

Media Release

Mundelein, IL, USA, June 1st, 2022

New at IWF 2022

Rollomatic and Strausak will co-exhibit at IWF 2022

Rollomatic and Strausak will be exhibiting at the IWF 2022 (International Woodworking Fair) in Atlanta, GA in August 2022. Both companies extend their global market positions in tool grinding and laser cutting and the following models will be showcased during the show:



Strausak model ONE universal 5-axis tool grinding machine – modular and scalable (pocket grinding for PCD inserted tools, round-shank tools and inserts)



Rollomatic LaserSmart® 5-axis laser cutting and ablation machine for ultra-hard materials (for woodworking and industrial applications)

Strausak will spotlight the new model ONE 5-axis flexible tool & cutter grinding machine with Numroto tool design software for the grinding of rotary and stationary cutting tools in small and large batch production, for custom cutting tools as well as for resharpening. Here are some significant features:

High-frequency spindle and wheel changer: As an option, this machine can be retrofitted with a high-speed grinding spindle together with a 3-position wheel changer. This option is ideal for pocket grinding for brazed carbide, PCD or any other ultra-hard materials. Other applications could be short flutes, ID grinding or any other feature with tight radiuses.

Scalable: This model has been designed so that any options can be upgraded and retrofitted at any time during the life of the machine.

Wheel changer: A 4-station wheel changer is integrated into the machine as standard. This wheel changer can be upgraded at any time to an 8-position or 12-position system. It is easily accessible from the outside of the machine.

Linear motors: Linear motion technology is included in this machine which ensures outstanding surface finishes both on radius and other primary reliefs as well as flute finish. Linear motors also reduce the footprint of the machine.

Numroto software: This software platform offers the user high-performance tool design and intuitive programming for an unlimited range of applications, both for production, custom tooling and for resharpening.

Footprint: This machine presents the smallest possible footprint among any tool grinder with a dia. 32 mm (1.1/4") capacity, without any compromise in rigidity, sturdiness and power for production grinding.

Rollomatic will show the model LaserSmart® LSS10 laser cutting machine for high-velocity cutting of PCD cutting tools both with round shank and with HSK attachments.

Feedrates: The feedrates of this model are up to 4 times faster compared to conventional laser cutting machines without compromising cutting edge quality and surface finish.

Cutting edge: This machine produces the sharpest corner radius in the PCD industry with a maximum radius on the cutting edge below 0.5 micron. In addition, a defined radius of 3, 6 and 9 microns can also be produced consistently.

Available options:

- Unlimited 3-D machining
- Cutting of all cutting tools features including cylindrical lands
- Drills, endmills, inserts, HSK monobloc tools and more
- Sharpening of CVD or diamond coated carbide cutting tools after thick film-coating
- Femto-second option for micro tools

Strategy:

- Rollomatic will showcase this new LaserSmart® laser cutting/ablation machine in full cutting mode during the IWF. The strategy for this machine is to offer a more cost-effective way and higher quality in the production of high-performance PCD polycrystalline diamond, CBN cubic boron nitride and CVD chemical vapor deposited cutting tools which traditionally require to be produced by a double process of spark erosion and polish grinding.
- Conventional grinding with diamond wheels will invariably “pull out” an entire PCD crystals, while laser cutting will “slice” through the crystal and leave a portion of the crystal in the matrix, thus providing a razor-sharp cutting edge, unattainable by EDM, EDG (electro-discharge) or grinding.
- Continuous field testing has shown that sharper cutting edges and superior surface quality on PCD tools deliver longer tool life and higher feed rates during machining.
- Laser ablation allows the freedom to optimize tool geometries.
- Manufacturing chip form geometries in PCD is easily performed by this machine using the ablation process as a cost-effective and powerful alternative to existing complicated and expensive conventional methods

Rollomatic Inc., located in Mundelein, Illinois, is a subsidiary of Rollomatic SA, a privately-owned Swiss company established since 1989 in Le Landeron, Switzerland. The US Headquarter was launched in 1994 to provide local customer service and support throughout the U.S., Mexico and Canada.

This location features a 29,000 sq. ft. building with a showroom and training area as well as warehouse and engineering offices. Our showroom provides an ideal atmosphere for machine demos, software training and test grinding, while offering an opportunity to explore the latest Rollomatic offerings.

Rollomatic is looking to the future with its partners such as the EPFL (Swiss Technical University in research, teaching and innovation) so it can be right at the center of the innovations and in-depth discussions shaping the Fourth Industrial Revolution. True to its Swiss origins, the company operates at the highest level of precision and offers 100% Swiss-built products and services. Rollomatic is in constant pursuit of excellence in quality and accuracy.

Contact

Rollomatic Inc.

Media Relations

1295 Armour Boulevard

Mundelein, IL 60060, USA

Phone : +1 847 281 8550

E-Mail : solutions@rollomaticusa.com

Follow us on

