TF Series

Thin Film Deposition Systems

HHV Ltd

Thin film deposition tools
for science and industry



The TF series of coaters comprising the TF 500, 600 and 800 are designed for enhanced levels of process capability. A choice of chamber sizes, accessories, deposition techniques, work holders, load locks and pumping options allows the system to be configured to your exact needs. The chambers allow for glove-box integration with either horizontally sliding or vertically sliding access doors. Control options include manual operation or a PLC based control of vacuum cycle in combination with manual or deposition controller based process cycle, or a PC-based system which provides complete automation with advanced functions such as recipe control and data logging.

CHAMBER CONFIGURATIONS



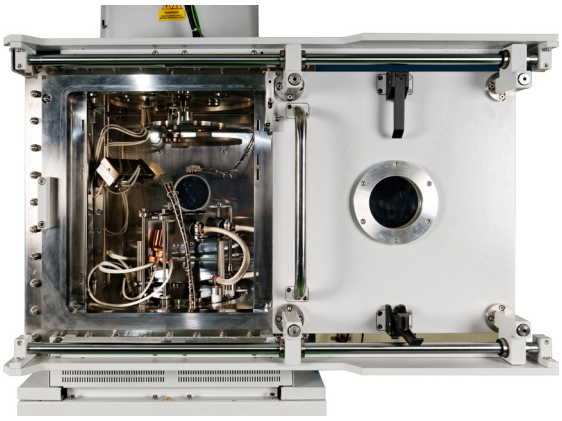
TF 500



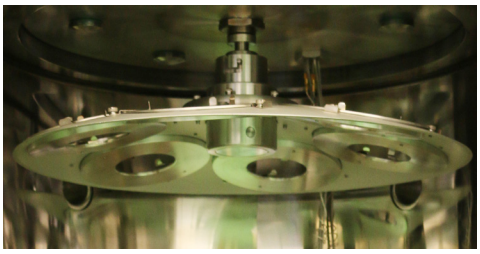
TF 600



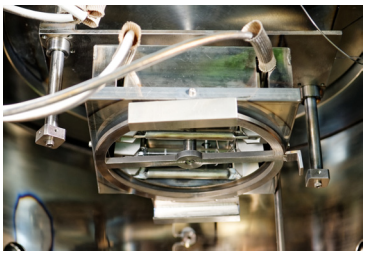
TF 800



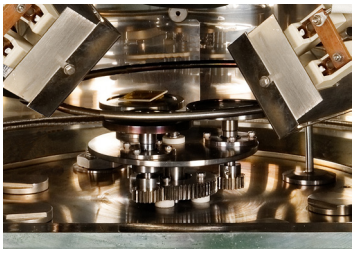
Glove Box Integrated Coater



Rotary Holder



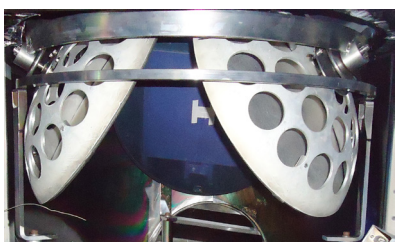
Rotary with Heating,
Biasing and Z-shift options



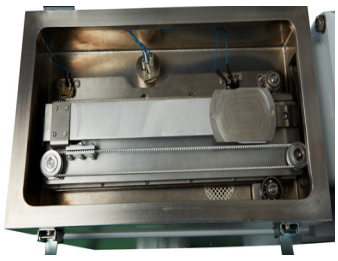
Planar Planetary



Planetary



Knudsen Planetary

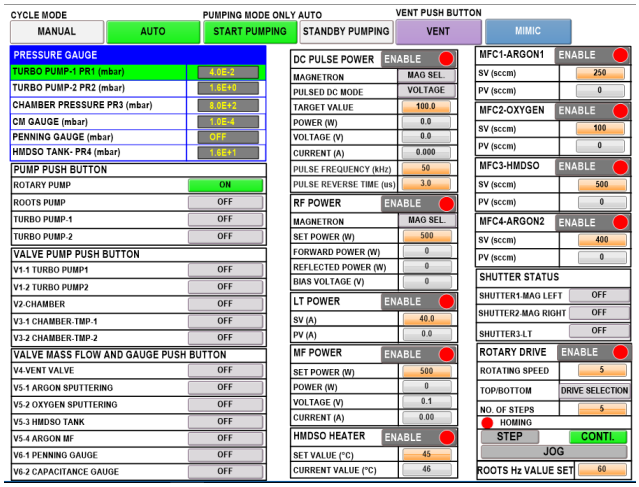


Load Lock Substrate
Handling

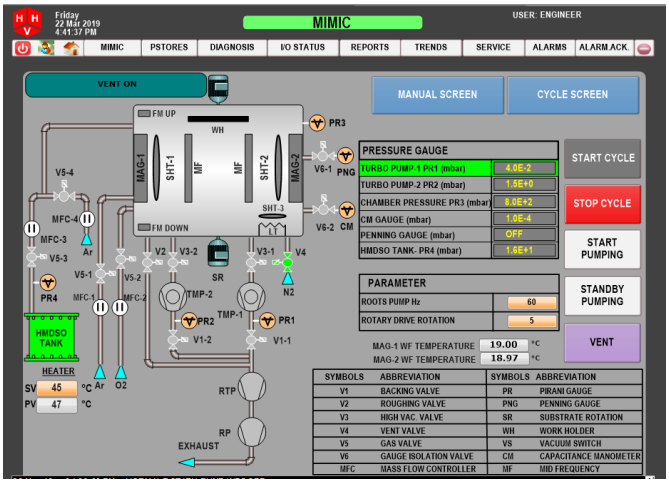
SPECIFICATIONS

CHAMBER SIZE	Chamber diameter ranging from 500 mm to 800 mm. Customizable Height
HV PUMPING OPTIONS	Turbo / Cryo
ROUGHING/BACKING OPTIONS	Rotary / Dry. Optional Booster Pumps
BASE PRESSURE	Up to 10^{-7} mbar
SUBSTRATE SIZE	Maximum up to a 600 mm diameter
SUBSTRATE HOLDER	Rotary, Planetary, Knudsen Planetary, Domed, Drum, Heating, Biasing, Z shift, and other custom options

CONTROL OPTIONS



Auto mode



Mimic screen

RESULTS



Range of Optical and Electronic Thin Film Coatings produced using TF Series Coaters

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

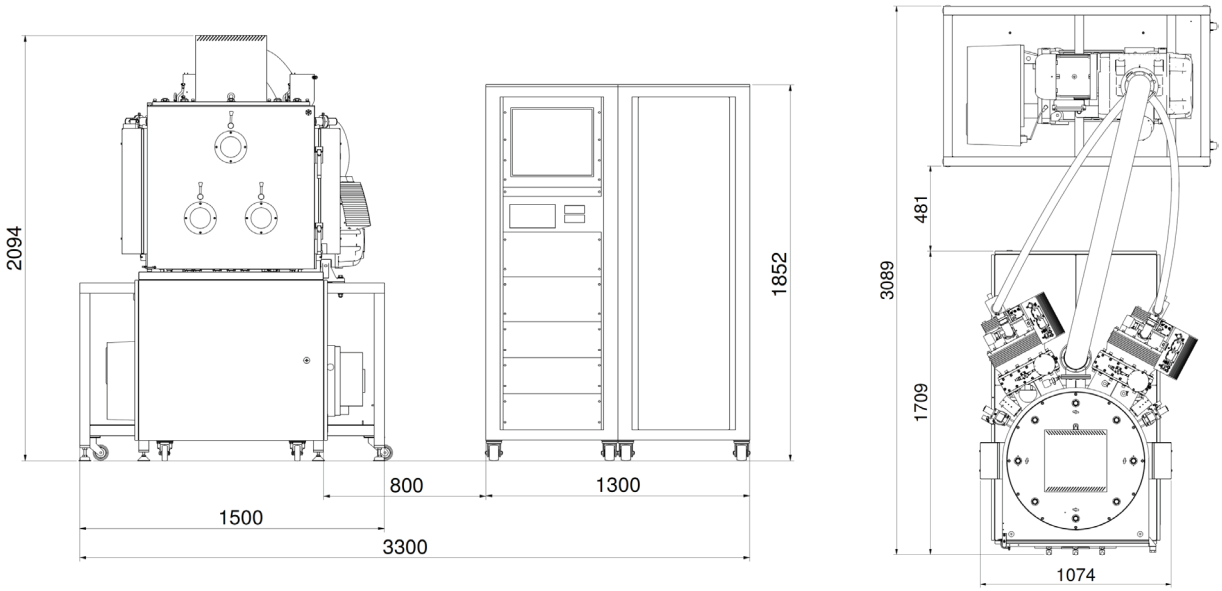
FEATURES

- Wide range of processes in a single system package
- Ion beam process for optical coating applications
- Customizable chamber height to suit user requirements
- Accommodates range of work holders
- Fully interlocked for operator safety
- Compact unit minimizing footprint

APPLICATIONS

- Semiconductors
- Optical coatings
- Metal coatings
- Organic Electronics
- Hard coatings
- Solar cells

LAYOUT



All dimensions in mm

Representative footprint. Actual dimensions will depend on system configuration.

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