



Koh Young Neptune C+ Wins the Circuits Assembly NPI Award for Best New Process Control Tool

Atlanta, GA – Koh Young, the industry leader in True3D™ measurement-based inspection solutions, is excited to announce Circuits Assembly recognized the new Neptune C+ for dispensing process inspection (DPI) with the distinguished Circuits Assembly New Product Award (NPI) for Best New Process Control Tool in a virtual ceremony on 24 February 2022.

“It is especially gratifying that our Neptune offering won the NPI Award,” commented Joel Scutchfield, General Manager of SMT Operations at Koh Young America. “This continued recognition acknowledges our passion to deliver innovative inspection solutions. Thank you.”

Conformal coatings protect electronics from moisture, debris, corrosion, and adds mechanical stability to reduce failures and improve harsh environment reliability. But what if the coating is too thin or defective? Failure!

Traditional laser-confocal and electron microscopes only measure three-dimensional shapes and cannot inspect transparent materials, because the penetration depth is just too shallow. Optical systems using UV light are only effective for simple 2D presence or absence.

The patented L.I.F.T. Technology (Laser Interferometry for Fluid Tomography) delivers non-destructive 3D inspection to precisely measure wet or dry fluids, including the material thickness – at production speed. Based on low-coherence interferometry, L.I.F.T. uses Near-Infrared Light (NIR) to capture images through multiple layers of a fluidic structure regardless of transparency.

As such, the Neptune is the industry’s first 3D optical inline measurement solution for transparent material inspection. With its integrated flipper, intuitive programming, and machine-learning algorithms, Neptune allows manufacturers to take a deep dive into their dispensing process using 2D, 3D, and cross-section views to find defects.

With advanced algorithms to teach inspection parameters, the Neptune accurately measures materials for coverage, thickness, and consistency with user-defined threshold settings. It also inspects bubbles, cracks, and other defects – even splash marks in “keep out” areas.

Besides coatings, it measures underfill, epoxy, bonding, and more to deliver exact measurements of transparent, translucent, and pigmented materials. The system is currently suited for acrylic, silicone, polyurethane, and hybrid coatings, plus parylene. The Neptune is the industry’s first True3D optical measurement solution for transparent material inspection and solves a long-standing industry challenge.

To learn more about the Neptune and our other award-winning technologies, visit us at our regional website www.kohyoungamerica.com. There, you can request a remote online or live in-person demonstration.



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About Koh Young Technology, Inc.

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 innovative solutions for challenges with Machining Optical Inspection (MOI), Dispensing Process Inspection (DPI), and Semiconductor Packaging Inspection (MEISTER Series). Through its technology 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 leverage core competencies and develop innovative solutions for new and existing markets. Its activities stem from the corporate headquarters in Korea to its global sales and support offices in Europe, Asia, and the Americas. 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.

For More Information

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