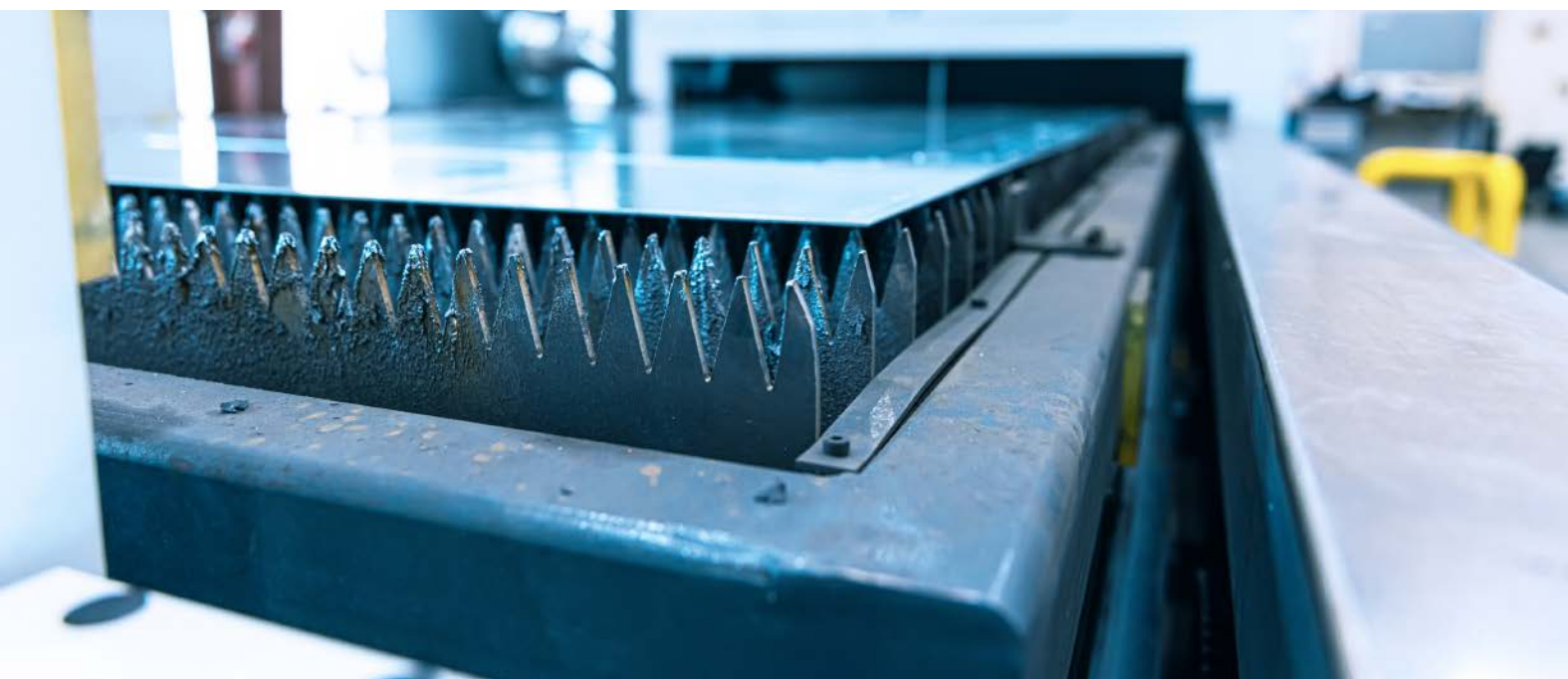




MicroStep Europa GmbH | Case Study Sheet Metal Processing

Laser Cutting for the Automated Manufacturing of the Future

MicroStep Europe was looking for a partner and supplier for control technology to implement the future topics of digitalization and the vision of Industry 4.0. As a technology partner for its own showroom at the headquarters in Bad Wörishofen, Bavaria, as well as in Dorsten, Westphalia, and as a sparring partner for Europe-wide developments within the framework of the Industry Fusion Foundation (IFF).

“We are specifically looking for other strong partners with whom we can concretely implement our vision of digitalization and networking of the European industry and ensure its continuous development!”

Igor Mikulina | Managing Director of MicroStep Europa GmbH & President of the IndustryFusion Foundation (IFF) Board of Trustees



Objective

MicroStep Europe required an affordable system for high-quality 2D laser cutting: Eckelmann delivered the complete control and drive system including software for the MSE Smart FL from MicroStep Europe. The company was also looking for a partner and supplier for control technology to implement the future topics of digitalization and the vision of Industry 4.0.

As a partner of MicroStep Europe GmbH, Eckelmann, in cooperation with other companies within the IndustryFusion Foundation (IFF), takes on the task of securing and further developing the digitalization and networking of the European industry. The vision: to provide networked machines and complete lines through the association. The IFF was founded as an association of machine and plant manufacturers, component manufacturers, software developers, as well as representatives from science and politics within the Industry Business Network 4.0 e.V. in 2020 in St. Gallen, Switzerland.

The Client

MicroStep Europa GmbH was founded in Bad Wörishofen, Bavaria, in 1999 and supplies production companies — from small workshops to large corporations — in the DACH region with cutting-edge metalworking technology. The company specializes in the sale and service of CNC cutting systems for 2D and 3D cutting of sheet metal, pipes, profiles and container bases using laser, plasma, oxyfuel and water jet technology.

As MicroStep Europe offers its customers innovative and unique solutions in all cutting technologies relevant to metal processing, its customers can rest assured that they will receive exactly the solution they need. In addition, the company offers pioneering bending technology for almost every application. Coupled with excellent service and support as well as a range of other innovative metalworking products (surface processing, material handling, etc.) and revolutionary digitalization solutions, the company is inspiring a growing customer base.

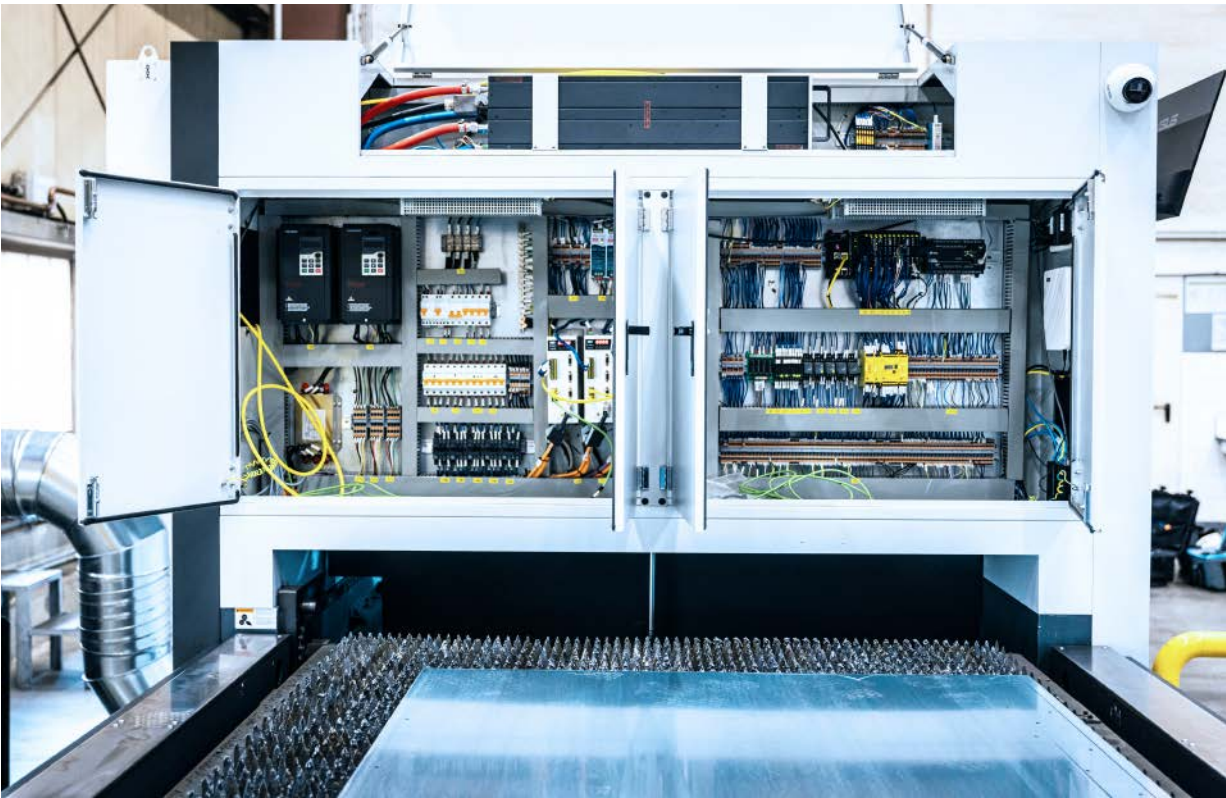
Performance by Eckelmann

- › Complete E°Cut package
- › EXC 89 compact control
- › UBM I/O modules
- › E°Darc K or C controllers
- › Motors / cables / industrial panel PC G0421E2
- › E°Cut cutting software

Application

Efficient laser cutting of thin and medium sheet thicknesses in various materials (including mild steel, stainless steel, aluminum) is made possible: with an output of 2 kW to 30 kW on machines with dimensions from 1.5 by 3 meters to 2.5 by 12 meters.

As a pioneer in machine automation, the Wiesbaden-based company offers machine builders of cutting machines the E°CUT solution package.



➤ Control and drive IPS plus software from a single source: The MSE Smart FL from MicroStep benefits from over 40 years of laser cutting expertise from Eckelmann.

Special Features

- Ensuring process stability: Functions were adapted according to MicroStep's specifications to reflect the longstanding expertise in laser cutting.
- IFF-compliant further development of the technology
- Optimization towards the innovative goal of the IFF: Green SmartFactory 4.0. One of the flagship projects where digitalization and networking are implemented across manufacturers. Machine visualizations are used in the digital twin during planning, commissioning, and service.



Do you have any questions?

Oliver Elias Sebastian
Senior Sales Manager Automation Products
Eckelmann AG
E-Mail: o.sebastian@eckelmann.de



Your Partner for Industrial Automation
& Digitalization

Eckelmann AG | Berliner Straße 161 | 65205 Wiesbaden | Germany | eckelmann.de

Copyright ©2024 Eckelmann - All rights reserved.