Koh Young, the Industry Leader in True 3D measurement-based Inspection Solutions, is Exhibiting at the Long-awaited Productronica 2021 in Germany

Seoul, South Korea – Koh Young, the industry leader in True 3D measurement-based inspection solutions, will highlight live demonstrations of its award-winning inspection and measurement solutions at Productronica 2021, the highly-anticipated trade fair in Messe München on November 16-19, 2021 in Munich, Germany.

This world's leading international trade fair occurs every two years and despite COVID-19 circumstances, the Bavarian Region of Germany allowed exhibitions to take place around September. Messe München has developed a comprehensive safety and hygiene concept in close cooperation with the relevant authorities to provide a safe environment for attendees and exhibitions. Both will be able to enjoy the show and meet face-to-face after a lengthy lockdown. Koh Young will highlight ten award-winning solutions at Booth 377 Hall A2. Join our booth at Productronica 2021 to find out more.

1. **Neptune C+:** *Award-winning True 3D In-Line Dispensing Process Inspection (DPI) Solution*
   - **True 3D Profiling:** Using patented technologies, the Neptune C+ is the industry's first 3D inline DPI with thickness measurement for transparent material. The system allows manufacturers to explore the depths of its process to accurately find defects with 2D, 3D, and cross-section views.
   - **AI-Powered, Bubble Inspection Capabilities:** With its proprietary machine learning technology, the Neptune C+ offers enhanced inspection capabilities enabling autonomous bubble inspection without manual teaching or endless fine-tuning.

2. **Neptune T:** *Industry's First 3D Optical Measurement for Transparent Materials*
   - **Non-Destructive 3D Inspection of Coating Thickness:** The Neptune T is the industry's first 3D optical measurement instrument for transparent materials. Like the Neptune C+, it is available for coating, underfill, epoxy, glue, and bonding material inspection.
   - **Accurate Thickness Measurement:** The Neptune T measures the thickness of transparent and semi-transparent materials using multiple inspection points.

3. **Zenith 2:** *Revolutionary True 3D AOI Delivering Incomparable Capabilities*
   - **Powerful Side-View Cameras:** The Zenith 2 incorporates high-resolution side-view cameras to quickly identify, measure, and analyze potential defects on hidden or obscured components.
   - **Self-Diagnosis:** Predictive maintenance can reduce process interruptions, enhance equipment uptime, and ensure machine performance to assist operators.

4. **Zenith UHS:** *Industry's Fastest True 3D AOI Solution*
   - **Ultra-High-Speed Inspection:** The Zenith UHS measures components at even higher speed than before without compromising inspection accuracy and repeatability across a wide range of production defects.
   - **Advanced Tall Component Inspection:** The Zenith UHS overcomes shadow challenges by incorporating a multi-projection Moiré interferometry system to provide advanced component inspection.

5. **Zenith Alpha:** *Best Value True 3D Automated Optical Inspection Solution*
    *   **KAP (Koh Young Auto Programming):** Using the power of our own AI engine and machine learning, the innovative geometry-based KAP software reduces programming to minimize time and reduce costs.
    *   **Whole-board Foreign Material Inspection (WFMI):** Inspection goes beyond components and solder joints. The Zenith Alpha combines 2D with True 3D to identify foreign material such as chips, dust, burrs, solder balls, chips, and other debris leading to costly field failures.

6. **KY8030-3:** *Industry's Fastest True 3D Solder Paste Inspection Solution*
    *   **Unmatched Inspection Speed:** The KY8030-3 blends Koh Young's pioneering technologies to provide unmatched inspection speeds. The combination of this system's throughput and accuracy makes it suitable for a vast range of applications.
    *   **Automated Solder Paste Dispensing:** The KY8030-3 can automatically dispense paste with its Auto-Rework option. The high-precision dispensing system eliminates costly mistakes due to insufficient solder printing leading to electrical opens, weak joints, and poor wetting.

7. *aSPIre3:* *Industry's Highest Performing True 3D SPI Solution*
    *   **The Highest Standard in Metrology-level 3D Inspection:** Incorporating proprietary, multi-direction projection technology to deliver industry-leading accuracy and repeatability to measure the 0201M components in high-volume production.
    *   **Self-Diagnosis:** Unique modules offering automated machine check-ups on items such as light intensity, PZT feed, height accuracy, and XY offset to aid operators with predictive maintenance.

8. *Meister D:* *Industry's Leading Inspection Systems for Advanced Packaging*
    *   **Die & MLCC Inspection:** Using integrated measurement with defect analysis software incorporating advanced optics and AI engines, the Meister D detects micro cracks, chipping, and foreign material.
    *   **Mini-LED Application**: The combination innovative vision algorithms and high-resolution optics has qualified the Meister D for mass production use by major foundries and mini-LED companies.

9. **KY-P3:** *Breakthrough in 3D Automated Pin Inspection Solutions*
    *   **Versatile Handling:** Back-end board handling is challenging, yet Koh Young provides a perfect set of versatile handling options. With multiple board and carrier handling solutions for multiple types of PCBs, connectors, terminals, and final assemblies with housing pins.

10. **KSMART Solutions:** *True Smart Factory Solution*
    *   **Turning Data into Insights:** AI-powered KSMART solutions help automate process control, while focusing on data management, analysis, and optimization. It collects data from across the factory for defect detection, real-time optimization, enhanced decisions, and traceability to improve production, increase quality, and lower costs by eliminating variances, false calls, and escapes.
        *   Converts Data into Knowledge for effective and quality-driven actions
        *   Delivers an AI-powered process analysis and optimization tool
        *   Achieves an autonomous process optimization facility

Koh Young is excited to reconnect and collaborate in-person at Productronica, while ensuring we implement and uphold COVID safety protocols for your health and ours. To learn more about these award-winning technologies from Koh Young, you can register for Productronica 2021 at https://www.productronica.com/en/. If you cannot attend the exhibition, you can still learn more about our award-winning solutions at kohyoung.com.

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About Koh Young

Established in 2002, Koh Young pioneered the market by launching the first 3D Solder Paste Inspection (SPI) system using a patented dual-projection Moiré technology. Since then, it has become the global leader in 3D measurement-based SPI and Automated Optical Inspection (AOI) equipment for the electronics industry. Based on its True3D™ measurement-based inspection technology, Koh Young has developed new solutions for challenges with Machining Optical Inspection (MOI), Dispensing Process Inspection (DPI), and Semiconductor Packaging Inspection (MEISTER Series), as well as branching out to Medical Robotics for brain surgery (KYMERO). Through its technological innovations, Koh Young has secured thousands of global customers, and maintains the largest global market share in the SPI and AOI markets. Additionally, by adopting its user-centric R&D activities, it continues to use core competencies and develop innovative solutions for new and existing markets. Its activities stem from the corporate headquarters in Korea to its sales and support offices in Germany, Japan, Singapore, Vietnam, Malaysia, China, Brazil, Argentina, Canada, Mexico, and the United States. These local facilities ensure it keeps in close contact with the market, and more importantly, its growing customer base to provide access to an award-winning network of inspection and measurement experts. Learn why so many electronics manufacturers trust Koh Young for reliable inspection at kohyoung.com.