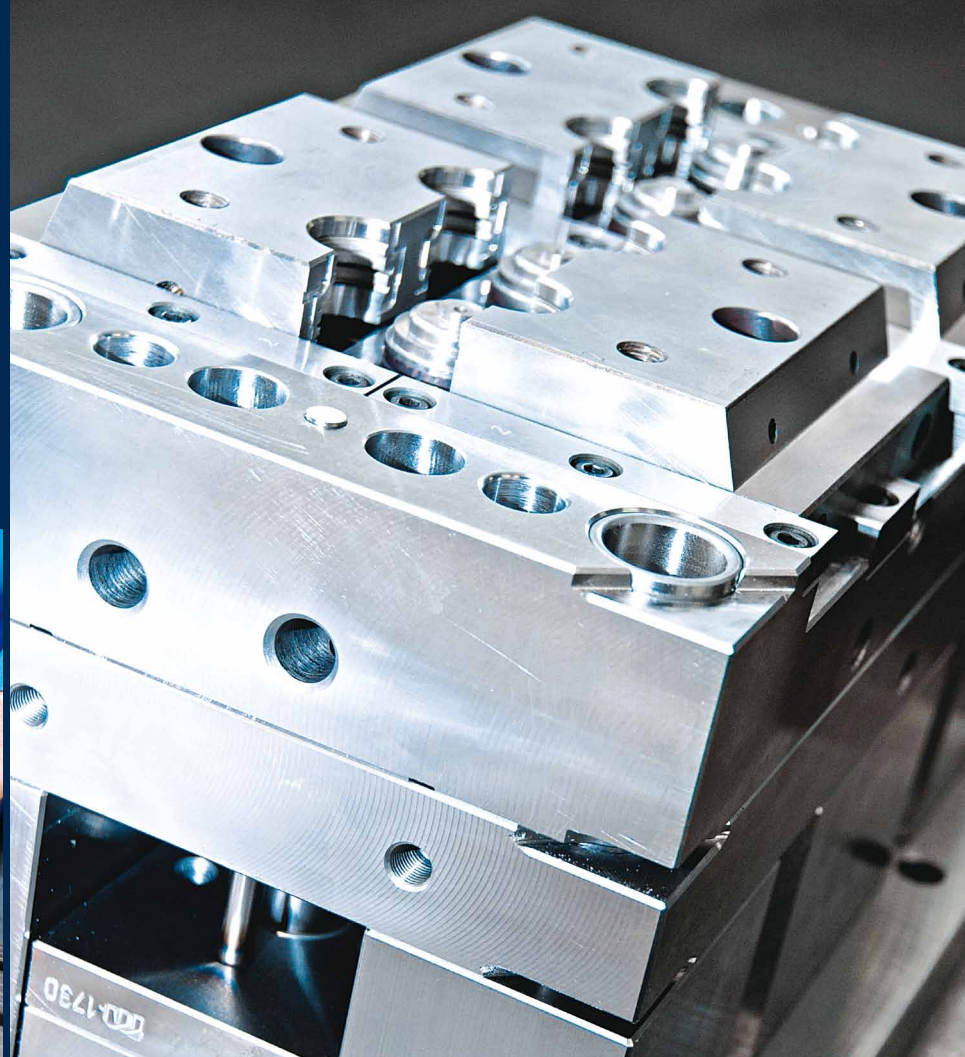




Hans Heinlein Werkzeug- und Formenbau GmbH processes hardened tool steels using RS 505.



A precision tool of Hans Heinlein Werkzeug- und Formenbau GmbH: Here, the ejection side with spool.



Hans Heinlein-Müller explains the operation of this injection moulding tool to Roland Heid and Dennis Hempelmann (see on the left).

# Combined work space brings the greatest possible flexibility

The Greater Nuremberg area has been known for its toys and electronics manufacturers since the 1930s. With the rise of the industry in Franconia, the number of suppliers also grew: Contract manufacturing companies and tool-making and mould-making companies can be found here today in large numbers. One of these traditional workshops is Hans Heinlein Werkzeug- und Formenbau GmbH, founded in 1931.

Even when many well-known manufacturers have long since abandoned their production facilities in the Nuremberg metropolitan region, with 80 years of know-how in tool and mould-making the small family company Hans Heinlein from Zirndorf quickly found new customers. Today, the engineer Hans Heinlein-Müller with a ten-strong team works for system suppliers of the automotive industry and medical technology industry as well as for well-known manufacturers of packaging for cosmetics. He specializes in precision injection moulding tools for thermoplastic and duroplastic materials and pressure die casting tools and progressive tools.

## Processing hardened steel

“We produce moulds and tools that can be used to produce extremely large quantities. This is why we often use very robust, wear-resistant materials”, explains Manfred Löffelmann, CAM programmer and machine operator in Hans Heinlein GmbH. To be able to process the hardened tool steels even faster and especially precisely, Hans Heinlein GmbH invested in 2012 into a machining centre RS 505 by HEDELIUS. “We clearly gained flexibility in the production with the new machine. This is important because we often process very special parts almost exclusively as single pieces or small series”, said Löffelmann, in appreciation of the combination of a three-axis and five-axis working area. Digital drives, spindle speeds of up to 24,000 min.<sup>-1</sup> and high-performance CNC control are the prerequisites for also being able to produce complex workpieces in a maximum of two set-ups.

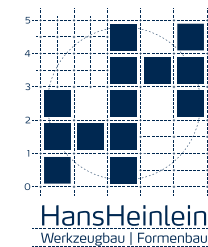
## On a high technical level

Profile sanding, circular grinding, CNC milling, five-axis milling or eroding – Hans Heinlein Werkzeug- und Formenbau GmbH

can cover a wide range of procedures for metal processing in-house. Additional capacities built in the last few years are used for hire work today. For Hans Heinlein it is all about: Precision. “And for us it starts with plus/minus one hundredth”, said Löffelmann. “We manufacture on a very high technical level. For example, we can manufacture boring tools with up to 16 cavities,” adds the workshop foreman Jörg Förster. Correspondingly high are the demands on the staff and the technology used.

## Reached mould-making

During a visit to Zirndorf HEDELIUS Managing Director Dennis Hempelmann was pleased to find out about satisfied users. Together with Roland Heid, regional representative of HEDELIUS, he was impressed by the Hans Heinlein tools: “Tool and mould-making is a very demanding craft. It is nice to see that HEDELIUS has also reached this industry.”



## Hans Heinlein Werkzeug- und Formenbau GmbH

Precision tool-making  
and mould-making

Established: 1931

Company headquarters: Zirndorf

Employees: 10

HEDELIUS RS 505