

customer success story

herzog systems ag is raising its manufacturing to a new level of autonomy – with digital tool logistics and high-precision tool holding systems from SCHÜSSLER.

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The starting point

herzog systems ag is the leading company in the development and manufacture of shut-off nozzles for thermoplastic and elastomer processing. The products are characterized by their robustness, precision, and reliability and are used in a wide range of industries, including the automotive, electronics, and medical industries.

In order to position itself for the future at an early stage, herzog systems ag switched to intelligent, self-sufficient manufacturing. For this purpose, the factory was equipped with a digital tool dispensing system and a flexible manufacturing cell.

The goal was to introduce standardized processes to simplify planning and reduce the time spent searching for and preparing tools. At the same time, warehousing costs were to be reduced by 20%—without compromising availability and delivery reliability. The quality of manufacturing-related processes was also to be improved. High availability of tools and raw materials, as well as reliable handling of master data, play a central role in this. This is because a smooth workflow enables the company to manufacture autonomously from batch size one for up to 72 hours.

“Our initial focus was on new clamping systems with PSC interfaces, but we were so impressed by the tool-manic that we enthusiastically took the step to professional shrinking equipment right away.”

- Zarko Milic, Production Manager herzog systems ag



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The solution: cooperative partnership

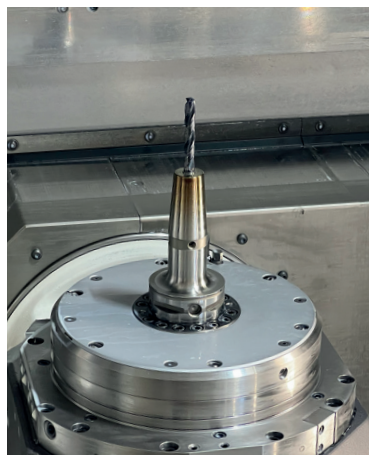
While searching for a suitable solution, herzog systems ag came across SCHÜSSLER..

During a personal tour of the Bodelshausen facility together with TAFF TOOL AG, a Swiss distributor of machining and operating equipment, SCHÜSSLER impressed with its perfectly coordinated manufacturing processes and high quality standards. The communication and transparency of the Swabian family-owned company also made a positive impression.

„herzog systems ag is a long-standing regular customer of ours, for whom it is not about individual products but rather sustainable solutions. During the transition to a highly autonomous manufacturing cell, we were able to provide herzog systems ag with targeted advice and recommend the appropriate tool holders and shrink devices based on our experience. With SCHÜSSLER, we deliberately chose a partner that meets the highest standards in terms of technology and quality. The result confirms that we made the right choice: stable processes, high precision, and a solution that fits perfectly with herzog systems ag's strategy," says Muharrem Krasniqi, Head of Machining/ Member of the Executive Board at TAFF TOOL AG.

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The solution: cutting-edge technology

The tool clamping systems provided for testing quickly won over herzog: the first impression was one of precise, well-manufactured holders, and they also achieved very good results in actual use, even with exotic materials. An important criterion for the use of the tool holding systems in autonomous production was also met from the outset: the CAD data for SCHÜSSLER products is immediately available online and offers additional information in addition to the usual file formats.

In addition, the technically outstanding, easy-to-use tool-manic shrinking device proved impressive. An easily adjustable iris induction coil adapts smoothly to the tool being used, while the separate lamellas ensure even heating – and only as warm as necessary. The three integrated cooling bells offer rapid cooling without direct contact with the cooling liquid. And the stored tool holder data makes the entire shrink-fit process significantly safer, easier, and faster.

In this collaboration, SCHÜSSLER impressed as a system supplier with a diverse, high-quality, and precise product range. Particularly noteworthy is the company's delivery reliability, even for special designs, and its transparent, trustworthy communication.



**"For projects like this, you don't look for simple suppliers,
but for trustworthy partners."**

- Zarko Milic, Production Manager herzog systems ag

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The result

Through its collaboration with SCHÜSSLER, herzog systems ag was able to achieve significant improvements:

- **50 % longer tool life** without changing the machining parameters
- **30 % increase in the number of shrink processes** until the tool holder is changed
- **90% time savings in the shrinking process** compared to air cooling
- **20% lower storage costs** thanks to durable tool holding systems



The team also benefits: "The employees are enthusiastic about the professional tool-manic shrinking device. There are no more overheated holders, and thanks to the three cooling bells, you save a lot of time," emphasizes Zarko Milic.

From left: Zarko Milic, Production Manager at herzog systems ag; Andy Broghammer, Head of Global Sales & Marketing at Karl Schüssler GmbH & Co. KG; Muharrem Krasniqi, Head of Machining / Member of the Executive Board at TAFF TOOL AG

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The conclusion

SCHÜSSLER impresses with its well-designed, high-quality product range, easy access to the necessary CAD data, and trustworthy cooperation with excellent delivery reliability.



„Even two years later, I still stand by my decision to choose SCHÜSSLER tool holders and the tool-matic shrinking technology. The addition of 'μ-maker' to the logo is no coincidence!“