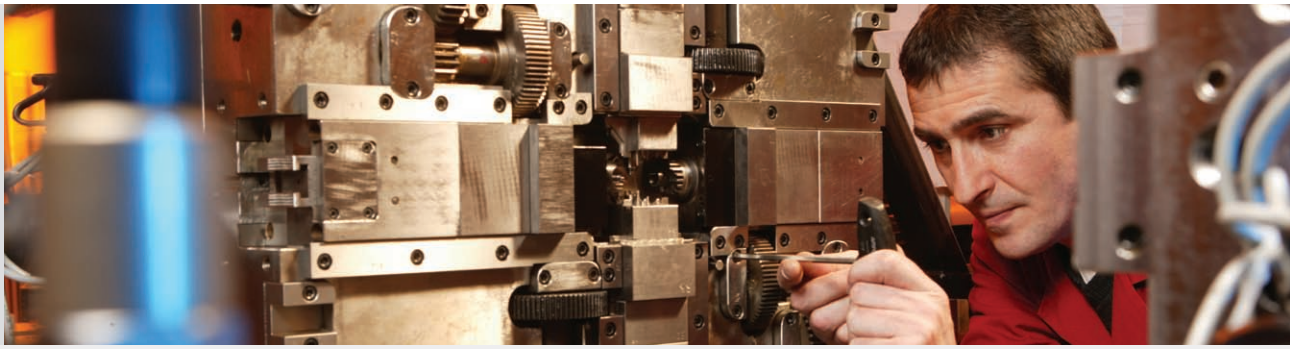


Core competence: precision tools

High-performance tools for precise and integrated moldings

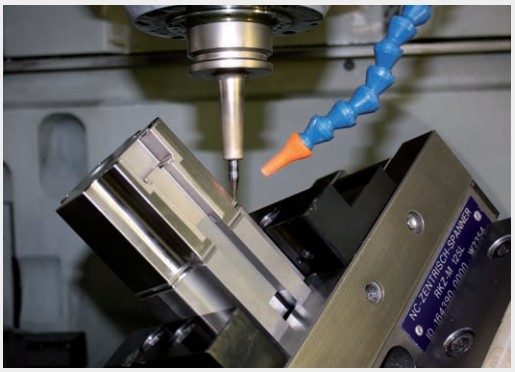
For any special application

Medical solutions by 3M, carrier components of optical systems for Carl Zeiss Jena, drive and control technology for Bosch ... European market leaders and suppliers rely on precision moldings from OECHSLER – produced in injection molds made by OECHSLER. In Europe, OECHSLER ranks as one of the few technology leaders that master the whole spectrum of specialized tool making.

We draft, design and build special tooling, e.g., for powder/ceramic and composite injection molding or in-mold assembly (multi-component technology), for high-precision parts such as small gearwheels, worms and other miniature drive components. We build tools for Polymer Bonded Magnets (PBMs) as they are used in sensor and actuator applications; tools for skew bevel and special gearings, screw-out molds for integrated plastic threads, and tools featuring complex slide techniques ...

Our tool making know-how covers almost any special application

In brief: our know-how covers almost any special application, from miniature tools for micromechanical plastic parts to IMD-tools weighing over a ton for products with integrated component decoration.



Fully automatic milling of complex electrodes

How to obtain the best mold

By the time that hot plastics runs for the first time into the tool, an injection mold made by OECHSLER has gone through hundreds of work steps. To make this highly complex process efficient, time-saving and as cost-effective as possible, every single development and manufacturing step is meticulously planned and then implemented in parallel running processes based on the division of labor. With state-of-the-art computer-controlled design, manufacturing and inspection technologies; in automated round-the-clock operation; and with the extensive know-how of our specialists from the OECHSLER tool making center. In the planning stage, we first of all simulate the given data according to rheological, mechanical and thermal criteria.

We predetermine, e.g., the cooling, cycle and dwelling times, and use these findings for the tool design.

The process FMEA (Failure Mode and Effects Analysis) at the beginning of the design stage serves to detect and prevent possible sources of failure in the tool and production process very early on. The result is a tool which, in terms of quality, output quantity, economic efficiency, and gating is laid out in the best possible way. Then, the product and design data are entered into the CAD/CAM-systems, and via the tool engineering department they are directly passed on for the programming of the computer-controlled processing machines.

Computer-controlled ED machining for finest surface textures

Finally, in the production stage, the various tool components are manufactured on ultra-modern CNC machines and retested for dimensional accuracy before they are in a final assembly operation fitted together to form prototype molds and series tools.

Specialists for design, manufacture and maintenance

Today, the OECHSLER tool making segment employs more than 160 engineers, designers and toolmakers. Highly qualified teams with many years of experience, which - with professionalism, recurrent training, drive and energy - made OECHSLER tools to what they are today: the synonym for highest quality.

Our tool making specialists will not only actively support you in the development of new high-performance tools, but they will also use the same degree of care when it comes to maintaining, repairing and optimizing existing OECHSLER-tools – faithful to deadlines and in certified quality.

www.oechsler.com

Taking tool measurements for quality control

OECHSLER – Tool making at a glance

- High-performance injection molds for standard and special techniques
- Optimization, maintenance, repair of tools
- Functional samples, prototypes/prototype molds, series tools
- Process FMEA for the prevention of failures
- Development on CAD/CAM tools, fully automatic production on CNC machines
- Fully automatic HSC and Eroding cells
- Fully automatic production monitoring
- Short delivery times by work-sharing production in 3-shift operation
- Certified to ISO TS 16949

Locations:

Germany
- Ansbach
- Weißenburg
- Küps

China
- Taicang

Romania
- Lipova

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