Trade press release

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Jenoptik presents fast and precise 3D laser metal cutting machine at Welding & Cutting 2017

Jenoptik will be showcasing its 3D laser metal cutting technology, JENOPTIK-VOTAN® BIM, at the world's leading international trade fair for joining, cutting, and surfacing in Düsseldorf.

From September 25-29, 2017, you can visit us at our joint stand together with the Messer Group and Messer Cutting Systems (hall 11, stand D24) to watch live demonstrations of JENOPTIK-VOTAN® BIM, our laser robot system for 3D metal cutting of chassis components for the automotive industry.

Laser cutting for highly efficient processing of complex metal parts

Compared to conventional machining methods, the non-contact laser process minimizes machining times by eliminating the set-up time and also reduces the costs associated with tool wear. Thanks to its excellent design and flexibility, the JENOPTIK-VOTAN® BIM laser cutting machine is a virtually wear-free tool, perfect for a host of metal working applications. With a repeat accuracy of up to 50 µm in optimal conditions, this laser machine ranks among the most precise systems on the market and is comparable to conventional Cartesian systems. It cuts a circle or other standard contour in just one second, meaning its cycle time is significantly shorter than other robot systems.

The concept behind the JENOPTIK-VOTAN® BIM series is based on a beam guide inside the robot. This means that laser sources with a power of up to 4 kW can be used without the need for a complex external beam guide. The equidistant internal beam path ensures a stable beam quality. Several laser robots cutting in parallel can also be integrated into a single machine in order to achieve a higher output in a significantly reduced floor space. Furthermore the robot-based machines are the first to enable complete line integration of the laser cutting process and can be easily integrated into production lines or combined processing units. As such, Jenoptik is offering its customers a significant technological competitive advantage.

The JENOPTIK-VOTAN® BIM is used in the automotive industry for cutting complex chassis components made of materials such as hot-formed and ultra-high strength steels as well as cast aluminum. Hydroformed tubes can also be trimmed for use in battery or electric motor carrier units for electric cars.

You can download high-resolution images from Jenoptik's image database at Automotive/Laser Processing

Systems.

Jena, September 08, 2017

About Jenoptik

As an integrated photonics group, Jenoptik divides its operations into three segments: Optics & Life Sciences, Mobility, and Defense & Civil Systems. The group's Automotive division (which falls under the Mobility segment) is a leading manufacturer of production metrology and 3D laser systems. Jenoptik also develops 3D laser systems for integration into customer production lines as part of process optimization and automation work. These are designed for machining plastics, metals, and leather with maximum efficiency, precision, and safety.

Contact

JENOPTIK | Automotive
Engin Akyol
Communications & Marketing Manager
Phone: +49 7720 602-158 | Fax: -123
E-mail: automotive.marketing@jenoptik.com
www.jenoptik.com