

# SUBSTRATE DISTRIBUTION TOOLS

## Product Comparison Guide

**Kurt J. Lesker**  
Company

**PROCESS EQUIPMENT™**  
DIVISION



**QDV 450**



**QDV 450R**



**OCTOS™**

Number Transfer Ports	4	4	8
Transfer Mechanism	Schneeberger Rail System	Genmark AVR-3000 Robot	Genmark GB9 Robot
Mechanism Control	DC Servo Motor	Digital Signal Processing	Digital Signal Processing with GPR Technology™
Cycle Time	300 sec	15 sec	20 sec
Substrate Size (max)	6" (150mm)	6" (150mm)	12" (300mm)
R-axis (vessel center to transfer fork center)	35" (889mm) with 6" transfer forks	34" (864mm) with 6" transfer forks	48" (1219mm) with 6" transfer forks
Transfer Height (from floor)	44" (1118 mm)	44" (1118 mm)	44" (1118 mm)
Z-axis (vertical)	N/A	1.00" (25.4mm)	3.00" (76.2mm)
Linear Repeatability	N/A	±.001 (.025mm)	±.001 (.025mm)
Angular Repeatability	N/A	±.001 (.025mm)	±.001 (.025mm)
Vertical Repeatability	N/A	±.001 (.025mm)	±.001 (.025mm)
Payload	1 lb (454 g)	2 lbs (907 g)	5 lbs (2268 g)
Internal Wafer Storage	no	no	no
Load Lock Compatible	yes	yes	yes
Glove Box Compatible	yes	yes	yes
Vacuum Pumping	285 l/sec Turbo Pump with Dry Roughing/Backing Pump	285 l/sec Turbo Pump with Dry Roughing/Backing Pump	CTI CT-8 1500 l/sec Cryo Pump with Dry Roughing/Backing Pump
Base Pressure (CDE)	5 x 10 <sup>-7</sup> Torr	5 x 10 <sup>-7</sup> Torr	5 x 10 <sup>-8</sup> Torr
System Control	PC-Based Control System (Windows XP)	PC-Based Control System (Windows XP) with Recipe Control	PC-Based Control System (Windows XP) with Recipe Control
Overall Dim (approx)	32" X 32" X 59" high (813mm X 813mm X 1499mm)	32" X 32" X 59" high (813mm X 813mm X 1499mm)	60" X 67" X 75" high (1524mm X 1702mm X 1905mm)
Weight (approx)	1200 lbs (544 kg)	1300 lbs (590 kg)	4100 lbs (1860 kg)

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**Kurt J. Lesker**  
Company

[www.lesker.com](http://www.lesker.com)

Kurt J. Lesker Company  
United States  
412.387.9200  
800.245.1656  
salesus@lesker.com

Kurt J. Lesker Canada Inc.  
Canada  
416.588.2610  
800.465.2476  
salescan@lesker.com

Kurt J. Lesker Company Ltd.  
Europe  
+44 (0) 1424 458100  
saleseu@lesker.com

Kurt.Lesker (Shanghai) Trading Company  
科特·莱思科(上海)商贸有限公司  
Asia  
+86 21 50115900  
saleschina@lesker.com

