

FOR IMMEDIATE RELEASE
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**VACUUM COMPONENTS AND EQUIPMENT SUB-SYSTEMS MARKETS
TOTAL \$2.6 BILLION IN 2003**

Semiconductor applications are largest segment

Albuquerque, NM, September 8, 2004 – Today the Working Group of the International Statistics on Vacuum Technology (ISVT) announced global vacuum components and equipment sub-systems sales totalled \$2.6 billion in 2003. The Working Group represents members of the Association of Vacuum Equipment Manufacturers International (AVEM), European Vacuum Technology Association (EVTA) and Japan Vacuum Industry Association (JVIA) in cooperation with Semiconductor Equipment and Materials International (SEMI).

The largest vacuum component market segment is semiconductor process vacuum with 38 percent, followed by industrial vacuum at 12 percent, process vacuum at 12 percent, instrumentation manufacturers at 11 percent and thin-film deposition (non-semiconductor) vacuum at 10 percent. The vacuum components market includes pumps and pumping packages, instrumentation, hardware including valves and couplings and after-sales including spare parts and service.

2003 Global Vacuum Components and Equipment Sub-systems*		
Segment	US\$ Billions	Percentage (%)
Semiconductor Process Vacuum	0.99	38
Industrial Vacuum	0.31	12
Process Vacuum	0.31	12
Instrumentation	0.29	11
Thin-film Deposition (non-semiconductor) Vacuum	0.26	10
Others	0.44	17
Total	\$2.6 billion	100%

* Note: Reporting companies represent approximately 80 percent of the global market.

The statistics are based on a quarterly member data collection program, in which suppliers report actual sales of components by segment and region. Membership in one of the vacuum associations (AVEM, EVTA or JVIA) is a prerequisite for participation, and reporting companies represent approximately 80 percent of the global supply basis for vacuum components and equipment sub-systems.

For more information about the organizations listed above, please visit their Web sites:
AVEM at www.avem.org; EVTA at www.vdma.org, JVIA at www.jvia.gr.jp and SEMI
at www.semi.org.

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