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THE SPECIAL SOLUTION FOR STANDARDIZATION

**METAL PROCESSOR SCHNÖRING CONVERTS
TO MQL SYSTEMS FROM HPM**

The Special solution for standardization

Metal processor Schnöring converts to MQL systems from HPM

The oiling for thread forming and spraying of metal strips has caused problems in the past at Schnöring, a renowned producer of springs and punch-bending parts. Problems that subsequently caused unplanned costs. „The trigger at the origin was the thread cutting units used,“ explains Dennis Waniczek, who is responsible for Bihler production at the Schalksmühler parts manufacturer as sub-division manager. Originally, the classic drip-dryers were used in production. Classically, classic problems associated with this conventional technology also mean classic problems in this combination. „The system has repeatedly applied different quantities. It is not uncommon for the machines to run dry,“ recalls Dennis Waniczek.

The first drip oilers for thread cutting units were then replaced by products from HPM Technologie. The basis of this newly used technology is the minimum quantity lubrication, which, as Dennis Waniczek assures, gives the company several advantages. The spray heads of the HPM product series LEO are used for the thread cutting units. A spray head for the dosed and fine-film application of liquids in the low-pressure range. In the daily practise the scaled measuring drum which sets and checks the spray quantity is particularly valued. In addition, with this new technology, it was possible to drastically reduce oil consumption at Schnöring, which of course sustainably reduces costs and is more environmentally friendly. At the same time, emissions are reduced in the production facilities, which is particularly beneficial for the health of employees. But the significantly increased service life for the tools and thread cutting units also has a lasting positive effect on the cost structure.



Spray block with three integrated spray heads of the HPM product series LEO

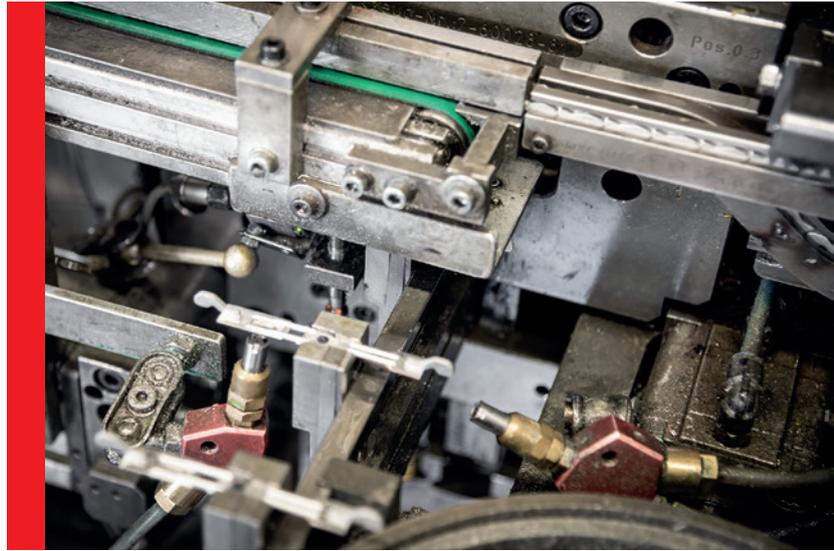
Standardization of the entire production

Setting the spray quantity on the LEO spray head using a scale, thus using a defined value, and the associated possibility of reproducible amount gave Dennis Waniczek the idea of standardizing the oiling in the entire production. When changing tools, the defined quantities can be precisely adapted to the product to be manufactured. The annoying fine adjustment of the spray amount should be a thing of the past.

The spray heads for the Bihler machines were standardized step by step. In addition to tools, in which thread cutting units are used or thread forming units are installed, standardization should also be implemented for spraying the metal strips.

Customized special solutions

For example, the Bihler RM 40K machine at Schnöring is equipped with different bandwidths. The aim of the project was to be able to lubricate all bandwidths with just one spray head. Dennis Waniczek informed the application engineers from HPM about technical and structural requirements. In Dettingen, the headquarters of HPM, a customer-specific special solution was then developed for Schnöring. "As result we developed a spray block with three integrated spray heads", explains Steffen Hoffmann, member of the management at the Swabian company. According to the width of the metal band that is used the numbers of used spray heads can be customized individually. With this opportunity its possible to lubricate larger bandwidths with just one spray system.

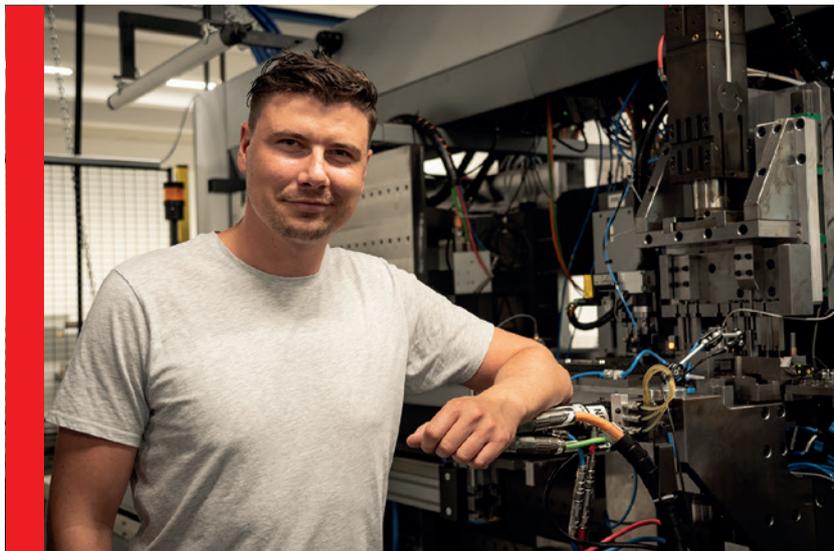


Spraying of the metal strips with spray heads of the HPM product series HTR

"This special solution is built very compact", says Steffen Hoffmann as an advantage that only uses one supply line for the air and liquid supply. "The installation effort for laying is very low and takes up little space in the machine. Space, which is usually only available to a very limited extent with Bihler machines. Meanwhile the project of standardization is very advanced at Schnöring. Nine machines from Bihler have already been converted to HPM technology. We have also converted two punching machines from the manufacturers Bruderer and Schaal to MQL technology", emphasizes Dennis Waniczek

Good on-site service is important

An important aspect in the implementation of the project, which was planned to run for several years, was the good and intensive support of the HPM application engineers. "Good on-site support is essential for such a project", said Waniczek, praising the very fast technical implementation of the special solutions commissioned. "In addition to the standard catalog goods, the development of customer-specific developments is an important pillar for our company", says Steffen Hoffmann. When developing new standard products and customer-specific special solutions, the focus always on sustainability. "Economic and ecological sustainability are not mutually exclusive, but are an essential art of our product and development philosophy.



Dennis Waniczek, Head of Bihler Production, Schnöring GmbH



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