

Tooling solutions for current industry challenges

Mössingen, July 31, 2026 – From September 15 to 19, the SIMTEK Group, represented by the two manufacturers SIMTEK Präzisionswerkzeuge GmbH and Kaestner-Tools GmbH, will be exhibiting at AMB 2026 in Stuttgart. At Booth C36 in Hall 3, the two tooling specialists will showcase not only their comprehensive tooling ranges and specific application possibilities but also how they have addressed two key industry challenges: the rise in raw material prices - particularly for tungsten - and the growing need for process reliability in automated manufacturing processes. The focus will be on real-life applications, 3D-lasered chip-forming geometries, and the simmill 9W modular milling tool system. The SIMTEK Group will also highlight its processes and services at its booth.

“We’ll be demonstrating practical solutions to current challenges in metalworking: from reliable chip control to specific machining concepts for real components, all the way to strategies for more efficient use of carbide,” says Jeremia Geiger, CEO at SIMTEK AG responsible for Sales and Marketing, adding: “As the industry’s leading exhibition, the AMB provides us with the ideal setting for this, and we are once again very much looking forward to many interesting discussions with customers, partners, and other interested parties.”

Lasered chip-forming geometries

One of SIMTEK’s key topics at the exhibition are tools with 3D-lasered chip-forming geometries, which SIMTEK first presented to a broad audience at the AMB 2024. To achieve this, high-precision circumferential cutting edge geometries are applied to ground carbide cutting tools using a laser. This results in hybrid tool solutions that specifically combine the strengths of both processes, offering users a wide range of benefits. A key advantage lies in the increased process reliability achieved through optimized chip



SIMTEK Präzisionswerkzeuge GmbH
Mössingen, Germany
Fon.: +49 (0) 7473 9517-0
Mail: info@simtek.com
Web: www.simtek.com

Press kontakt:

Domenico Laurenza
Marketing
Fon.: +49 (0) 7473 9517-120
Mail: marketing@simtek.de

PRX Agentur für Public Relations GmbH
Ralf M. Haassengier
Kalkhofstraße 5
70567 Stuttgart
Fon 0711/71899-03/04
ralf.haassengier@pr-x.de
www.pr-x.de

control. "The increase in process reliability achieved with our lasered tools can be a decisive factor, especially for automated machining processes," explains Geiger. "In addition, lasered tools often offer an expanded range of functions, which can reduce process times or even eliminate the need for additional tools."

According to the CEO, close communication with customers is a crucial basis for the efficient design of 3D-lasered geometries. "To ensure an optimal design of a lasered geometry, close collaboration with the customer regarding material and cutting parameter settings, as well as other factors that influence the process, is essential. We therefore intend to make targeted use of our face-to-face discussions with our customers and partners at the AMB to further intensify this close communication by highlighting the resulting benefits for our customers."

High-Performance Modular Tooling System

The current cost situation in the raw materials sector continues to be a challenge for the industry. This makes it even more encouraging for Geiger that SIMTEK can offer a solution in the form of a modular milling tooling system that can come close to matching the performance of material-intensive monoblock tools. "With simmill 9W, we offer a system that, thanks to its modular design, requires significantly less raw material, yet comes very close to the performance of monoblock tools." The basis for this high-performance capability is a highly advanced toothing technology developed by the sister company Kaestner-Tools. The ground toothing offers very high stability in high-speed applications, along with very high precision in radial and axial runout, and minimal wear at the toolholder/insert interface.

Since the introduction of the system featuring the 12-edged simmill 9W4 variant with a cutting diameter of 50.0 mm and milling depths of up to 16.5 mm, new sizes have since been developed. "We now offer additional variants of this high-performance system as standard, including the simmill 9W1 with a cutting circle diameter of 28.0 mm and a maximum milling depth of 9.3 mm, as well as the simmill 9W5 with a cutting circle diameter of 63.0 mm and milling depths of up to 21.0 mm," reports Geiger. "At the AMB, we'll be



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www.pr-x.de

showcasing all currently available sizes and demonstrating how they can be used efficiently in production using specific components.” According to SIMTEK, additional sizes are expected to follow in the future.

Real Components and a VR Experience

The SIMTEK Group’s tools offer a wide range of possibilities across a variety of industrial sectors. “To give visitors a realistic impression of the tooling solutions from both SIMTEK and Kaestner, we’re using real components to demonstrate various example applications,” Geiger adds. In addition, visitors can interactively experience a tool in action through a virtual reality experience.

Processes and Services

The SIMTEK Group is also using the AMB 2026 to present not only its tooling solutions but also customer-focused processes and services to visitors. For example, visitors can receive information from experts of both manufacturers about the long-established priotool service - a system-guided express path through all in-house value chains designed to maximize the prioritized production of special tools. “With priotool, we offer SIMTEK Group customers predictable express production of tools that they urgently need in certain situations,” reports Evstratios Ountzidis, VP Sales & Marketing at SIMTEK AG and Authorized Signatory at SIMTEK Präzisionswerkzeuge GmbH, who helped develop and implement this conceptual digital approach.

In addition, topics such as tool regrinding and the switch from virgin plastic to recycled materials for tool packaging will be covered at the booth.

((Infobox))

SIMTEK Group Tools in Action!

In addition to its own exhibition presence, the SIMTEK Group will be demonstrating tools in action at the SPINNER Werkzeugmaschinenfabrik GmbH booth (Hall 4, Booth A31). A total of 13 custom-made tools from the two manufacturers, SIMTEK Präzisionswerkzeuge GmbH and Kaestner-Tools GmbH - including tools with 3D-lasered chip-forming geometries - will be used to



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Marketing
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70567 Stuttgart
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ralf.haassengier@pr-x.de
www.pr-x.de

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machine bicycle hubs live on one of Spinner's Microturn machines throughout all five days of the exhibition.

((Bilder))



Image 1: Jeremia Geiger (Image source: SIMTEK AG)

Caption: Jeremia Geiger, CEO of SIMTEK AG: "As the industry's leading exhibition, AMB provides us with the ideal setting for many interesting discussions with customers, partners, and interested parties."

Image Download: https://pr-x.de/fileadmin/download/202607-Jeremia-Geiger_Vorstand_SIMTEK.png



SIMTEK Präzisionswerkzeuge GmbH
Mössingen, Germany
Fon.: +49 (0) 7473 9517-0
Mail: info@simtek.com
Web: www.simtek.com

Press kontakt:

Domenico Laurenza
Marketing
Fon.: +49 (0) 7473 9517-120
Mail: marketing@simtek.de

PRX Agentur für Public Relations GmbH
Ralf M. Haaßengier
Kalkhofstraße 5
70567 Stuttgart
Fon 0711/71899-03/04
ralf.haassengier@pr-x.de
www.pr-x.de

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Images 2+3: SIMTEK Booth

Caption: SIMTEK at AMB in Hall 3, Booth C36: New tooling concepts for process reliability and efficient use of materials.

Image Downloads:

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SIMTEK Präzisionswerkzeuge GmbH
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Marketing
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Kalkhofstraße 5
70567 Stuttgart
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ralf.haassengier@pr-x.de
www.pr-x.de

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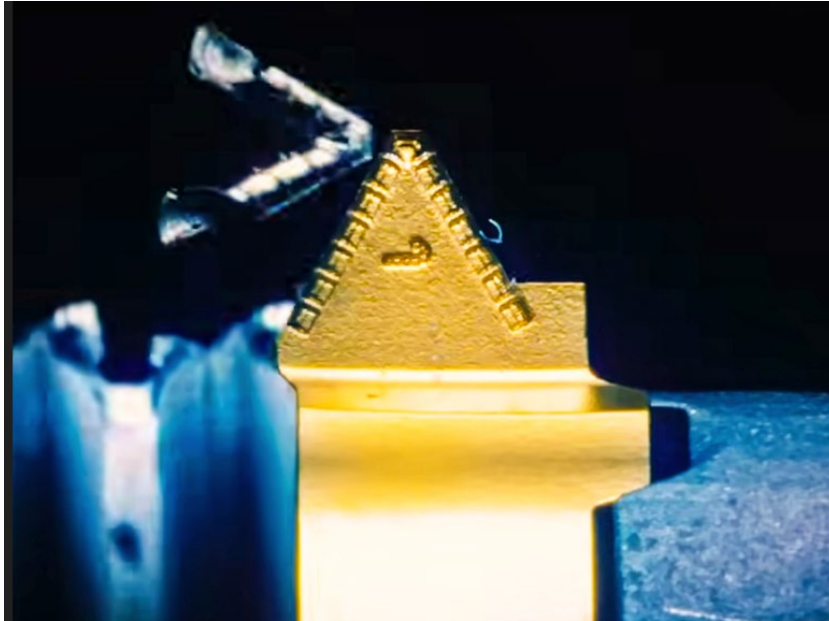


Image 4: Tool with 3D-lasered chip-forming geometries (Image source: SIMTEK AG)

Caption: "The increase in process reliability achieved through our lasered tools can be a decisive factor, especially for automated machining processes," explains Jeremia Geiger, CEO at SIMTEK.

Image Download: https://pr-x.de/fileadmin/download/pictures/SIMTEK/FA_priotools/202606_SIMTEK_Lasergeometrie_Gewinde.jpg



Image 6: simmill 9W4 (Image source: SIMTEK AG)

Caption: The simmill 9W system at AMB: a modular milling system with performance characteristics close to those of monoblock tools.

Image Download:

http://www.pr-x.de/fileadmin/download/pictures/SIMTEK/pi_simmill9w4/simmill9W4.jpg



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Marketing
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www.pr-x.de

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Image 7: Evstratios Ountzidis (Image source: SIMTEK AG)

Caption: Evstratios Ountzidis, VP Sales & Marketing at SIMTEK AG and Authorized Signatory at SIMTEK Präzisionswerkzeuge GmbH: "Our priotool system reliably calculates the fastest possible delivery time fully automatically based on numerous parameters and assigns the tool an express route through our in-house value chain."

Image Download:

https://pr-x.de/fileadmin/download/pictures/SIMTEK/FA_priotools/Bereichsleiter_Evstratios_Ountzidis.JPG



About SIMTEK

SIMTEK Präzisionswerkzeuge GmbH was founded in 1994. As a central part of the SIMTEK Group - which currently employs nearly 500 people at six locations worldwide and operates in approximately 50 markets around the globe - SIMTEK is dedicated with great passion and commitment to the development, manufacture, and distribution of precision tools designed to meet the most demanding requirements. The extensive standard range currently includes approximately 11,000 tools for grooving, turning, circular milling, broaching, thread whirling, and polygon milling. This range includes tools for machining bores with a minimum diameter of 0.3 mm as well as highly complex, multi-row disc milling cutters with a diameter of 200 mm. Thousands of successful custom tool developments attest to the company's extensive development expertise.

Another member of the SIMTEK Group is the Thuringian tool manufacturer Kaestner-Tools GmbH. Kaestner-Tools offers high-performance rotating tools that impress with their precision, performance, and process reliability. The tool portfolio includes drills, countersinks, reamers, and milling cutters, as well as special and combination tools.

More information can be found here: www.simtek.com

Please provide a copy of the publication.

SIMTEK Präzisionswerkzeuge GmbH
Mössingen, Germany
Fon.: +49 (0) 7473 9517-0
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70567 Stuttgart
Fon 0711/71899-03/04
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