



Innovation by integration

ZIMK is an expert in producing innovative composite products for the automotive and electronics industries

With more than 200 employees using state-of-the-art production technologies, Zehdenick Innovative Metall und Kunststofftechnik (ZIMK) specialises in innovative compound products made from metal and plastic. From product development and tool manufacture through to fully automated stamping, plastics technology and complete assembly techniques, the company offers all its services from a single source. ZIMK's two component solutions are successfully applied above all in automotive, electronics and communication products.

In addition to this, more than ten million lead frames leave ZIMK's plant, north of Berlin, annually for applications in anti-skid, ESP and

transmission control systems, clearly making the company one of the market leaders in its field. The organisation has gained this success through the quality, reliability and cost efficiency of its products and services. Furthermore, through ZIMK's quality management system, which is certified in accordance with TS16949, the company makes certain that this will remain the case in the future.

ZIMK also develops individual assembly concepts taking into account the specific requirements with the greatest possible efficiency and effectiveness. Even special applications such as fully automatic painting, HV testing, punching of lead frames and complete installation of assemblies, including cable harness integration are integral parts of ZIMK's capabilities. Furthermore, the equipment of diodes, LEDs and

resistors on insert moulded lead frames have been integrated in the company's automatic lines.

For ZIMK, operational reliability and production quality of the final product is primarily determined by stamping technology. Here, the way is paved for all subsequent work steps. Therefore, the company's stamping technology is characterised by uncompromising precision through highly developed automation processes with optical and electronic monitoring.

With press forces of 18 to 400 tons, ZIMK can stamp, deep-draw, bend and emboss material with thicknesses from 0.07 to four millimetres. The company also utilises high quality and tested materials, such as copper, steel, stainless steel, aluminium and special alloys. To optimise this manufacturing cost, ZIMK includes many production steps in the stamping process – from application of welds or integration of joining processes to de-chipping and cleaning.

Furthermore, the company's plastics technology department uses state-of-the-art equipment. Whether 2K technology, fully automatic reel-to-reel insert moulding, automatic parts packaging or process-accompanying testing – ZIMK integrates all necessary work steps in the production process after determining the layout with its customers. Even the bending and punching of filigree lead frames is included in the injection moulding process. In addition, horizontal and vertical machines with clamping forces of 25 to 175 tons are also available from ZIMK.

As an expert in stamped and composite products, the company delivers high-grade precision parts, which are tailored to its customer's applications and requirements. To help ZIMK achieve this, the company has some of the most modern production technologies around manned by a workforce, which is both extremely motivated and highly experienced.

ZIMK believes that its combination of highly advanced technology, innovative production procedures, many years of experience, skilled knowledge and know-how provides the basis for its efficient, customised

product solutions. From ZIMK's first contact with its customers through design ideas, planning and process development, the company's optimised processes and the co-operation of all its employees guarantees successful solutions regardless of the application.

In ZIMK's compound technology, precision, reliability and high production rates can only be achieved through optimum interaction between product development and tool manufacture. Therefore, the company's project management system is based on experience gathered over decades in the manufacture of sophisticated tools and fixture concepts. As a result, the company can guarantee its customers optimum processes and project development at all times. With innovation being an important

focus for the company, ZIMK has recently developed a new injection moulding process for the production of composite construction parts, which integrates different electronic components. The process makes it possible to perform the separating treatment for the metallic component of the plastic metal construction unit as well as the stamping, cutting, coining or shaping, during the same injection moulding process. This is a crucial advantage for ZIMK's customers as the company can now successfully achieve two manufacturing steps at the same time, which provides much higher productivity. This process is mainly used for the automobile industry but the processes outstanding versatility means that it can also be applied to the production of washing machines and electric cookers, therefore ZIMK

believes this process has good opportunities for future growth.

Through continuous innovation, investment into the company and excellent customer service, ZIMK saves its clients time and costs to help them improve their competitiveness. Therefore, in the future, ZIMK believes this will help it to become the market leader in its niche and to continue to grow successfully. ■

Bruderer

To be successful it is sometimes necessary to leave well trodden paths - this is the knowledge that has driven Bruderer's development of the new BSTA 200 series. A successful company is one that carries through strategic realignments, possibly against massive resistance, and patiently holds to its mission until it becomes reality – and this does not just apply to stamping technology! For the challenges that lie ahead we offer you much commitment and a strong innovative driving force.



Welcome to the world of high performance stamping.

Welcome to BRUDERER.

"Made by BRUDERER" is a guarantee that has, over the past six decades, become a worldwide synonym for outstanding precision, performance, reliability and highly efficient stamping technology. BRUDERER customers also

profit from the unequalled durability of the stamping machines. The proof of this is a large number of satisfied customers – who have been using our products for decades – from diversified fields, including the connector

industry, watchmaking, automotive and lamination industries. No matter how complex your application is, the worldwide BRUDERER team will find a solution that serves your needs efficiently and effectively.

BRUDERER GMBH

Kieferstr. 28 · D-44225 Dortmund
Tel. +49 231 79 20 22-0 · Fax +49 231 71 91 53
info@de.bruderer-presses.com

BRUDERER AG

Egnacherstr. 44 · CH-9320 Frasnacht
Tel. +41 71 447 75 00 · Fax +41 71 447 77 80
info@ch.bruderer-presses.com

www.bruderer-presses.com