



Press Release

Automatically prepare edges for welding during laser cutting

“EdgeLine Bevel” from TRUMPF automatically bevels parts during laser cutting to prepare them for welding // Manual beveling no longer required // “This is a one-of-a-kind technology in sheet metal fabrication,” says TRUMPF product manager Patrick Schüle

Ditzingen, Germany, October 27, 2021 – High-tech company TRUMPF will take the Blechexpo fair as an opportunity to unveil its “EdgeLine Bevel” solution, which automatically prepares parts for welding during the cutting process. Compatible with standard TRUMPF laser-cutting machines, this technology allows users to create beveled edges while cutting out the contours of each part. Liquid metal flows into these bevels during welding to ensure a high-quality weld seam. On today’s shop floors, fabricators typically perform beveling prior to welding using a milling machine, grinding machine or angle grinder – an additional step that is both cumbersome and time-consuming.

Currently, the only way to create bevels automatically is to use technologically advanced machines with specialist 3D cutting heads. However, these are seldom available on manufacturing lines, especially those operated by smaller fabricators. EdgeLine Bevel from TRUMPF is the first solution that allows users to bevel part edges automatically on much simpler, standard types of laser-cutting machines. The technology can also be used to create bevels on a part’s inner contours, which are impossible for manual angle grinders to access. “This is a truly unique way of eliminating downstream processes in the sheet-metal fabrication environment. It boosts the efficiency of customers’ production lines and confirms the status of TRUMPF as a solution provider for the entire sheet-metal process chain,” says TRUMPF product manager Patrick Schüle.

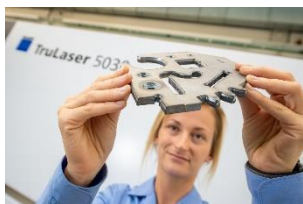
Can also be used for countersinks

As well as beveling, EdgeLine Bevel can also automatically make the countersinks required to screw parts together, thereby eliminating yet another downstream process. The technology is suitable for all companies in the sheet-metal fabrication sector that use joining processes on the shop floor or require countersinks for screw connections. “And thanks to the quick and easy

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programming, this solution also makes sense for companies that only occasionally fabricate parts with bevels and countersinks,” says Schüle. TRUMPF will be launching the new technology at Blechexpo for the standard versions of its TruLaser Series 3000 fiber and TruLaser Series 5000 fiber machines. From spring 2022, existing owners of new-generation TRUMPF laser-cutting machines will also be able to retrofit EdgeLine Bevel technology.

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EdgeLine Bevel

A worker inspects a part after creating bevels using TRUMPF EdgeLine Bevel technology. (Source: TRUMPF / Martin Stollberg)



EdgeLine Bevel process

EdgeLine Bevel technology allows standard TRUMPF laser-cutting machines to apply slanted edges to the contours of a part in a process known as beveling. (Source: TRUMPF / Martin Stollberg)



Beveled part

A worker removes a beveled part from an off-the-shelf TRUMPF laser-cutting system. (Source: TRUMPF / Martin Stollberg)



About TRUMPF

TRUMPF is a high-tech company offering manufacturing solutions in the fields of machine tools and laser technology. The Company drives digital connectivity in the manufacturing through consulting, platform products and software. TRUMPF is a technology and market



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leader in highly versatile machine tools for sheet metal processing and in the field of industrial lasers.

In 2020/21, the company employed some 14,800 people and generated sales of about 3.5 billion euros (preliminary figures). With over 80 subsidiaries, the TRUMPF Group is represented in nearly every European country as well as in North America, South America and Asia. The company has production facilities in Germany, France, the United Kingdom, Italy, Austria, Switzerland, Poland, the Czech Republic, the United States, Mexico and China.

Find out more about TRUMPF at www.trumpf.com

Press contact:

Ramona Hönl
Spokesperson Additive Manufacturing, Group Communications
+49 7156 303-31251
Ramona.Hoenl@trumpf.com

TRUMPF GmbH + Co. KG, Johann-Maus-Straße 2, 71254 Ditzingen, Germany