

Press Release**Heraeus Printed Electronics and SUSS MicroTec Join Forces to Revolutionize High-Volume Semiconductor Manufacturing with Inkjet Technology**

Hanau/Garching, 5 March 2024 – Heraeus Printed Electronics GmbH and SUSS MicroTec have announced the signing of a Joint Development Agreement (JDA) to pave the way for digital inkjet printing of metallic coatings for semiconductor manufacturing. The partnership combines the core competences of both companies to enable digital printing solutions for mass production in the electronics industry for the first time.

Heraeus Printed Electronics, the worldwide only provider of a turnkey solution for digital inkjet printing on electronic components, offers metallic inks, deep process knowledge and printing systems. It complements the broad product portfolio of Heraeus to the electronics industry. The Prexonics® technology enables selective printing on different substrates for a wide range of applications such as shielding against electromagnetic interference (EMI), printing of conductive structures and metallization for heat dissipation.

"This collaboration represents the missing piece in the mosaic of scaling to mass production for us, having recently passed the important milestone of fulfilling the broad functional requirements of the semiconductor industry with our ground-breaking technology," said Franz Vollmann, Head of Heraeus Printed Electronics. "By combining our core expertise in metallic specialty inks and digital printing processes with the scaling competence of our strong partner SUSS MicroTec, we are setting a new industry standard for mass production in the semiconductor market."

SUSS MicroTec, known for its advanced equipment and process solutions for semiconductor manufacturing, brings its leading-edge automation platform and industrial inkjet production capabilities to the table. Their high-volume production equipment, JETx, designed to integrate various printhead and substrate technologies, expands the application potential of Heraeus' digital printing technology. SUSS MicroTec's high production capacity and excellent global sales and service network support the smooth transfer of the solution into high-volume manufacturing.

"The integration of Heraeus' breakthrough ink technology and digital printing capabilities with our robust automation platforms is a testimonial to our pursuit of excellence and innovation. We are confident that our combined efforts will result in unprecedented production efficiencies and costs in line with current and future market expectations," said Dr. Robert Wanninger, Senior Vice President Advanced Backend Solutions of SUSS MicroTec.

The scope of the collaboration calls for the development of equipment that integrates Heraeus' digital printing technology, image processing software and advanced ink technology into SUSS MicroTec's automation and JETx platform. The end goal is a state-of-the-art system with a competitive total cost of ownership (TCO) that not only sets new standards in the industry, but also aligns with Heraeus and SUSS MicroTec's vision of cost and performance optimization. The product of this partnership looks to redefine the boundaries of what is possible and push forward into a future where technology serves as the cornerstone for innovation and growth.

About Heraeus

The Heraeus Group is a broadly diversified and globally leading family-owned technology company, headquartered in Hanau, Germany. The company's roots go back to a family pharmacy started in 1660. Today, Heraeus bundles diverse activities in the Business Platforms Metals and Recycling, Healthcare, Semiconductor and Electronics as well as Industrials. Customers benefit from innovative technologies and solutions based on broad materials expertise and technological leadership. In the 2022 financial year, the group generated revenues of €29.1 billion (US\$30.6 billion*) with approximately 17,200 employees in 40 countries. Heraeus is one of the top 10 family-owned companies in Germany and holds a leading position in its global markets. Explore our turnkey solution at www.heraeus-printed-electronics.com.

About SUSS MicroTec

SUSS MicroTec is a leading manufacturer of system and process solutions for micropatterning in the semiconductor industry and related markets. In close collaboration with research institutes and industry partners, SUSS MicroTec drives the development of next-generation technologies such as 3D integration and nanoimprint lithography as well as key processes for MEMS and LED production.

With its global infrastructure for applications and service, SUSS MicroTec supports more than 8,000 installed systems worldwide. The headquarters of SUSS MicroTec is in Garching, near Munich, Germany. Additional information can be found at www.suss.com.

Media Contact Heraeus Bastian Ebeling

Marketing Manager
Tel.: + 49 6181 35 8087
E-Mail: Bastian.Ebeling@heraeus.com

Media Contact SUSS MicroTec Sven Köpsel

Vice President Investor Relations, Corporate Communications and Corporate Marketing
Tel.: +49 89 32007151
E-Mail: sven.koepsel@suss.com



from left to right:

Franz Vollmann, Head of Heraeus Printed Electronics

Dr. Klemens Brunner, President Heraeus Electronics

Burkhardt Frick, CEO, SUSS MicroTec SE

Dr. Robert Wanninge, Senior Vice President Advanced Backend Solutions, SUSS MicroTec