

Laboratory Application Takes on Shop Floor Environment

The new ZOLLER »pomSkpGo«, a portable desktop measuring machine especially designed for the measuring and preparation of cutting edges, takes a previously typical laboratory application to the shop floor. The carbon design allows for mobile use and is intended to provide precision and stability at the same time.

The »pomSkpGo« operating software offers numerous measuring and analysis algorithms specifically for the field of edge rounding for measuring in the measuring room or in production. The measuring volume comprises 1.6 x 1.2 x 1.0 mm³ with a lateral resolution of up to 1.2 micron and a vertical resolution of 0.1 micron.

According to the company, the simple operation of the »pomSkpGo« allows all operators to perform measurements quickly and independently. The ZOLLER universal holding fixture



and positioning guide help ensure exact positioning of the cutting edge under the high-resolution sensors. The large working distance is designed for fast and safe operation.

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EASTEC Booth 5436

CNCs for Milling and Turning Machines

ators in the booth. The Sinumerik 828D BASIC T (turning) and BASIC M (milling) CNCs will also be on display.

The Sinumerik 828D BASIC T combines CNC, PLC, operator panel and axis control for five axes/spindles, including live tooling. Milling and drilling operations on a turning machine, both for face and peripheral surfacing, are possible. In tandem with the new Sinamics S120 Combi drives package, the 828D BASIC T is designed for increased efficiency and virtually maintenance-free operation as the fans, hard disks and batteries of past CNC generations have been eliminated, said the company.

With a diecast magnesium front panel on an IP65 enclosure, the BASIC T enables an Ethernet connection, USB or compact flash (CF) card program loading. It features an 8.4" color display and QWERTY keyboard. Various communication ports in USB, Ethernet, Drive-CLiQ, PLC I/O interface, RS232 C and NC inputs/outputs are standard.

In operation, 80-bit nano accuracy helps provide contour control precision and Siemens' kinematic transformations help provide the proper orientation of machining plane to work surface.

Established cutting cycles can be utilized with fully animated elements for faster visualization of part production, with combinations of Sinumerik CNC and ISO programming languages possible as well.

The Sinumerik 828D BASIC M class for milling machines is designed to provide reduced machining times and enhanced surface finish. Again, in tandem with the Sinamics S120 Combi drives package and Simotics feed and spindle motors, the 828D BASIC T is designed for enhanced performance. Axis and spindle dynamics also feature improved performance.

The Sinumerik 828D is capable of

physical, high-level language command supports ISO programming. Programming time can be reduced for batch production with the use of »pMill and ShopTurn graphical

workstep programming systems, while high-level language programming can be used in conjunction with programGuide to reduce programming times for large-scale serial production.



Modern PC and mobile phone technology are also available for the mid-range machine tool. Features include online help animations and a new type of input prompting system with moving picture sequences. USB, compact flash (CF) card and Ethernet ports enable high-speed data transfers. The Easy Message functionality offers production status monitoring by text messaging (SMS).

The Sinumerik 808D CNC is intended for entry-level milling and turning machines. With up to 3-axis plus spindle control capability in milling or turning applications, the 808D is offered as a package with Siemens Sinamics drives and Simotics motor technology. This CNC will be demonstrated in the Siemens booth on a knee mill.

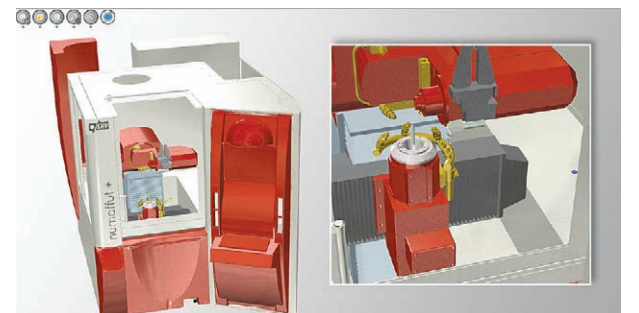
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NCSIMUL Machine 9 Provides NC Simulation

SPRING Technologies will demonstrate its recently launched NCSIMUL Machine 9. NCSIMUL Machine 9 provides an NC simulation environment intended to be more realistic, intuitive and integrated, with extended features dedicated to multi-axis and multitasking machining centers. The software package has been developed to interconnect with other company-wide software systems, such as MRP, ERP, and MES.

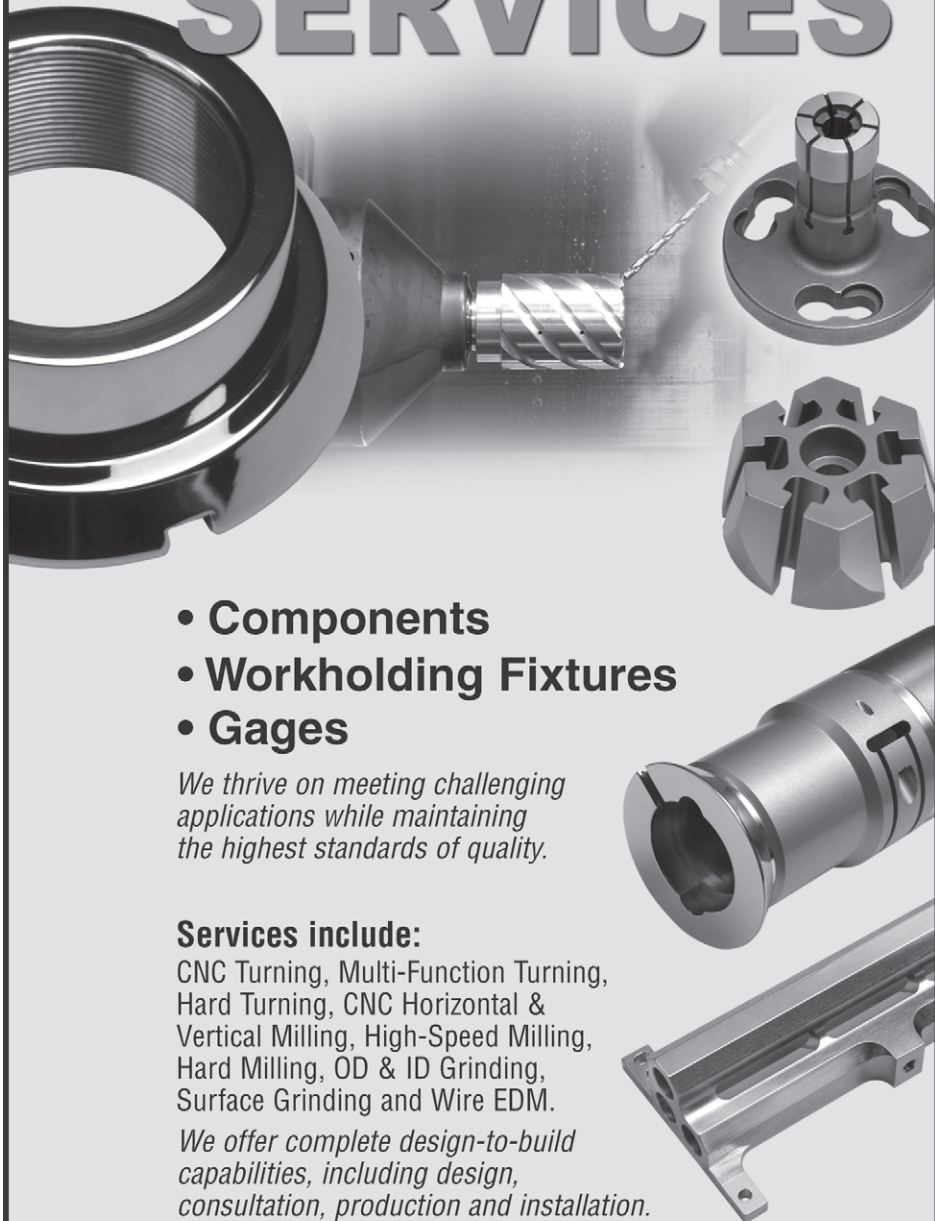
"NCSIMUL Machine 9 is much more than simply previewing toolpaths to avoid crashes," said Silvere Proisy, U.S. General Manager. "It offers users a unique experience where CNC realistic simulation, integrating all machine, tools, and material parameters,



quickly becomes a day-to-day part of a manufacturer's lifestyle. More than 200 enhancements have been implemented based on extensive customer surveys."

NCSIMUL Machine 9 incorporates new ribbon technology navigation, enabling users to work more efficiently. Tasks are now accessed via tabs that break down into tasks and sub-tasks. The new interface has been specifically designed to work on touch screen devices to facilitate mobility. The intuitive

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