

Sample Manipulators



A full line of MBE Sample Manipulators and Preparation Stages are available for wafers from 1" to 8" in diameter. All have rotational capability, XYZ motion and heating to 1200 °C. A wide range of heating elements and thermocouple types are offered, with an optional built-in master shutter.

Specifications

Substrate Size.....	3"-8"
Flange.....	10" min CF
Temperature Range.....	1000°C
Thermocouple.....	Type C
Temperature Uniformity.....	± 1%
Azimuthal Rotation with Motor.....	0-60 rpm
Filament Material.....	Graphite
Power Supply.....	1kW/5kW
Bakeout Max. Temperature.....	200°C
Options.....	Substrating Biasing Motorized Azimuthal Rotation Custom Lengths 1200° C Upgrade Master Shutter Low Wobble

X-Y Translation

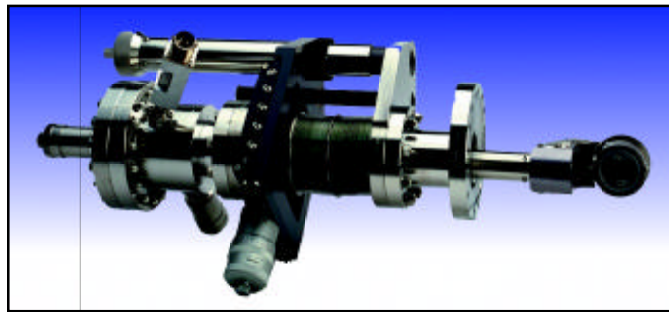
- Resolution .001
- Repeatability .001
- Backlash 0
- Travel ± 0.5"

Z Translation

- Resolution $\frac{1}{32}$ or 1mm scale
- Repeatability $\frac{1}{32}$ or 1mm
- Backlash 0
- Travel 4.0"

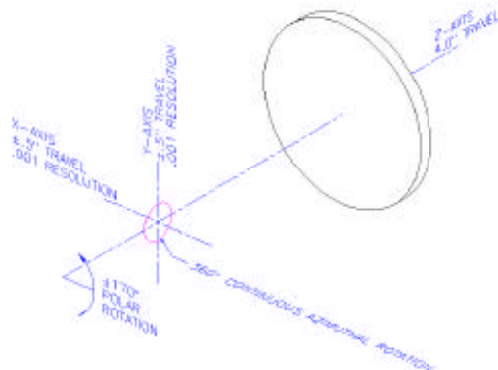
Azimuthal Rotation

- Resolution 1.25°
- Backlash <1°
- 360° Continuous



Specifications

Substrate Size.....	Up to 3"
Flange.....	4.5" min CF
Temperature Range.....	1000°C
Thermocouple.....	Type C
Temperature Uniformity.....	± 1%
Azimuthal Rotation with Motor.....	0-15 rpm
Filament Material.....	Graphite
Power Supply.....	1kw 40Vdc-25 A
Bakeout Max. Temperature.....	200°C
Options.....	Substrating Biasing Motorized Azimuthal Rotation Custom Lengths 1200° C Upgrade



A full range of options are available. For more information or to request a pricing on our sample manipulators. Please contact us at 952-934-2100 or e-mail us at svta@svta.com.