



Innovation grows  
in a team



## Competence for developing innovative solutions with plastics

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### From idea to maturity for series production

Bringing new products to market maturity in a short period of time – the standards set for the new development of components and assemblies are higher today than ever before. As a renowned developer and manufacturer of small and very small molded parts, of precision and design parts, micro drives and mechatronic assemblies,

OECHSLER has set new standards in many branches of industry – from medical care and automotive to communications, to fine mechanics and drive technology. OECHSLER offers the full range of services from development to the final product – in short time, faithful to deadlines and convincing as regards quality and price.

[www.oechsler.com](http://www.oechsler.com)

### Know-how for all branches of business

• For example **Medical Care:**  
The inhaler for asthmatics by 3M, which we manufacture, assemble and test fully automatically, and new developments such as the blood-sugar meter by Roche or devices for blood analysis have been brought to market maturity with the co-operation of the OECHSLER development teams. The mixing system for artificial bone cement to be used in the operating room was also a development by OECHSLER, which we implemented from design and mold-making to fully automatic assembly and quality testing.



Noise measurements



Preparation for the climatic test

• For example **Communications:**  
As a longtime partner of the leading manufacturers of this branch OECHSLER offers a decisive advantage: The application of state-of-the-art techniques such as multi-component injection molding, insert molding and IMD (In-Mold-Decoration) enable innovative products to be developed and manufactured cost-effectively from one source.

• For example **Automotive:**  
OECHSLER is a development partner of the suppliers to the European Automotive industry in respect of numerous safety-related components such as brakes, headlamp modules and special lamp holders. High reliability, high load capacity, long life as well as weight and cost reductions, e.g. by substituting high-tech plastics for metals are the very basis of our new developments.

State-of-the-art techniques and methods reduce development times

## Core competence: drive technology and mechatronics

We cannot imagine a lot of business branches today without mechatronic miniature drives and so-called actuators, i.e. subassemblies that convert electronic commands into mechanic motion. They are highly loadable, compact and low-cost in manufacture and assembly. Today a passenger car alone has more than 100 of these actuators, used for instance for the adjustment of seats and headlamps or the drive of air conditioning systems, doors, windows, central locking systems ... For that purpose OECHSLER develops the whole range of micro drives and actuators, from the worm drive, spur gear drive, plan-

etary gearing and rack-and-pinion drive to innovative solutions such as WAVE DRIVE and swash gear drive.

OECHSLER drive systems and actuators control the central locking system, outside mirrors, tilting headlamp holders or the highly loadable electronic parking brake made of high-temperature plastics. Even the actuator for curve-following headlamps of passenger cars and commercial vehicles, which provides for more security if the course of the road ahead is winding and complex, was co-developed by OECHSLER engineers: a trend-setting project with our longtime customer Hella.

## We have the experience and technology

*OECHSLER provides highest development quality using the latest CAD systems and FMEA tools for prevention of failures, simulation programs, various methods of Rapid Prototyping and comprehensive tests concerning function, performance and life time.*

Not only will we develop components and assemblies according to your drawings – our teams also will continually support you through the whole process: from the first draft to a plastics-conforming design, to calculation of plastic parts and assemblies, to the selection of the best material.

And we will additionally use our know-how to act as a co-developer in your projects. Or we will take on the job of carrying out a complete development according to the tender specifications or to your own specifications, if requested.

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## OECHSLER – Development at a glance

- Development of micro and precision components, assemblies, miniature drives, actuators
- Advisory service in the choice of material and design
- Construction and Product FMEA for the prevention of failures
- Rapid Prototyping
- Substitution of highly loadable / low-cost plastics for metals
- Simulation programs for gear-tooth layout
- Functional and performance tests, structure-borne noise measurements
- Services for partial or complete developments

Locations:

### Germany

- Ansbach  
- Weißenburg  
- Küps

### China

- Taicang

### Romania

- Lipova



Our Ansbach Headquarter

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