KORVUS TECHNOLOGY

SAMPLE STAGES

Choosing the correct sample stage for a process is as important as choosing the correct deposition method. The features of the stage can affect the uniformity, the morphology and the resulting film composition.

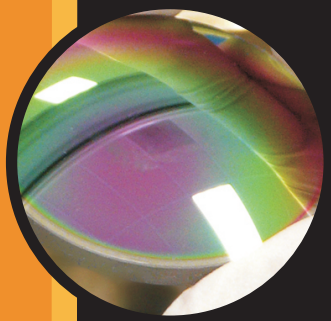
The HEX base system is shipped with a static sample stage which can accommodate samples up to 4" in diameter. Included with the stage are sample holders for 4" samples and for multiple smaller samples. All sample stages can be equipped with either a manual or a motor-driven shutter and feature a convenient set of mounting posts on the system to allow the stage to be securely mounted when replacing samples without needing to clear room on desks or workbenches.

Sample rotation/heating
The stage may be upgraded to one which incorporates sample rotation and heating. The rotation (0, 2-20rpm as standard) improves the film uniformity dramatically and is recommended for samples with dimensions greater than 15mm and/or where good uniformity is important. The stage has options for heating to 300°C or 500°C which will result in improved film morphology for some materials.

Sample Cooling
A water-cooled stage can be employed to reduce unwanted temperature-rise in sensitive samples such as during the coating stage in lift-off processes.

4" Sample Stage

Rotating/heating

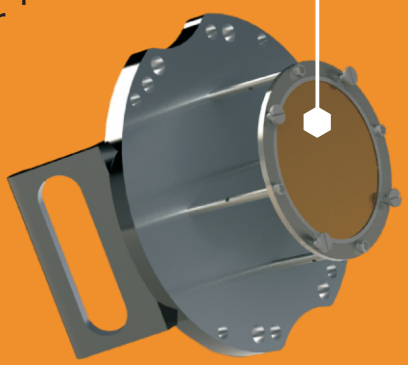


Water-cooled

DC Bias Option

Simple operation

4" Sample holder



Stage mounting posts for easy sample loading

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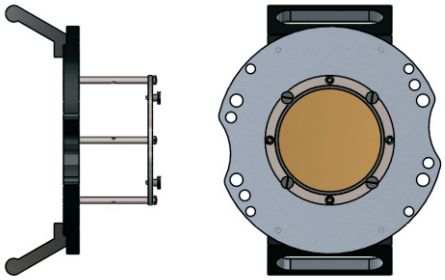
Technical Specifications

Sample Stages

Static Table

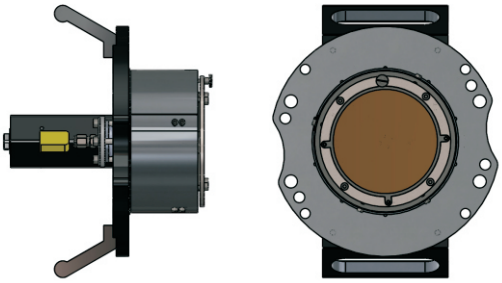


The static sample table is delivered as part of the Hex base system. The table accepts up to 4" wafers and multiple smaller samples.

Options

- 2" sample adapter plate
- manual/automatic shutter

Rotating/Heated Table



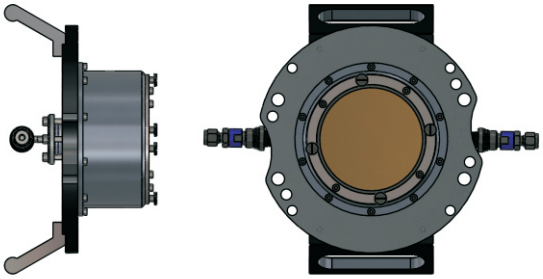
The rotating (and optional heating) sample stage dramatically improves deposition uniformity and is recommended for samples >15mm

- 2-20rpm rotation (6-60 optional)
- K-type thermocouple

Options

- 300°C heating option
- 500°C heating option
- manual/automatic shutter
- DC sample bias

Cooled Table



The water-cooled stage allows temperature-sensitive samples to be coated without danger of thermally-induced damage.

Options

- 2-20rpm rotation
- manual/automatic shutter

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