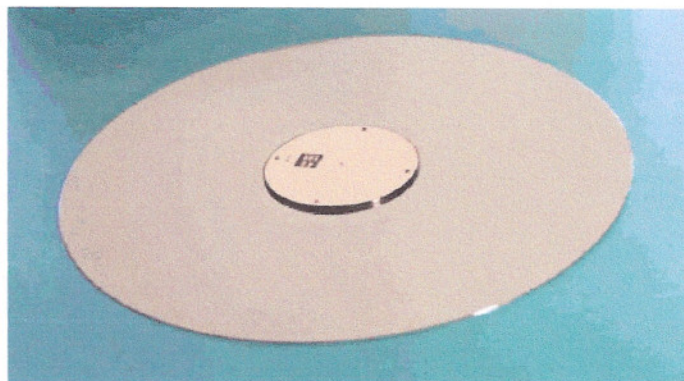




### ◀ Honeywell Analytics

**V**ertex is a multi-point toxic gas monitoring system that provides 8-72 points of continuous monitoring of gases used in semiconductor operations. Despite its compact size, it can effectively monitor large areas; sampling points can be placed up to 400 ft from the system. The system offers detection down to ppb levels and uses a proof of detection colorimetric paper-based tape technology to meet ESH requirements.



### InnerSense ▲

**T**he Smart Wafer was created for troubleshooting and monitoring wafer handling. An electronic circuit that contains an accelerometer is mounted on a regular bare silicon wafer and records the vibrations along the wafer path in the process tool. The signal is then downloaded and analyzed against a known fingerprint. It is also being used as a regular monitor and a proactive tool for effectively planning and executing mechanical maintenance. The Smart Wafer device also contains a sophisticated algorithm to detect differences between the current test and the tool's historical data. A built-in SPC tool indicates deterioration of moving parts.

## Semiconductor Processing Tools

### Vacuum Equipment & Services for Demanding Applications



New Throttling Valves

**M**DC now offers a full line of High-Cycle, Throttling Butterfly Valves (TBV) exclusively developed from a proprietary process controller architecture. High performance, motion control,

proven valve design and a powerful control algorithm make this an excellent cost-effective alternative for both OEM and end users alike.

An accompanying next generation (using adaptive control algorithms) Process Controller is available as well, which features a small footprint, high-speed I/O's, 24-bit analog, and



Complex Gas & Chemical Delivery System Assembly



MDC Semisystems provides Equipment & Services for Semiconductor manufacturing applications including the manufacturing of complex gas delivery and chemical delivery system assemblies. Capabilities include welding of Ultra Purity gas lines, vacuum weldments, tube bending & assembly.

#### Electrical Feedthroughs and Optical Viewports for Ceramic-to-Metal Seal Vacuum Applications



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ISI introduces the industry's 1st hermetic USB feedthrough that allows for the user to connect a feedthrough directly to a computer with a high speed

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