

Integratable linear assembly



Joining techniques of certified quality

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More than just „fitting things together”

Process-safe assembly is a cost-relevant work step in the manufacturing chain of modules and subassemblies – especially in the case of systems that have to meet high quality requirements!

So, for OECHSLER, “assembly” starts as early as in the design stage where the conditions are created for fitting the individual components economically and efficiently together to form an assembly. In view of the growing number and complexity of the components, e.g. in micro drives or medical equipment, it is ever more important that the design is suitable for assembly line manufacture. Apart from classic assembly processes, we provide, inter alia,

technical services such as welding, riveting, cutting, and gluing with fully automatic assembly systems – including non-destructive testing, marking and packaging of the final product. Dependent on the required quantity, quality profile and complexity of the part, we employ fully or semi-automatic systems in order to achieve best possible results as regards product quality and economic efficiency. For this, we use automatic revolving assembly machines and linear transfer systems enabling flexible assembly sequences and, if required, expansion of the assembly steps – always optimally suited to your needs. For all assembly issues locations in Germany, China and Romania are at your disposal.

The more complex the assembly unit, the more important the design for assembly

The appropriate technique for any task

We assemble systems and subassemblies with a large variety of requirements, for all branches of business.

- For example **Medical Care:**

We assemble medical assemblies and devices of highest precision in a cleanroom environment. Our assembly lines with integrated test techniques are located in cleanrooms of different classes. As a matter of course the single part can be assigned to the complete assembly (traceability of batches). One success story is the inhaler for asthmatics. Every year OECHSLER manufactures approximately 20 million devices with and with-

out dose counter. The subassemblies which are made of very delicate parts with nozzle orifices of 0.2 mm have to operate on a

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Cleanroom with OECHSLER

100 % reliable basis and are fully automatically mounted under cleanroom conditions.

- For example **Automotive**:

We realize highest quality standards for our assemblies (e.g. position lights, headlight modules, actuators) as regards safety, stability under load and long lifetime by continuous optimization of processes and testing techniques integrated in the assembly process.

Among other things, we test in line the following features of our products: the torque of gear units, the tightness of housing parts after the assembly or the current drain of motors subject to load or not.

An example of a very complex assembly is the actuator for the electrical parking brake which OECHSLER manufactures for more than ten years. Technologies like the ultrasonic and resistance welding are used just as much as the handling of electronic components and the solderless electrical contacting of conductor plates (pressfit technology). Up to now, more than 15 millions of actuators have been manufactured and built in cars of the most different OEM's.

- **Marking and Packaging:**

For product marking we use, inter alia, datamatrix, barcode or plaintext – option-

ally with laser, ink-jet or dot-matrix printing and/or self-adhesive labels. In this connection, integrated camera systems check and document the correct sequence of operations. If required, we fully automatically package the assembled modules and supply them, for instance, in sealed nonoutgassing packaging, and, if requested, even in cleanroom quality.



OECHSLER assembly: Actuator for electronic parking brake

Assembly by OECHSLER

The implementation of complex assembly tasks is our strong point – assemblies perfectly processed at economic unit cost. The result is assemblies of highest certified quality, accurately produced to your specifications.

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OECHSLER – Assembly at a glance

- Assembly of modules, precision systems and miniature drives, subassemblies
- Manual, fully and semi-automatic assembly
- Rotary table systems, linear transfer systems, cleanroom cells
- Fully automatic welding, riveting, cutting, gluing, marking, packaging
- Handling and processing of electronic components
- Automated test techniques
- Traceability of batches
- Certified to ISO TS 16949 and ISO 13485

Locations:

Germany

- Ansbach
- Weißenburg
- Küps

China

- Taicang

Romania

- Lipova



Our Ansbach Headquarter

OECHSLER

Germany

OECHSLER AG | Matthias-Oechsler-Strasse 9 | 91522 Ansbach
Phone: +49 (0) 981 / 1807 - 0 | Fax: +49 (0) 981 / 1807 - 222

Partner:

Susanne Koepfelle | PR/Marketing

Phone: +49 (0) 981 / 1807 - 551 | Fax: +49 (0) 981 / 1807 - 290

email: s.koepfelle@oechsler.com | www.oechsler.com