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Wire-cut EDM as
a key technology
(More information
on S. 6-7)

(Picture:
Mitsubishi Electric
Europe B.V.)

Precision trio inspires innovation together through successful partnership

The applications in which stamping and forming or embossing tools are required are manifold: For example, the production of many everyday objects, such as components for electronic or household devices as well as the automotive industry, would not be economically possible without these tools. This is because they are usually intended for mass production, where they must deliver maximum performance every (milli) second and demonstrate a long service life. To meet these requirements, MPK Special Tools GmbH in Schwäbisch Gmünd manufactures high-quality active parts for stamping and forming with precision tools from ZECHA Hartmetall-Werkzeugfabrikation GmbH from extruded carbide from EXTRAMET AG with maximum technological

diversity. Together, the three long-standing partner companies break new ground every day.

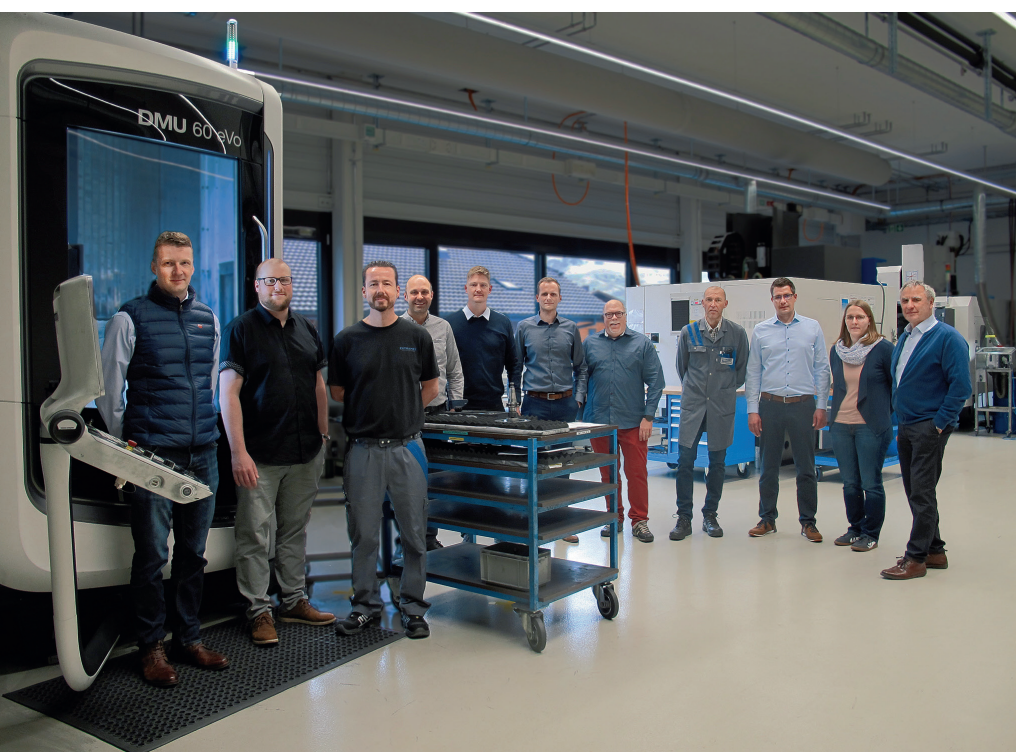
“Especially customer requests that differ from the standard pose major challenges with regard to surface quality, service life, and reproducibility, which we are happy to take on. Our goal is to work together with the customer to implement solutions for its specific applications with the smallest tolerances and exacting manufacturing tasks in the best carbide,” explains Arndt Fielen, Sales Manager at MPK Special Tools. Thanks to the certified raw materials from EXTRAMET, the μ -precise tools from ZECHA, and the combined know-how of the three experts, MPK Special Tools offers customers security from project conception to final application and analyzes,

develops, and manufactures the ideal solution based on customer drawings using a wide range of technology combinations in milling, grinding, and eroding.

For more than 40 years, EXTRAMET AG has been concentrating continuously on its core competence: the production of high-quality carbide. In doing so, it relies on innovation, precision, and high technology. The product range, like the entire company, has constantly evolved. In the past, solid carbide rods were mainly manufactured for the tool industry, but today EXTRAMET offers its customers and partners, in addition to a comprehensive product range, primarily tailor-made solutions for their individual needs.

As a solution partner for the high-tech industry, the carbide specialist supports its customers in optimizing production processes and saving manufacturing costs. Highest precision, coupled with carbide in top quality, makes the independent family business the ideal partner for companies that also place the highest demands on their product. Quality and reliability represent a principal component of the corporate philosophy.

Because only through consistent and uniform quality of the carbide blank can process-stable tools be produced that offer a high level of safety for the end customer in use. MPK Special Tools GmbH has been an expert in precision technology for over 60 years. Manufactured according to customer drawings,



Experts from EXTRAMET, MPK and ZECHA (Picture: ZECHA)

the holistic tool and complete solutions made of carbide and steel are characterized by the highest precision in any quantity. Stringent quality controls as well as unwavering adherence to deadlines and deliveries are essential for the success of customers, especially in sensitive industries. The services for the purchase of a tool from MPK Special Tools include on-site presence, direct exchange with the customer at the machine, and the resulting consulting and service – versatile, accurate, and individualized.

ZECHA Hartmetall-Werkzeugfabrikation GmbH is among the pioneers and trendsetters in the field of micro cutting, blanking, and forming tools. The company's origins in the chronograph industry can be seen not only in its uncompromising specialization in the production of miniature tools of the highest precision, but also in its sophisticated special tool solutions. Precision and quality are key for the international employment in different industries, such as, for example, medical and dental technology, the chronograph industry, the automotive industry, or in tool and mold making. Experts in the company's own research and development department are constantly developing groundbreaking geometries and tools for sophisticated applications and innovative materials.

In addition, tool reproducibility is also guaranteed even for years on account of the life number stamped at the end of the shaft of every tool. Modern CNC machines, high-end measuring and testing technologies, and carefully selected carbides from leading manufacturers, as well as intensive cooperation

with our customers and partners, ensure the exceptional perfection of our tools.

Thanks to decades of joint experience and cooperation, EXTRAMET, MPK Special Tools, and ZECHA ensure excellent results in stamping and forming technology. Maximum process reliability, increased service life, and surface quality while simultaneously reducing production costs are (thus) guaranteed. The close partnership makes it possible to meet individual customer requirements quickly and flexibly, because the smooth interaction of the individual components

is decisive for success.

The individual areas from prototype to series production are optimally coordinated through direct communication between the specialists at EXTRAMET, MPK Special Tools, and ZECHA. The three companies continue to combine their expertise in order to develop reliable solutions for their customers through internal investments and expansions. The matching of carbide grades and geometries to a wide variety of applications, new manufacturing processes, and materials to be machined will continue to have top priority in the future.