

OCTOS™

Robotic Cluster Tool Distribution Vessel



Kurt J. Lesker®
Company

PROCESS EQUIPMENT™
DIVISION

Applications

- The OCTOS™ five-sided robotic cluster tool facilitates multi vessel in-vacuum substrate transfer-ideal for production and pilot production applications.
- Fully automated with recipe control and is designed to accept standard, off the shelf system modules. In addition, fully interconnected, independent control of each vessel can be supplied, becoming a true multi-user installation.

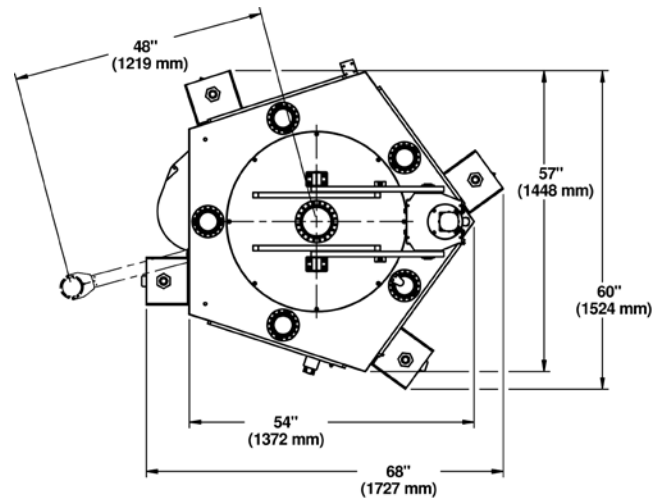
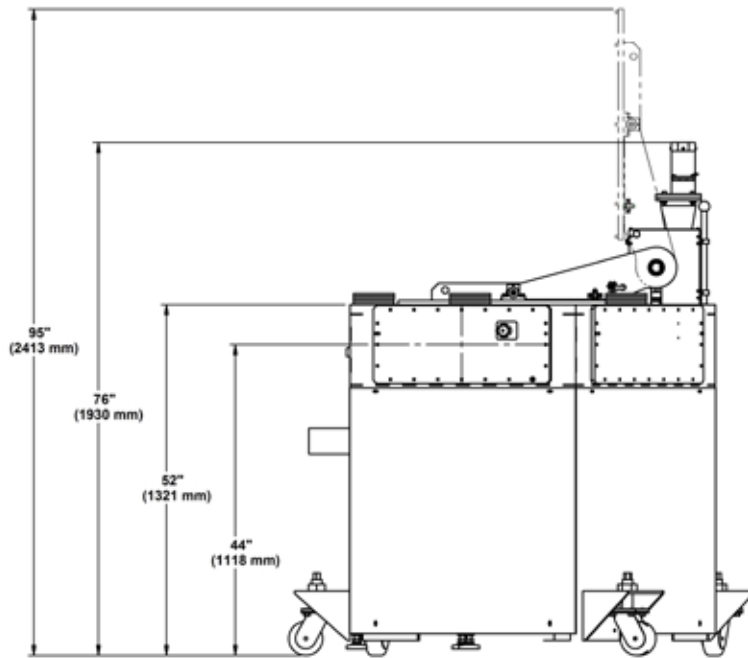
Features

- Five degree of freedom servo-controlled robot that interacts with cassettes and process modules
- Stainless steel vessel construction with hinged top plate
- Stand alone framework
- CTI CT-8 cryogenic hi-vacuum pumping
- Accommodates up to 12" (300 mm) diameter substrates
- Fully automated with recipe control
- MESC-SEMI rectangular ports

Options

- External dedicated load lock chamber
- External single or multi wafer storage
- Glovebox integration

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Dimensions Approximate

Specifications

Number of Transfer Ports	8
Transfer Mechanism	GB9 Precision Transport Robot
Mechanism Control	DSP Based with GPR Technology™
Cycle Time	20 sec
Substrate Size (max)	4" (100 mm) Diameter or Square
R-axis (vessel center to transfer fork center)	48" (1219 mm) with 6" Transfer Forks
Transfer Height (from floor)	44" (1118 mm)
Z-axis (vertical)	3" (75 mm)
Linear Repeatability	±.001" (.025 mm)
Angular Repeatability	±.001" (.025 mm)
Vertical Repeatability	±.001" (.025 mm)
Payload	5 lb (2.27 kg)
Internal Wafer Storage	No
Load Lock Compatible	Yes
Vacuum Pumping	CTI CT-8 3000 l/sec Cryo Pump with Dry Backing Pump
Base Pressure (CDE)	5 X 10 ⁻⁸ Torr
System Control	PC-Based Control System (Windows XP)
Available Certifications	NRTL, CSA, CE
Overall Dim (approx)	60" X 68" X 76" high (1524 mm X 1727 mm X 1930 mm)
Weight (approx)	4,100 lbs (1860 kg)

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