SIMTEK at INTEC 2025, Hall 3, Stand H12

PRESS INFORMATION

Precision solutions for metalworking

Mössingen, December 13, 2024 - From March 11 to 14, 2025, SIMTEK Präzisionswerkzeuge GmbH will be presenting its latest innovations at INTEC in Leipzig, one of the leading trade fairs for manufacturing and automation technology. At stand H12 in hall 3, visitors can expect an extended selection of 3D lasered chip forming geometries, the versatile simmill 9W milling tool system and newly developed, length-adjustable tooling solutions in addition to the tried-and-tested tool range. There will also be a special focus on individual tooling solutions for machining the smallest diameters.

SIMTEK is setting new standards in chip control with its 3D lasered chip forming geometries. This technology not only increases process reliability, but also extends the service life of the tools.

"The introduction of laser geometries marks an enormous advance in tool technology. It not only makes our tools sharper and more precise, but also enables them to reliably meet the requirements for chip control," explains CEO Norbert Seifermann.

According to SIMTEK, the 3D lasered chip forming tools are ideal for applications in the automotive industry, medical technology and other sectors with high demands on precision and process stability. The number of customers using cutting tools with 3D laser geometries from SIMTEK has increased more than tenfold since 2019.

simmill 9W - monoblock performance meets modular flexibility

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Another highlight is the *simmill 9W tool family*. It combines the precision and stability of monoblock tools with the flexibility and cost-effectiveness of modular systems. The system is particularly suitable for applications such as grooving, parting and slotting - for example in the automotive industry, in mechanical engineering and for demanding precision applications.

"With the *simmill 9W series*, we are closing the gap between classic, modular interchangeable tools and monoblock solutions," explains Norbert Seifermann.

Thanks to innovative toothing technology, the system guarantees maximum stability and precision - even with milling depths of up to 16.5 mm in the standard range, which is far beyond the capabilities of many other comparable tool solutions. With standard cutting widths from 0.5 mm to 6.0 mm and an integrated coolant supply, the series scores highly in terms of both efficiency and sustainability. In the individual area, the application possibilities in terms of diameters, widths and depths are even greater.

Length-adjustable tooling solutions for maximum flexibility

The length-adjustable tooling solutions presented at INTEC are specially designed for small series production and individual requirements. Highlights include the *simturn DX toolholders* with infinitely variable length adjustability and patented *ME clamping principle*, which offers high stability even with long overhang lengths.

Thanks to their versatility, the length-adjustable toolholders are not only particularly economical and flexible to use, but also help to reduce the variety of tools required by users.

The range covers a wide spectrum of applications: from machining small bores from Ø 4.7 mm with *simturn* AX, to simturn DX for bores from Ø 7.0 mm, to larger diameters from 10.5 mm with *simturn* PX *systems*.

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"With these products, we enable our customers to reduce their tool inventories and still react flexibly to new production requirements," emphasizes Norbert Seifermann.

High-precision tools for small diameters and individual requirements

A growing segment at SIMTEK is the development and production of tools for machining in the smallest diameters. The standard range already includes numerous tools from the simturn AX, simturn DX and simturn PX product families, which have been specially developed for this purpose. However, SIMTEK users are not restricted to the use of standard tools. With more than 10,000 individual tool concepts per year, SIMTEK offers customized tool solutions for small diameter applications. Thanks to many years of experience in the customization sector and the use of lasered chip forming geometries, users benefit from economically viable custom tools even for small batch sizes - regardless of whether they are based on existing standard tools or developed from scratch.

((pictures))

Image 2: Nobert Seifermann, CEO (Image source: SIMTEK AG)
Caption: Norbert Seifermann at INTEC: "With the simmill 9W series, we are closing the gap between classic, modular interchangeable molds and monoblock solutions."
Image download:
http://www.pr-x.de/fileadmin/download/pictures/SIMTEK/PI_AMB_24_Spangeome-trien/Norbert_Seifermann1.jpg

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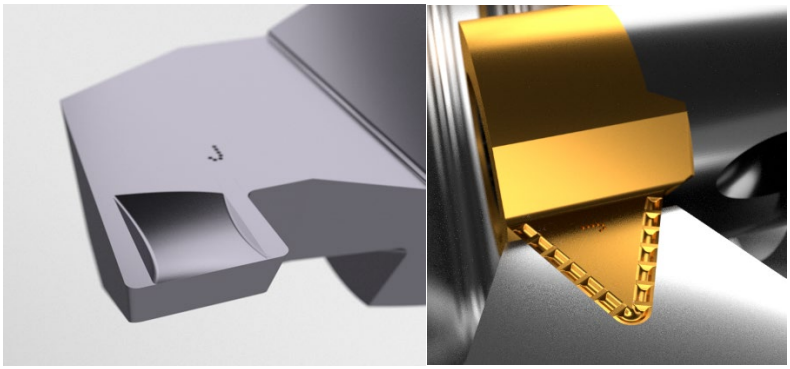

Fig. 3+4: Different molded sheets (Image source: SIMTEK AG)
Caption: Lasered chip forming geometries are the focus at INTEC: They optimize chip control and chip breaking, especially in demanding applications such as complex geometries, varying machining directions and large forming depths.
Image download: http://pr-x.de/fileadmin/download/pictures/SIMTEK/PI_AMB_24_Spangeometrien/005-A08-Spanlenkung-Schneide-Ansicht_4.png
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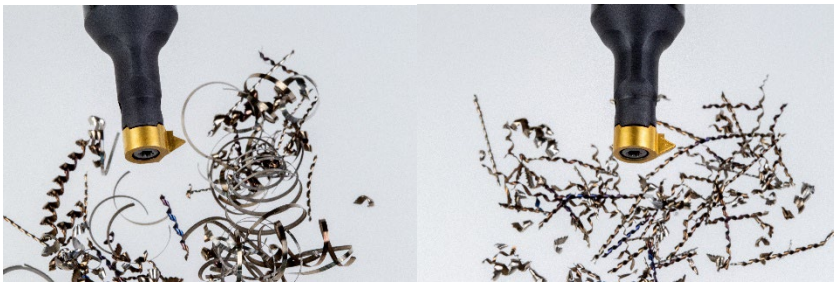

Fig. 5+6 simturn DX (Image source: SIMTEK AG)
Caption: When turning threads with a conventional simturn DX cutting insert (left), users previously had to put up with swirling chips or adjust the cutting values, which often resulted in longer machining times. The laser-cut chip geometry (right) produces chips with the same cutting values, which can be deflected out of the machining zone in a controlled manner.
Image download: http://pr-x.de/fileadmin/download/pictures/SIMTEK/DX_geschliffen_2.jpg
http://pr-x.de/fileadmin/download/pictures/SIMTEK/DX_gelasert_1.jpg

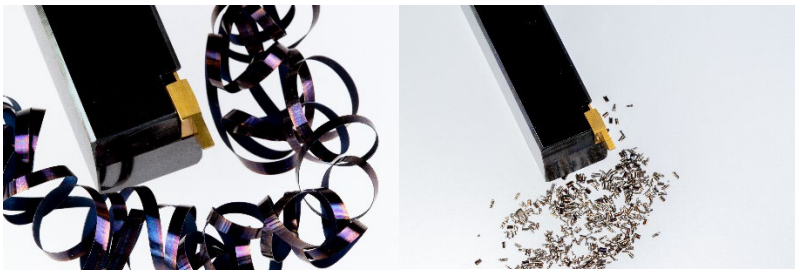

Fig. 7+8 simturn TK2 inserts (Image source: SIMTEK AG)
Caption: Grooving and longitudinal turning with a simturn TK2 cutting insert with a chip geometry ground in two directions produces whirling chips (left). These can wrap around the tool or the workpiece and lead to downtimes. The lasered version produces short chips that can be easily removed from the machining process, thus ensuring high process reliability.
Image download: http://pr-x.de/fileadmin/download/pictures/SIMTEK/TK2_geschliffen_3.jpg

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http://pr-x.de/fileadmin/download/pictures/SIMTEK/TK2_gelasert_1.jpg

Figure 9: simmill 9W4 (Image source: SIMTEK AG)
Caption: At INTEC, SIMTEK is presenting the simmill 9W family, an innovative milling tool system that combines the flexibility of modular systems with the precision and stability of monoblock tools. The version on show has 12 teeth and is suitable for cutting depths of up to 16.5 mm - ideal for demanding industrial applications.
Image download:
http://www.pr-x.de/fileadmin/download/pictures/SIMTEK/pi_simmill9w4/simmill9W4.jpg

Figure 10: Length-adjustable tooling solutions (Image source: SIMTEK AG)
Caption: Also in the SIMTEK trade fair bag: a new range of length-adjustable tooling solutions that offer maximum flexibility for individual production requirements.
Image download:
http://www.pr-x.de/fileadmin/download/pictures/SIMTEK/PI_Variable_Halter/SIMTURN--AX-DX-PX-Composition.jpg

Figure 11: simturn DX
Caption: At INTEC, SIMTEK is presenting the simturn DX toolholder - a versatile solution for the internal machining of small components. With their variable length

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adjustment and the friction-locked ME clamping system, they offer maximum stability and precision.
Image download:
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About SIMTEK

Founded in 1994, SIMTEK Präzisionswerkzeuge GmbH, a central part of the SIMTEK Group, employs almost 600 people worldwide at six production, sales and logistics locations and is present in 46 markets around the globe. The tool specialist, headquartered in Mössingen, Swabia, develops, manufactures and sells carbide precision tools of the highest quality and performance. The extensive standard range currently includes around 16,000 tools for grooving, turning, circular milling, grooving, thread whirling and polygon milling. Tools for machining bores with a minimum diameter of 0.3 mm are just as much a part of the standard range as highly complex, multi-row side milling cutters with a diameter of 200 mm. Thousands of successful customer-specific individual tool developments testify to our extensive development expertise.
New to the SIMTEK Group's product range are high performance rotary tools from the in-house brand Kaestner-Tools, which 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.

Further information can be found at: www.simtek.com

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