# TF Series

Thin Film Deposition Systems





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



Planetary



Rotary with Heating, Biasing and Z-shift options



Knudsen Planetary



**Planar 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

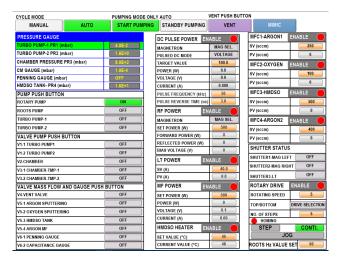
BASE PRESSURE Up to 10<sup>-7</sup> mbar

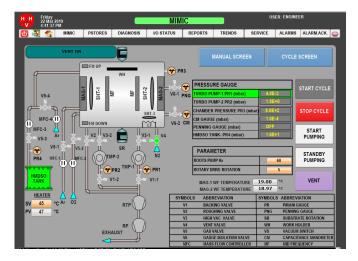
SUBSTRATE SIZE Maximum up to a 600 mm diameter

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  $\pm$  5 % as standard. Custom designed configurations to get better than  $\pm$  3 %.

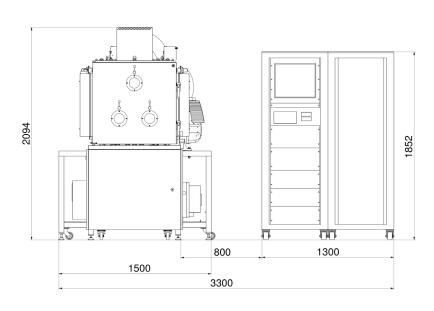
### FEATURES

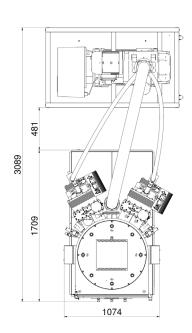
#### APPLICATIONS

- 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

- 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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