



Press Release

Laser tube cutting with all the benefits of solid-state laser technology

The TruLaser Tube 5000 fiber is a flexible, fast and energy-efficient system that offers outstanding accessibility – exploiting the strengths of solid-state laser technology better than any other laser tube cutting machine before.

Ditzingen / Düsseldorf, April 4, 2016 – With some 800 machines already up and running at customer sites all over the world, TRUMPF has a proven track record of expertise in laser tube cutting. Now TRUMPF has added yet another highly productive all-rounder to its TruLaser Tube Series 5000 range of products: the TruLaser Tube 5000 fiber. The new machine was unveiled at the Tube exhibition in Düsseldorf, which ran from April 4 to 8, 2016. This gave future users and potential customers plenty of opportunity to check out the following key features:

Open machine concept for maximum accessibility

The TruLaser Tube 5000 fiber is the world's first tube cutting machine based on solid-state laser technology to eliminate the need for a fully enclosed housing. This massively improves access to the machine, making it quick and easy for users to load individual tubes and profiles either manually or with a crane. The open-plan machine design meets the stringent safety standards required of fiber machines yet still allows users to remove finished parts while the machine is in operation. All finished parts can be accessed at an ergonomic working height.

Enhanced productivity with RapidCut

The new RapidCut function exploits the full potential of the solid-state laser, boosting productivity by up to 15 percent. By superimposing the movements of the tube axis and cutting head, the TRUMPF design engineers have achieved a fourfold increase in machine dynamics. This superimposed movement of different axes is a good way to successfully exploit the high feed rates of the solid-state laser even for smaller contours. It represents a major leap in productivity, especially for thin-walled tubes.



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Meanwhile the TRUMPF technology tables guarantee reliable processes. Program-controlled parameters such as laser output, focal position and nozzle distance are constantly fine-tuned to ensure high edge quality. The new machine also stands out for its bevel cutting capabilities. And users can expect less idle time, too, thanks to the combination of a single cutting head strategy and intelligent collision protection, with a magnetic coupling that protects the cutting head from the risk of damage.

Other key features designed to ensure reliable production processes include plausibility checks during loading and an intelligent sensor system at the part removal station. The machine comes with two cameras that allow operators to monitor these handling processes and the cutting operations straight from the control panel. As well as making life easier for users, this also helps to identify and eliminate sources of error at an earlier stage.

New clamping methods push set-up time close to zero

Lengthy set-up times are a thing of the past. The new clamping system in the TruLaser Tube 5000 fiber rotates and centers the tubes with the utmost precision, ensuring reliable production processes and allowing the machine to work on tubes across the entire clamping area without any retooling. The TruLaser Tube 5000 fiber sets the clamping pressure automatically and monitors it continuously. Two parallel clamping planes guarantee parts are properly centered at all times, once again avoiding additional set-up times and eliminating the risk of set-up errors.

New highlights: non-ferrous metals and the laser network

Cutting packages for brass and copper give the users the capabilities they need to handle highly reflective materials. Drawing on TRUMPF cutting data, the machine can cut non-ferrous metals just as reliably as mild steel.

The TruLaser Tube 5000 fiber also offers the unique advantage of compatibility with a laser network, which means the machine can share its laser with a



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different machine such as a 2D laser machine or a laser welding station. This helps to cut costs by making optimum use of the laser.

Ready for Industry 4.0

The TruLaser Tube 5000 fiber is fit for the future in other respects, too. With the optional Dot Matrix Code system parts can be marked for easier identification and process control. Workpieces can then be used as intelligent information carriers, which facilitates paperless, highly efficient networking of the manufacturing processes. It takes a matter of seconds for a laser to engrave the workpiece with the standard industrial classification, which can then be read on all materials using a conventional scanner.

Of course the machine can also be operated via mobile terminal devices. The MobileControl app replicates the user interface from the standard control panel on a tablet touchscreen. The operator can keep an eye on all the steps in the production process, even those that do not take place directly in front of the control panel. The app enables the operator to access information from the machine and switch to a different program from different locations within the work environment.

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TruLaser_Tube_5000_fiber.jpg

The TruLaser Tube 5000 fiber exploits the strengths of solid-state laser technology better than any other laser tube cutting machine before.



Cutting_Process.jpg

Enhanced productivity with RapidCut: The new function exploits the full potential of the solid-state laser, boosting productivity by up to 15 percent.



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About TRUMPF

The high-technology company TRUMPF provides manufacturing solutions in the fields of machine tools, lasers and electronics. These are used in the manufacture of the most diverse products, from vehicles, building technology and mobile devices to state-of-the-art power and data storage. TRUMPF is the world technological and market leader for machine tools used in flexible sheet metal processing, and also for industrial lasers. In 2014/15 the company – which has approximately 11,000 employees – achieved sales of 2.72 billion euros. With almost 70 subsidiaries, the TRUMPF Group is represented in nearly all the countries of Europe, North and South America, and Asia. It has production facilities in Germany, France, Great Britain, Italy, Austria, Switzerland, Poland, the Czech Republic, the USA, Mexico, China and Japan.

For more information about TRUMPF go to www.trumpf.com

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