



Press Release

TRUMPF Enters the World of Automated Arc Welding

FARMINGTON, Conn., January 27, 2021– TRUMPF has released its first automated arc welding system that makes adopting automated welding easier than ever. The TruArc Weld 1000 comes with a collaborative robot known as a “cobot” that assists in the creation of the program, rather than relying on values from an offline source or entering positioning data into a control. After the operator manually guides the cobot over a part, it automatically creates the weld program. The remarkably easy programming enables fabricators to utilize robotic welding, even with a lot size of one. CE-compliant and approved by TÜV Austria, the TruArc Weld 1000 meets the very highest safety standards.

Faster and easier programming

Unlike conventional industrial robots, operators can interact with the cobot, guiding it over the part manually. A built-in sensor ensures a smooth response from the cobot. Equipped with an operating unit, the cobot allows users to store the weld path’s start and end points as well as intermediate points in order to create the program. Furthermore, the cobot control system includes templates for welding programs and parameters that cover scenarios such as different sheet thicknesses. Combined with the operating unit on the welding torch, this simplifies the task of programming the cobot. It also enables efficient and fast programming and welding with the TruArc Weld 1000.

Small batches, great results

The TruArc Weld 1000 offers an automated alternative for many parts that users would normally weld manually and produces a high-quality weld seam. Thanks to the rapid programming, fabricators have an affordable means of tackling short production runs and single-part runs even if the parts only require a short weld seam.



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Simultaneous setup and welding

Inside the TruArc Weld 1000 is a partition that can be moved up and down. This allows users to divide up the working area and choose between welding one large part (single-station operation) or several smaller ones (two-station operation). In single-station operation, the cobot can weld parts measuring up to 80 x 24 x 24 inches. Other ratios of width to length are also possible depending on part dimensions. In two-station operation, the TruArc Weld 1000 can process smaller parts measuring up to 24 x 24 x 24 inches. To ensure it can easily reach both stations, the cobot travels between two stations along a linear axis. While the cobot is performing welding on one side, the operator can use the time to set up a part on the other side. The cobot program can also be transferred automatically from one station to the other.

Ready to go with no training required

No previous experience is required to operate this system. Customers can carry out commissioning of the CE-compliant TruArc Weld 1000 themselves within a few hours using dedicated video tutorials that contain all the information required to quickly learn how to operate and program the machine outside of a classroom. From the wire coil to the welding parameters, the system comes with everything you need to get started with the welding process.



About TRUMPF

The high-technology company TRUMPF offers production solutions in the machine tool and laser sectors. It is driving digital connectivity in manufacturing industry through consulting, platform and software offers. TRUMPF is the world technological and market leader for machine tools used in flexible sheet metal processing, and also for industrial lasers.

In 2019/20 the company – which has about 14,300 employees – achieved sales of 3.8 billion dollars. With over 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.



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

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