



**DIEHL**  
Metal Applications

**OVERMOLDING**



# METAL-PLASTIC COMPOUND SYSTEMS



**Diehl Metal Applications (DMA)** is specialized in the development and manufacturing of innovative composite products made of metal and plastics. Our products are used to connect electronic systems in parking sensors, ABS, ESP and transmission control technology, in the central electric system and in the lighting and connector modules.

Customer-specific products are manufactured on the basis of a production concept developed by DMA that integrates all necessary working steps:

- Insert molding
- Fully automated reel-to-reel overmolding or single parts
- In-process inspections
- Parts packaging

Even the bending and stamping of filigree stamping grids can be incorporated upstream and downstream of the injection molding process.

Thanks to our tool and stamping center, small quantities for pre-series production, prototypes and serial production involving large volumes can all be produced in an economic way.





## FLEXIBLE CONCEPTS

# OVER 60 AUTOMATED INJECTION MOLDING MACHINES

We continuously develop customized manufacturing concepts – such as high-performance workpiece carrier circulation systems for projects with high volumes. Even modular production concepts are possible, which can be expanded based on volumes. Furthermore, we provide downstream and completely integrated operations, such as the fully automated assembly, measurement, quality control and packaging of electronic components.

The manufacturing concept developed in-house allows specific components to be changed easily, thereby enabling fully automated production even for medium volumes. Our customers thus profit from a reasonable part price with comparatively low investment costs.



# QUALITY AND CERTIFICATION

Our automated production processes ensure consistent quality across a long lifecycle. When it comes to quality-relevant characteristics, we carry out 100%, in-process and product-specific inspection scans. A 3D measuring machine is also available for quality assurance purposes. Besides this, our quality management system is certified according to ISO 9001 and IATF 16949.



# PRODUCT DEVELOPMENT

Our team of experienced product developers and tool designers is active as early as the product development phase to ensure optimally coordinated product design with respect to technology, quality, costs and ecological production.

To provide support with regard to serial production, we produce customer-specific prototypes. The prototype can be promptly tested and analyzed in the laboratory before being optimized on the basis of the results.

We can draw on the following technical possibilities to achieve optimum development performance:

- CAD programs: SolidWorks and CATIA V5
- FEM analyses
- Moldflow®
- 3D printing



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