UHV WobbleStick

LINEAR / ROTARY AND ANGULAR MOVEMENT IN HV or UHV

- **Strong magnetic** coupling
- Bakeable to 250°C
- **Hydroformed bellows** give reliable seal
- **Constructed of** all UHV-compatible material
- Linear rotation angular motions
- Handles flag-style plates, pucks & sample stubs
- **Customizable**

Typical Applications

A wide range of uses include:

- **MBE** substrate exchange
- **Operating shutters**
- Any short simple transfer



3 Axis MCTS Shown with Custom Sample Gripper for Discs

he Model MCTS, Magnetically-Coupled WobbleSticks are an economical way to perform simple linear / rotary / angular motion within a vacuum system. Robust and reliable, these WobbleSticks reduce the risk of leaks by eliminating the use of edge welded bellows.

Rare earth magnets provide a strong magnetic coupling. This completely UHV-compatible unit is bakeable to 250°C with the external magnet carriage assembly removed.

With customer specified linear travel and an angular tilt of ±15°, WobbleSticks with one, two or three axis of motion can operate a variety of grippers and end-effectors including flag style sample holders.

A complete family of UHV Precision Magnetic Manipulators are available to perform more complex linear and/or rotary motions under vacuum. Call us to discuss your requirements and request datasheets with specifications.

SPECIFICATIONS

Material	
Flange, outer tube	and shaft 304ss
Seals	Hydroformed ss Bellows
Rare earth magnet	s SmCo
Vacuum range	1 x 10-11 Torr
Bakeout temperature	e 250°C magnet removed
	150°C magnet on
Linear force	8 lbs (35.58N)
Angular movement	<u>+</u> 15°
Standard mounting	2.75" OD CFF
Weight	Approx. 2 lbs
Dimensions	See drawing
See website or call us for complete dimensions.	

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