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KLA Launches New Portfolio of Automotive Products to Improve Chip Yield and Reliability

New Inspection Systems and Innovative Inline Screening Solution Help Fabs Improve Quality

MILPITAS, Calif., June 22, 2021 /PRNewswire/ -- Today, [KLA Corporation](#) (NASDAQ: KLAC) announced the launch of four new products for automotive chip manufacturing: the **8935** high productivity patterned wafer inspection system, the **C205** broadband plasma patterned wafer inspection system, the **Surfscan® SP A2/A3** unpatterned wafer inspection systems and **I-PAT®** inline defect part average testing screening solution. The automotive industry is focused on innovations in electrification, connectivity, advanced driver assistance and autonomous driving. This means vehicles require more electronics, which drives the demand for semiconductor chips. With chips at the core of vehicle operations and safety applications, reliability is critical and automotive chips must meet strict quality standards.



"Today's vehicles include thousands of semiconductor chips that sense surroundings, make driving decisions and control actions," said Ahmad Khan, president of the Semiconductor Process Control business unit at KLA. "These chips cannot fail – a fact that has led chipmakers to pursue new strategies to find and mitigate reliability-related defects in the fab, well before the chips are integrated in vehicles. Tailored for fabs producing automotive chips, our new products detect potential reliability defects at the source and provide an innovative solution for inline screening. These actions help fabs achieve production of high quality, high reliability chips at high yield to maximize their output."

The three new inspectors form a complementary defect discovery, monitoring and control solution for larger design node chip manufacturing in the automotive industry. The **Surfscan SP A2/A3** unpatterned wafer inspectors incorporate DUV optics and advanced algorithms to produce the sensitivity and speed required to identify and eliminate process defects that can cause automotive chip reliability issues and to ensure process tools are operating at peak performance. For R&D and production ramp, the **C205** patterned wafer inspector utilizes broadband illumination and NanoPoint™ technology for high sensitivity discovery of critical defects, helping speed optimization of new processes and devices. During high volume

manufacturing, the **8935** patterned wafer inspector employs new optical technologies and the DefectWise® AI solution to capture a wide variety of critical defects at a low nuisance rate for fast and accurate identification of process excursions that can affect final chip quality.

I-PAT is an innovative inline screening solution that runs on KLA inspection and data analytics systems. I-PAT begins by extracting defect characteristics from data collected for all wafers at critical process steps by the high speed 8 Series inspectors, including the 8935, or the Puma™ laser scanning inspectors. I-PAT then leverages customized machine learning algorithms on the SPOT™ production platform and the statistical analysis capabilities of the Klarity® defect management system to identify outlier defect populations so at-risk chips can be removed from the supply chain.

In addition to the development of new products tailored for automotive chip manufacturing, KLA continues to collaborate closely with the automotive industry. From KLA's membership in the [Automotive Electronics Council \(AEC\)](#), the organization that sets qualification standards for electronic components in the automotive industry, to the company's [second headquarters in Ann Arbor, Michigan](#), KLA is committed to helping ensure the automotive industry achieves strict electronics quality standards.

"Our new products introduced today join our comprehensive portfolio of inspection, metrology, data analytics and process systems that support multiple parts of the automotive electronics ecosystem," added Oreste Donzella, executive vice president of the Electronics, Packaging and Components (EPC) business unit at KLA. "Each one of these products plays a key role in ensuring high yield, reliability and performance of the chips, components, printed circuit boards and displays that comprise automotive electronics."

For additional details about the 8935, C205, Surfscan SP A2/A3 and I-PAT, including key features, applications and markets served beyond automotive, please refer to the [product fact sheets](#). To maintain their high performance and productivity, these new systems are backed by KLA's global [comprehensive service network](#). To learn more about KLA's automotive offerings, please visit the [KLA Advance](#) newsroom.

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About KLA:

KLA Corporation develops industry-leading equipment and services that enable innovation throughout the electronics industry. We provide advanced process control and process-enabling solutions for manufacturing wafers and reticles, integrated circuits, packaging, printed circuit boards and flat panel displays. In close collaboration with leading customers across the globe, our expert teams of physicists, engineers, data scientists and problem-solvers design solutions that move the world forward. Additional information may be found at [kla.com](#) (KLAC-P).

Forward Looking Statements:

Statements in this press release other than historical facts, such as statements regarding the expected performance of the 8935, C205, Surfscan SP A2/A3 and I-PAT systems, are forward-looking statements, and are subject to the Safe Harbor provisions created by the Private Securities Litigation Reform Act of 1995. These forward-looking statements are based on current information and expectations and involve risks and uncertainties. Actual

results may differ materially from those projected in such statements due to various factors, including delays in the adoption of new technologies (whether due to cost or performance issues or otherwise), the introduction of competing products by other companies or unanticipated technology challenges or limitations that affect the implementation, performance or use of KLA's products, and other risk factors included in KLA's annual report on Form 10-K for the year ended June 30, 2020, KLA's quarterly report on Form 10-Q for the quarter ended March 31, 2021 and other filings by KLA with the Securities and Exchange Commission (including, without limitation, the risk factors described therein). KLA assumes no obligation to, and does not currently intend to, update these forward-looking statements.

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