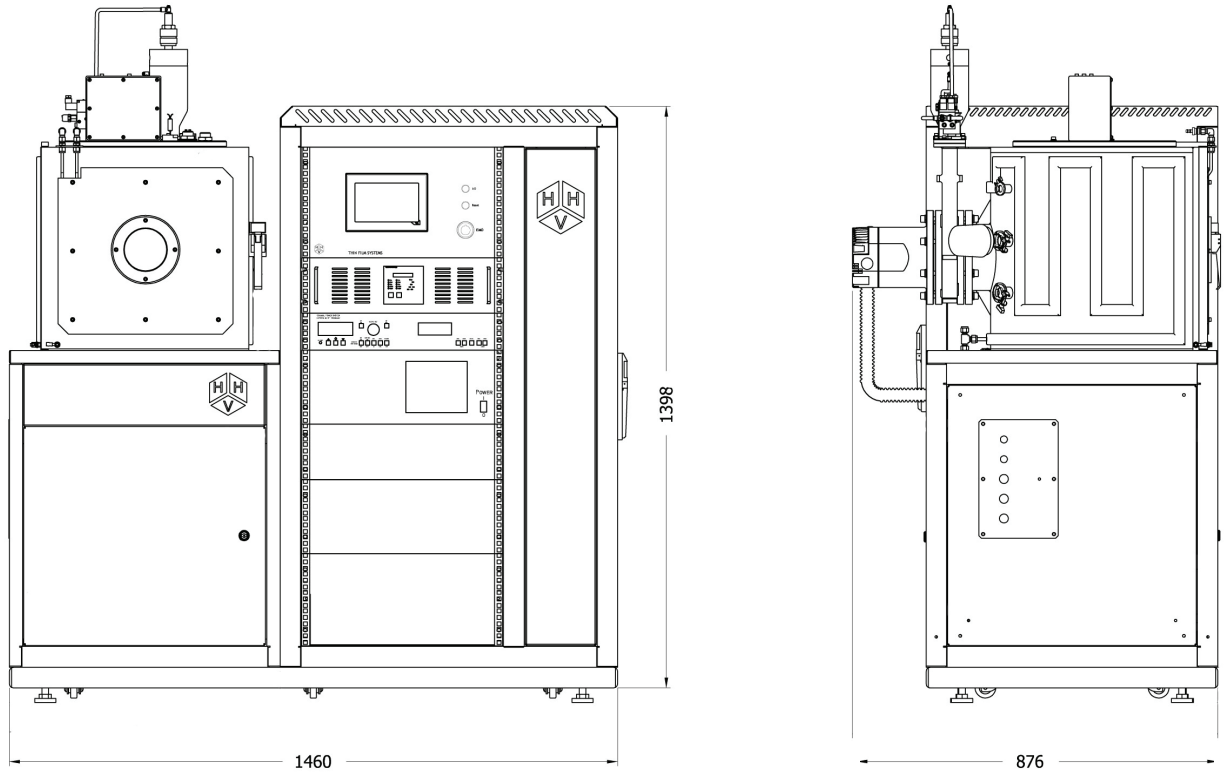
FEATURES

- Wide range of processes in a single system
- Ion beam process for optical coatings
- Customizable chamber height
- Accommodates range of work holders
- Fully interlocked for operator safety
- Compact unit minimizing footprint

APPLICATIONS

- Semiconductors
- Optical coatings
- Metal coatings
- Organic electronics
- Hard coatings
- Lift-off coatings

LAYOUT



All dimensions in mm

HHV Ltd
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for science and industry

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