

"Inspection is our passion, control is our mission and Your quality our victory"

NEWS RELEASE

Vi TECHNOLOGY launches the REVEAL Series @ SEMICON Taiwan 2009 booth 520, a new inspection solution for the semiconductor industry



Saint-Egrève, France, 2009, September 18 - [Vi TECHNOLOGY](#) introduces the [REVEAL Series](#), an Automated Optical Inspection equipment for the [Semiconductor industry](#). This equipment will drastically decrease the ppm level of defective parts delivered to customers and improve manufacturing cost at the same time. This versatile AOI is able to detect various sizes of foreign materials or scratches and measure die positioning, rotation, tilt, and other parameters when required.

REVEAL MEMS equipment will be demonstrated for the first time at [SEMICON Taiwan 2009](#) from September 30 to October 2, **Hall 1 Booth 520**. At the same time, an innovative business model will be proposed through our "Try and Share" program. This program will show a clear measurement of the [equipment benefits](#) by allowing a "customer on-site trial" of the machine to evaluate it in the MEMS packaging assembly real production environment. With an affordable rental fee, there is time to evaluate the benefits of quality and cost reductions before making the decision to invest in the equipment.

[Vi TECHNOLOGY®'s REVEAL MEMS](#) solution, based on a 15 years of expertise in AOI, is an in-line thorough inspection machine for MEMS packaging processes. With high flexibility and best-automated inspection capabilities at production speed, the REVEAL MEMS Series contribute to decrease the assembly process costs and solve customers mission-critical issues.

REVEAL MEMS equipment detects foreign materials and measures die structure characteristics without affecting the production speed.

Designed with a robust field-proven granite-based gantry for absolute stability, [REVEAL MEMS Series feature](#) high-accuracy axes and a brand new optical acquisition system with a sub-micron pixel size. It accurately detects any foreign material size larger than 3µm like Silicon, Alumina, human-related particles, etc... It ensures a perfect cleanliness of the MEMS before its encapsulation.

At the same time, REVEAL MEMS Series inspects the structure integrity of the MEMS die by checking missing or damaged beams or wires as well as its positioning (X, Y and rotation) within the package.

Vi TECHNOLOGY's team implemented the measurement of the die-tilt during the AOI process because they knew it was critical to MEMS sensors (such as accelerometers or gyroscopes) to fulfill the application needs.

With the REVEAL MEMS Series, the costs related to assembled materials and process steps only apply to "known-good-dice". The automated optical inspection accuracy and repeatability replaces and improves costly and space-consuming manual inspection in a very efficient way.


VIT

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"Semiconductor packaging processes are currently under high cost pressure. While no compromise can be done on production quality, the volume ramp-up of best-selling MEMS devices such as inertial sensors requires new ways of performing optical inspection", said Jean-Yves Gomez, Vi TECHNOLOGY's CEO.

"By combining high inspection accuracy for micron-level defect detection and high production throughput, Vi TECHNOLOGY's REVEAL Series provides a breakthrough solution to packaging processes. It enables the replacement of the costly and non-repeatable manual inspection. REVEAL MEMS Series help to maintain or improve production quality while reducing assembly costs, and we are seeing a great welcome for this new product in the industry", he added.

The REVEAL MEMS equipment is a [turnkey solution](#) allowing either standalone use for small production batches or use as an integrated in-line solution with customized handling equipment. It can therefore be adapted to any products type and size as well as any carriers' kind such as wafers, boats, trays, strips, etc... Proposed with a factory-backed extended portfolio of [warranty, support and services](#) contracts, the REVEAL MEMS AOI Series is a best-in-class solution to decrease MEMS assembly costs while highly increasing the quality in the production line.

Vi TECHNOLOGY® REVEAL new product line and technology is opening the path to new inspection capabilities for other semiconductor devices such as imagers, silicon microphones, microfluidic devices or various IC packaging processes. It brings significant benefits in terms of materials, capital costs reduction and quality improvement.

"Sustainable Inspection Technology..."

About Vi TECHNOLOGY

[Vi TECHNOLOGY](#) is a worldwide global supplier in designing, manufacturing, and supporting a wide range of innovative Automated Optical Inspection equipment and software solutions for a broad range of applications. These applications include PCB assembly, back-end semiconductor production, incoming inspection and process control.

Our goal is to create value to customers by developing technologies answering to the evolution of our common market. Our R&D program is focusing on enhancing existing products as well as bringing technological breakthrough to reach a sustainable excellence. Our [customers' market differentiation](#) is a key issue. Each of our clients is different and we must be able to growth in their differentiation.

With 15 years of experience, our offering is adapted to the most demanding requirements of in terms of accuracy, repeatability, speed, and quality. We confirm our leadership in the AOI market and we propose turnkey solutions to maximize the Return-On-Investment and decrease the cost-of-ownership in manufacturing plants. Our equipment is supported by a world-class level of service with fast response time through our [24-hour hotline](#). We also offer a strong network of 200 fully trained [Agents and Distributors](#) to ensure quick relay of issues to our offices.

We serve a large number of customers including the Number 1 player in the automotive electronics market, the Number 1 contract electronics manufacturer, and the Number 1 player in the mobile phone industry.

Our mission is to serve our customers worldwide to reach our Total Customer Satisfaction goals.

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