

## Media release

Mundelein, IL, USA, May 5th, 2022

# Rollomatic Milestone Achievement of Building the First Femto-Second Laser Cutting Machine for Ultra Hard Materials

Rollomatic maintains its leadership position in the field of laser cutting ultra-hard materials by announcing the launch of a femto-second laser cutting machine for PCD (polycrystalline diamond) and other ultra-hard materials.

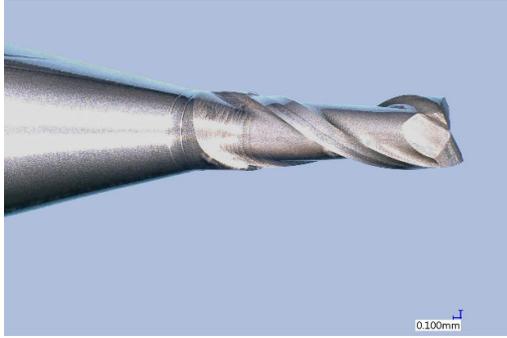
The LaserSmart®510 Femto with its innovative and powerful femto-second laser source provides unlimited machining possibilities. This laser source has a femto-second pulse width which is 1,000 shorter than a pico laser. It is built on the success of the Rollomatic LaserSmart® series of machines. This revolutionary process allows users to achieve the results that set new standards in ultra-hard material machining.



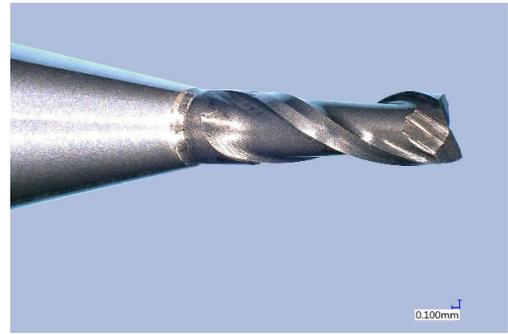
Rollomatic LaserSmart®510 Femto laser cutting machine

This new LaserSmart® model is the world's only femto-second laser cutting machine for PCD and other ultra-hard materials.

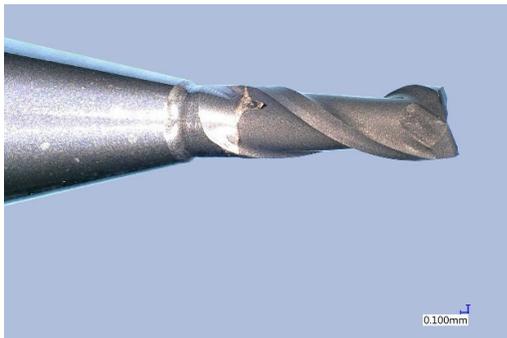
- Never seen before in the cutting tool industry.
- Achieves surface finishes as low as Ra 40 nanometers.
- Produces crisper and sharper cutting edges compared to conventional laser machines.
- Specifically improves finishes on 3D machining of drills and endmills.
- 30% faster feedrates compared to conventional laser machines.
- The pulse width on a femto-second laser is 1,000 times faster than a pico lasers.
- 3D machining, profile cutting, cylindrical margins, chip breakers, fluting and more.
- Also suitable for ceramics, carbide, sapphire, glass or other ultra-hard materials.
- The machine adapts the machining process automatically to the type of material.



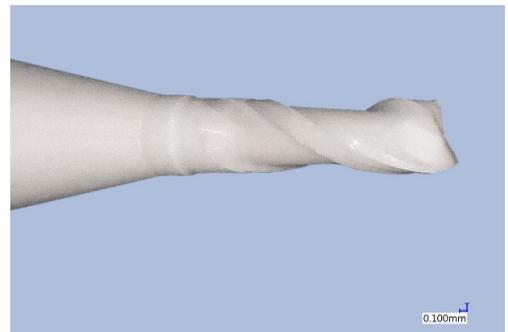
Tungsten carbide endmill  
3D machining with LaserSmart® Femto



PCD endmill  
3D machining with LaserSmart® Femto



PCD endmill  
3D machining with LaserSmart® Femto



Ceramic endmill  
3D machining with LaserSmart® Femto

Rollomatic Inc., located in Mundelein, Illinois, is a subsidiary company 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 at 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.

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