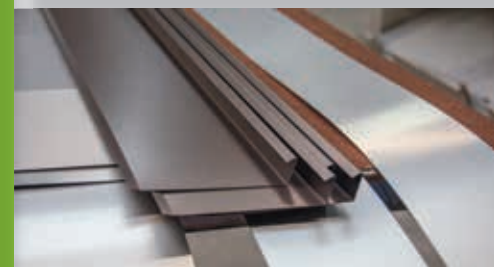


Role model for digitization in handicraft businesses

Hermann Dagn GmbH with integrated sheet metal processing in prefabrication



User

The family business Hermann Dagn GmbH is a medium-sized handicraft business based in Kössen/Tyrol. The almost 60 employees of the plumbing company work on construction sites in all parts of Austria. They also have customers in the neighbouring Bavaria, at the lake Garda or even in London. Roofs and facades are produced for lifts, hotels, industrial buildings, public administrations or even schools and private houses. The team at Spenglerei Dagn and its prefabrication show how networking and innovative technologies can be used in handicraft businesses – and how customers and businesses benefit from them. (www.dagn.at)

Success

The company Dagn has a long-standing partnership with Hans Schröder Maschinenbau. A Schröder shear which has been purchased in 1978 still provides great service in prefabrication. Other Schröder machines complete the machine pool. When Hermann Dagn GmbH was considering the purchase of a cutting line and its integration into the Bendex software, it was only apparent that they also started thinking of connecting the Schröder folding machine PowerBend Professional they purchased in 2015.

Used machine

PowerBend Professional

- Folding machine
4,000 x 2.5 mm
Sheet thickness (400 N/mm²)
- Working length 4,040 mm
- Up-and-Down folding beam
- Rotating clamping beam
- POS 2000 Professional graphic control
- Bendex-Software

The basic idea behind the Bendex software is to integrate the entire working process in one software, from the first customer enquiry to quotation and production control to invoicing. „We can respond very quickly to most enquiries because most components for roofs and facades are often variations of elements already existing in CAD. A few adjustments to the dimensions and the quotation is ready. And the best thing is that if the customer then places the order, we can directly control the production and the machines,” says Alexander Lehnen.

To make this work, Schröder connected its own self-developed software of the PowerBend Professional to the Bendex software. An extensive project: Until the release at Hermann Dagn GmbH, the software engineers at Schröder and Bendex developed and tested for almost one year. With success: Now the sheet metal bending process can be started from the Bendex software and the precision of the machine and efficiency-increasing options such as the Up-and-Down folding beam can be used to the fullest extent. An integration effort from which other customers of Schröder machines and the Bendex software will also benefit in the future.

„Our prefabrication is completely integrated via the Bendex software from CAD drawing to shipping – including the control of the machines. This has enormous advantages. The preparations of the material for the construction sites not only run considerably faster, everything also runs much more transparently and reliably”, says

Alexander Lehnen
Manager prefabrication

Bend Professional. The blanks for a construction site are collected, assembled and prepared for transport. The shipping documents, including weight, etc., also come from the software.

Future perspective

„We are all about securing the future. With Schröder machines, we guarantee the highest quality in machining. We are now increasing our productivity through digitization and integration. At the same time, we are opening up opportunities for growth. Today, we process around 100 tons of sheet steel per year. In two years, we want to increase to 160 tons, also because we want to offer prefabrication services to other handicraft businesses,” explains Nadine Dagn. „On the long term, we're aiming for tinsmiths to be able to enter their CAD data directly into Bendex via our online store and then receive costs and delivery dates immediately and automatically.” An unusual path for a medium-sized handicraft business. And a path that is already receiving a lot of attention in the industry and at chambers of trade and is being promoted by government agencies via digitization bonuses.

More information about Bendex at www.bendex.at.

The entire process in the small prefabrication is digitized and networked. It is controlled via the Bendex software from the Austrian supplier MicroSea System Solutions GmbH – from the first drawing, cutting and sheet metal folding to transport to the construction site. And so the system for cutting to size, a Krasser Centurio, begins pulling the right sheet from one of the coils and cutting the parts to size. In one go, a data matrix code is printed on each blank. An employee takes the cut sheets and scans their codes on the Schröder PowerBend Professional folding machine. This automatically calls up the associated bending programs and the employee begins the bending process after inserting the sheets. Each step is visualized on the monitor of the Power-



Schröder Group

The Schröder Group consists of Hans Schröder Maschinenbau GmbH, located in Wessobrunn, Germany, and SCHRÖDER-FASTI Technologie GmbH, located in Wermelskirchen, Germany.

Founded in 1949, Hans Schröder Maschinenbau GmbH combines traditional and modern aspects in mechanical engineering. Successfully managed as a quality and customer-oriented family company, Hans Schröder Maschinenbau specialises in the development of modern machine concepts for folding and cutting sheet metal.

Thanks to the 2006 integration of the Fasti Company and its workshops and a global presence, the Schröder Group is now a leading provider of machines for folding, cutting, crimping, beading, and circular bending sheets of all kinds. The diversity of the range of precision machines ranges from proven solutions for trade to innovative, high-performance machines for automated industrial production. The Schröder Group now employs more than 270 workers at various domestic and international locations.

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