



# OECHSLER

Company Presentation



# OECHSLER At A Glance

Driving polymer-based ideas into solutions – creatively, rapidly, globally

## 378

**MILLION EUR**

**TURNOVER**

62% AUTOMOTIVE  
34% INNOVATIVE SOLUTIONS  
4% HEALTHCARE

## 3,000

**EMPLOYEES WORLDWIDE**

**NUMBER OF EMPLOYEES**

55% IN EUROPE  
35% IN APAC  
10% IN NORTH AMERICA

## 80 %

**FAMILY - OWNED**

**OWNERSHIP STRUCTURE**

20% INSTITUTIONAL INVESTORS

## 44%

**REVENUE IN EUROPE**

**GLOBAL SALES SHARE**

43% IN APAC  
13% IN NORTH AMERICA

## 7

**PRODUCTION SITES GLOBALLY**



## 9

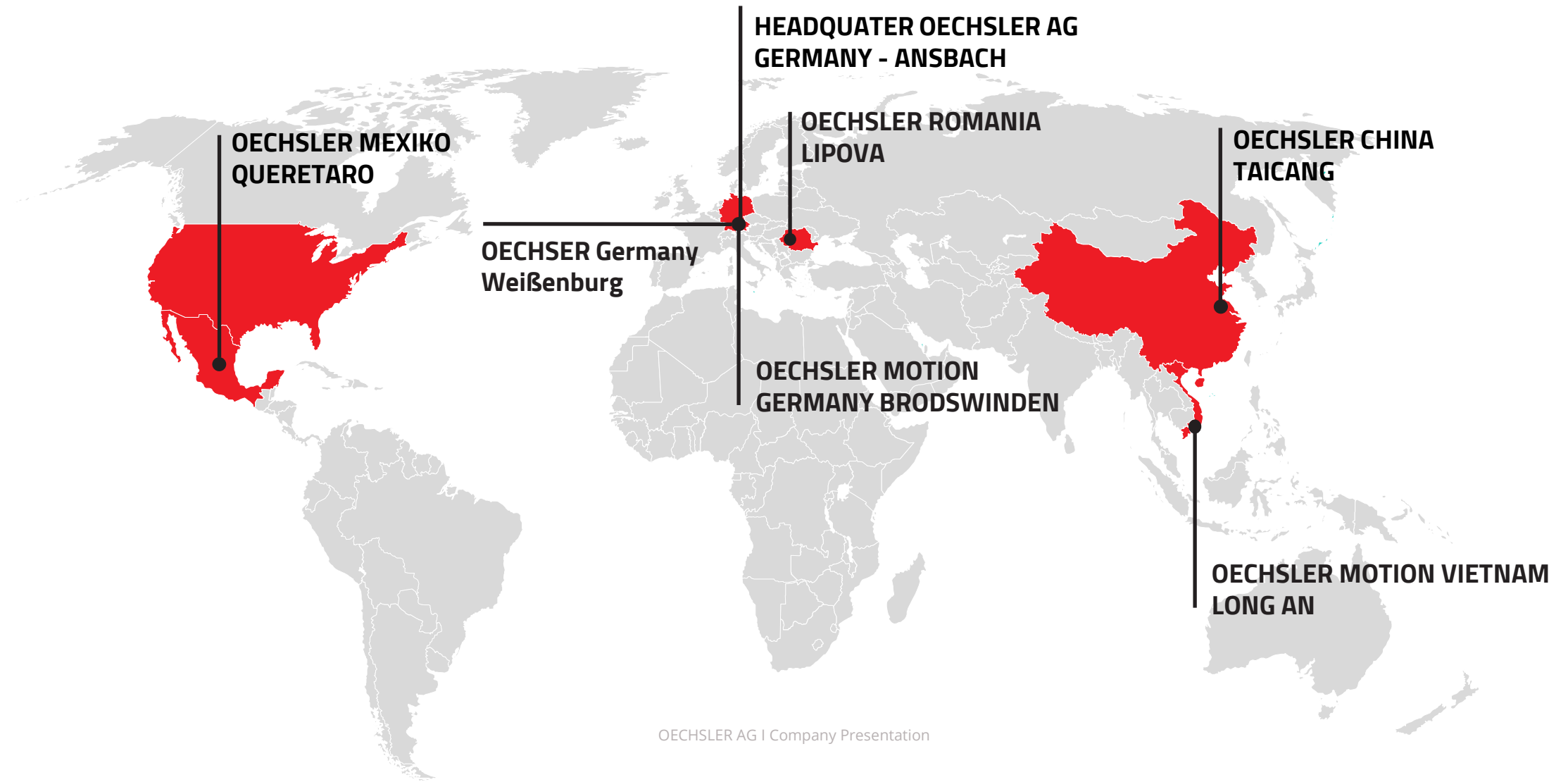
**AWARDS WON SINCE 2018**

**EXCERPT**

2018 ZF INNOVATION AWARD  
2018 BOSCH Global Supplier Award  
2020 Axia Best Managed Companies

# Global Production Footprint

7 production sites worldwide



# Reference Customers

Our customers. Our impetus.

AUTOMOTIVE

INNOVATIVE SOLUTIONS

HEALTHCARE

62%

34%

4%



# OECHSLER MEXICO

- QUERÉTARO (ESTABLISHED 2012)
- PROPERTY SIZE: ~ 14,480 M<sup>2</sup> (USED SURFACE: ~ 9,400 M<sup>2</sup>)
- SERVICES:
  - Manufacturing for automotive sector
  - Fully equipped laboratory
  - Toolshop
  - ISO 9001, IATF 16949, ISO 14001



# OECHSLER Mexico, Company Profile

## Development & Design

from a first draft to an approved product (done @ HQ)



## Technologies Processes

standard and special techniques

### Step I (done):

- ultrasonic welding
- resistance welding
- fully automated 100% end-of-line testing

### Step II (realization):

- injection molding
- insert technology
- tool shop

## Manufacturing & Assembly

Assembly of complex modules and production of required plastic parts (semi- and full automatical)



## International subsidiaries

Europe, Asia, NAFTA



▶ OECHSLER International is a one-stop-shop, offering customized solutions with plastics for high-tech products of different markets.

# OECHSLER Headquarters R&D Portfolio

OECHSLER provides significant R&D capabilities

Strong R&D department serving your needs in a holistic approach

**01**

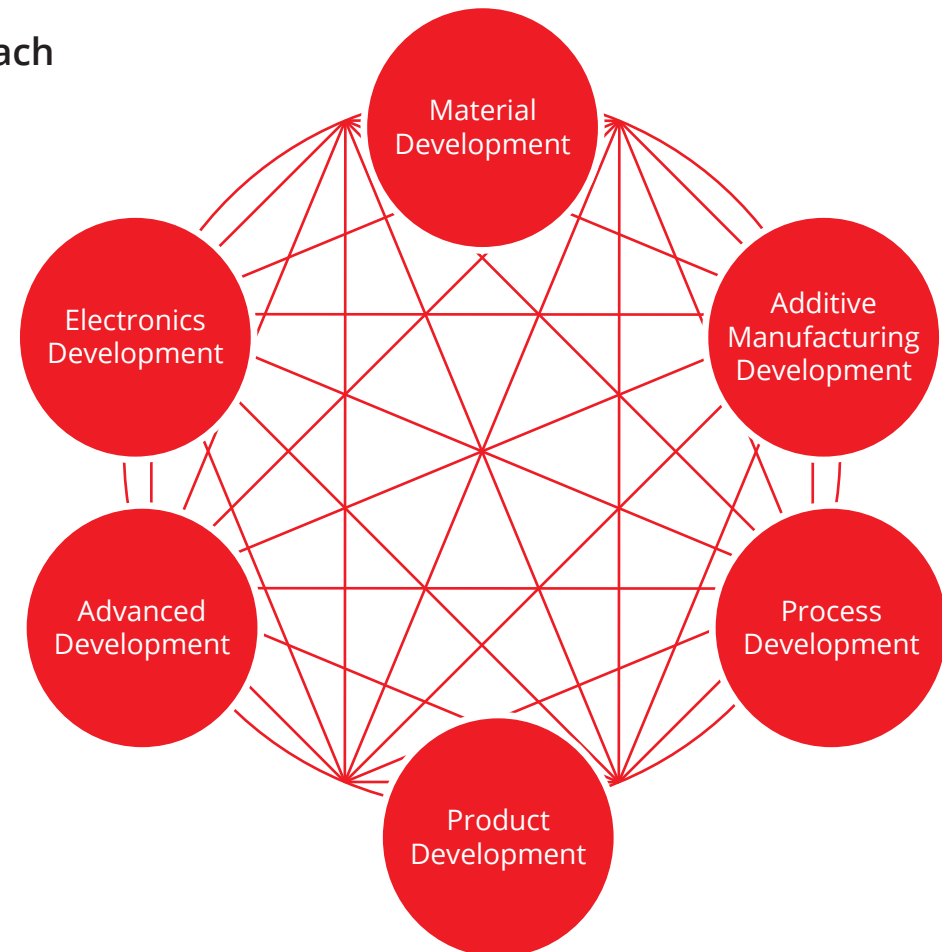
Six knowledge center working hand-in-hand

**02**

Globally more than 100 engineers in relevant disciplines

**03**

Research Hub in Nuremberg to ensure interdisciplinary advanced development

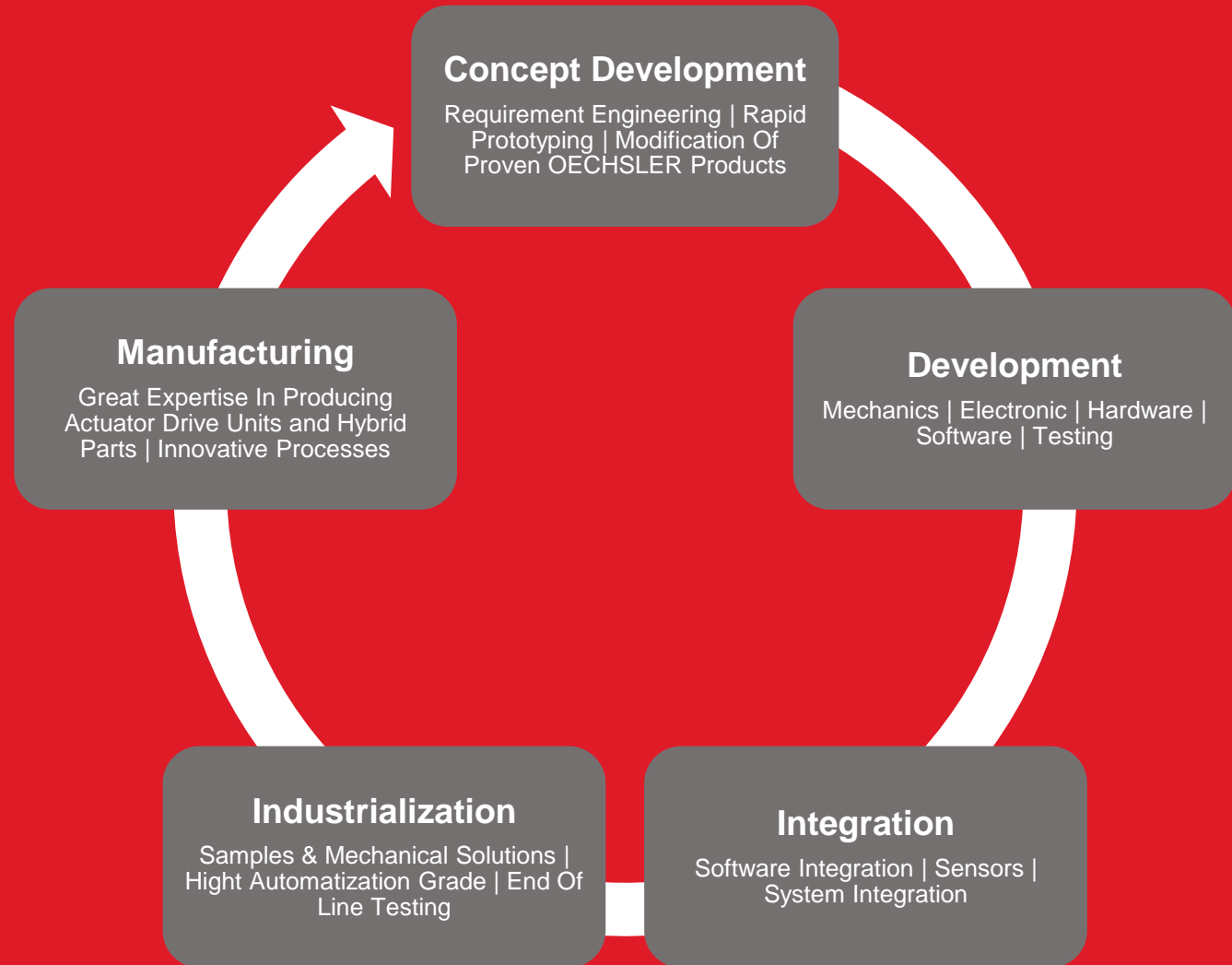


# Our Expertise

## OECHSLER Service Portfolio

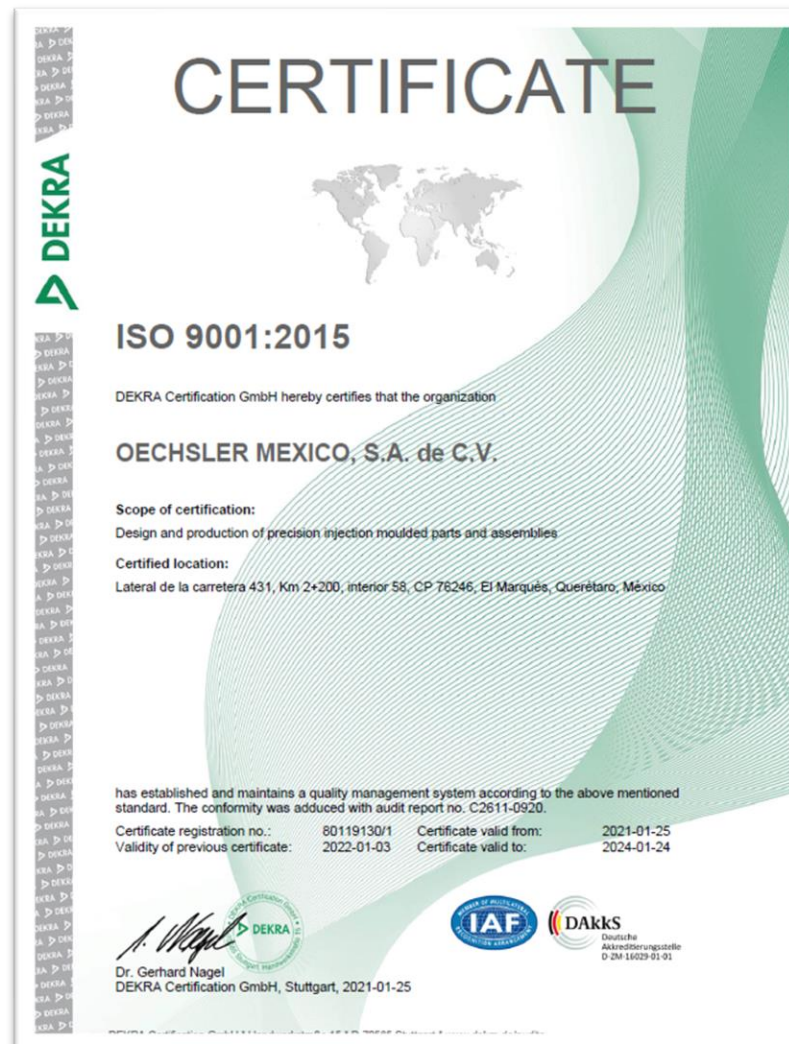
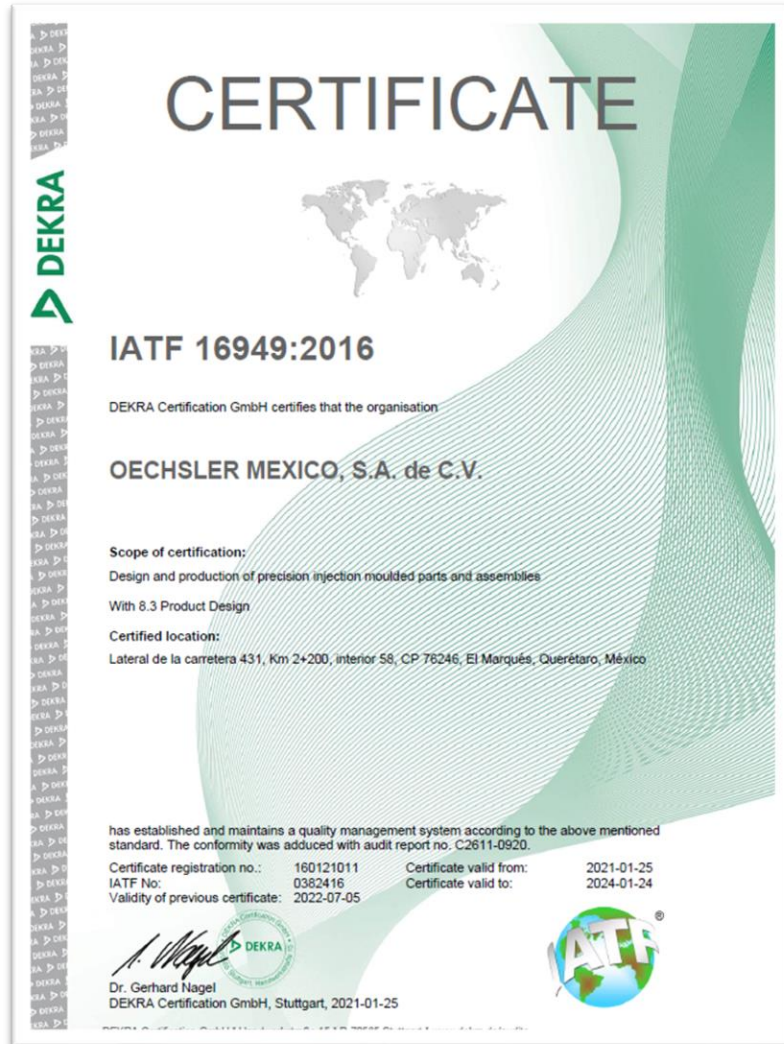
- **What you get:**

- High-performance actuators (torque & efficiency)
- High quality Hybrid parts
- Lightweight & fitting in small installation spaces
- Competitive pricing
- Tailored solutions
- Extensive experience in developing & manufacturing actuators
- High durability & resistance
- Quick time-to-market





# Certifications IATF 16949, ISO 9001 & 14001



# Our Technological Core

We have built an eco-system around our core productions technologies:

## INJECTION-MOLDING

- Polymer-injection molding
- Powder-injection molding
- Particle Foam - Molding

## Automated Assembly

- Automotive-approved & automated assembly
- Joining technologies (e.g., ultrasonic welding, gluing)
- 100% End-of-line testing (e.g., performance testing)

## Additive Manufacturing

- Digital Light Synthesis
- Powder-Bed Fusion
- Micro-Laser Sintering

## Add'l Core Competencies

- Multicavity molding
- In-mold decorations
- Electronic devices (ESD - conform)
- Hybrid production (e.g., polymers & metal)
- Patch Placement

# Our Product Examples

We develop and produce a wide range of products:



Actuators



Driver Assistance  
Tech



Plastic-Metal-  
Systems



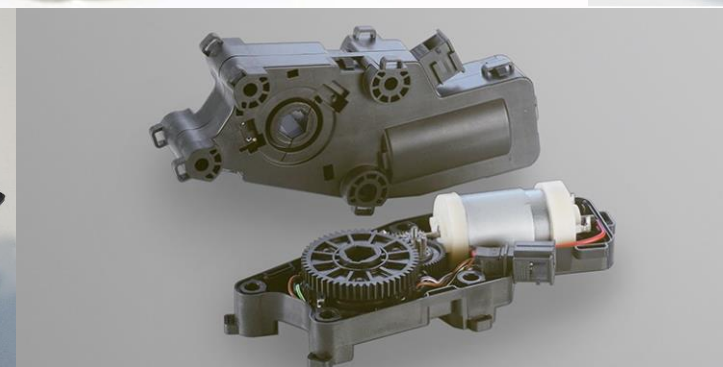
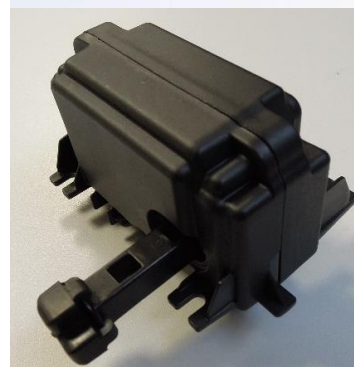
Healthcare  
Devices



# Actuator Drives

## Expertise under one roof

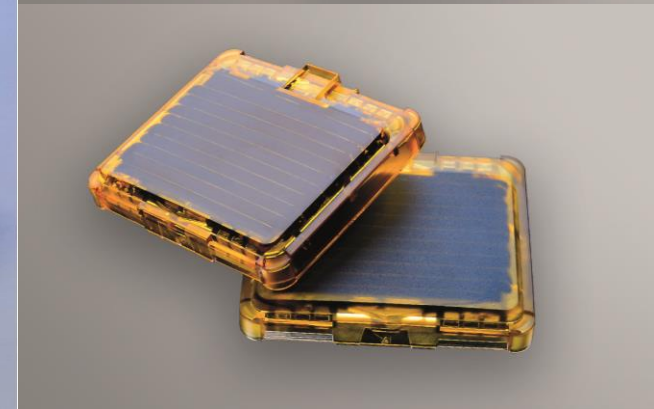
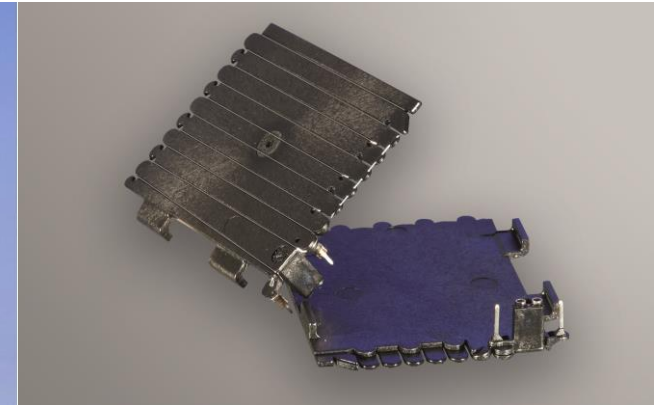
- Extensive in-house expertise in electronics and mechanics for the assessment of system solutions
- International footprint (“local for local”)
- In-house mold making
- Special gearing and in-house materials database



# Driver assistance tech for autonomous driving

## Flexibility you can rely on

- Development expertise and a high proportion of in-house production for tailor-made customer solutions
- Design surfaces for visible installation with strict chemical-, temperature- and uv-resistance requirements
- Components with electrically conductive heating elements for the eradication of snow and ice
- In-house assembly processes for injection-molded parts and subassemblies

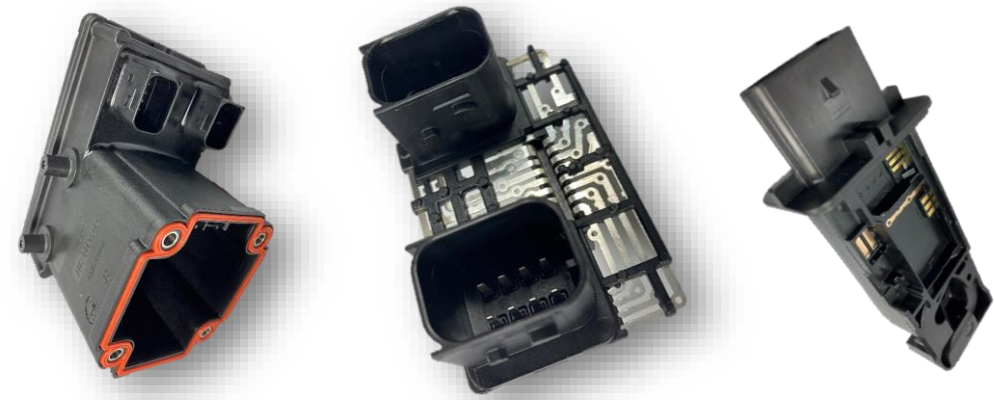




# Hybrid Parts – Overmolding

## INNOVATIVE SOLUTIONS FOR GREATER EFFICIENCY

- Completely automated processes
- Integration of several metal inserts in-line
- Precision stamping
- Overmolding
- Cleaning operations included
- Temperature-resistant and fluid-tight housing assemblies from -55°C to +150°C
- In-house DEF-tight silicone or polyurethane casting
- High-quality de-icing and heating elements
- Global manufacturing capabilities





# Features & Advantages

## WHAT YOU GET:

- Optimum material selection for various systems
- Core competence in the processing of high temperature polymers
- Inhouse stamping solutions
- Customized solutions according to customer requirements
- AdBlue®/DEF-tight silicone and polyurethane potting
- Function integration in polymer parts
- 100% EOL tested quality
- Fully automated packaging





# OECHSLER Mexico: Molding Machines

## Extended Capabilities.

Offering a wide range of molding technologies with complex geometries for multiple product applications and assemblies.



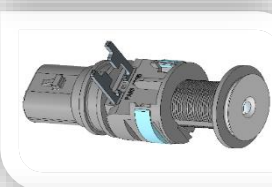
**Centralized Feeding Systems.**



**Injection Molding Machines  
(37 from 70-260 Ton).**



**Adiabatic Cooling Systems.**



Granulate material already used: PBT (Glass Fiber reinforcement), POM, PEEK, PA66, PEI (GF Reinforcement), PA 66 flame retardant, PBT+PET, PA 6, PC, PPS, PPA

# OECHSLER Mexico: Molding Machines

Flexibility that you can rely on.

Design surfaces for visible installation with tight chemical-temperature and UV-resistance requirements.

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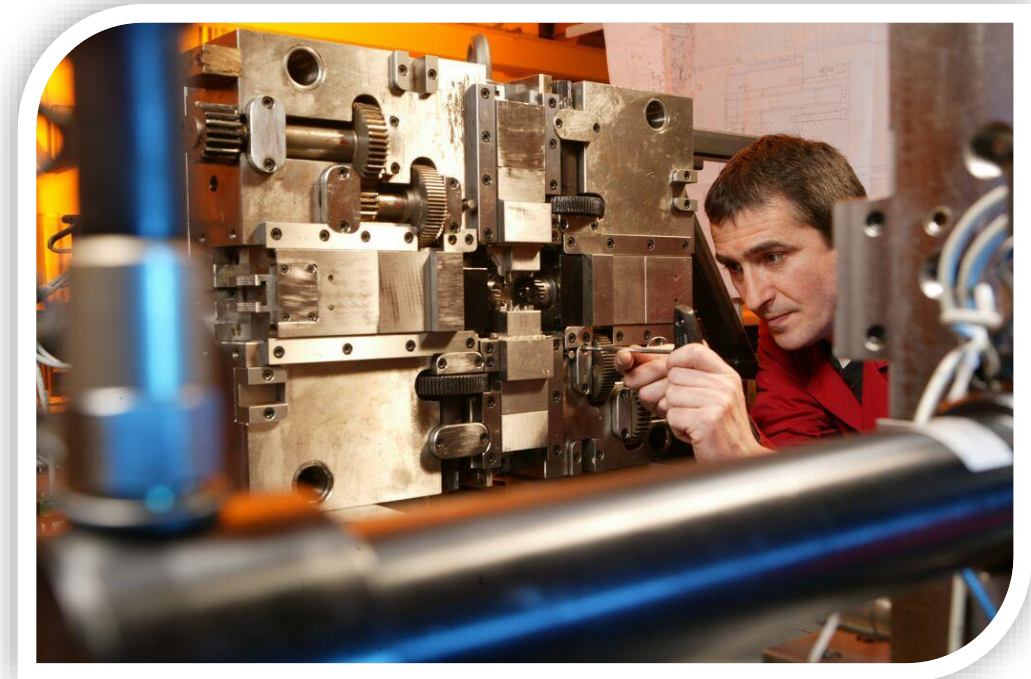
Driver assistance tech for  
Autonomous driving.



# OECHSLER Toolshop Global Services

## Tool Shop at Headquarters

- HIGH-PERFORMANCE INJECTION MOLDS & FIXTURES
- ALL KEY TECHNOLOGIES IN HOUSE:
  - Tool design
  - Fully automated high-speed cutting (HSC) & electrical discharge machining (EDM)
  - Fully automated production monitoring (Zwicker Frame Work)
- SPECIAL TECHNIQUES, SUCH AS LASERCUSING, REFRIGERATED COOLING...
- PROJECT MANAGEMENT TOOLING
- EXCELLENCE IN PRODUCTION 2018 – OECHSLER WAS AWARDED AS FINALIST AT THE “TOOL-MAKER OF THE YEAR”-COMPETITION
- Complex repairs

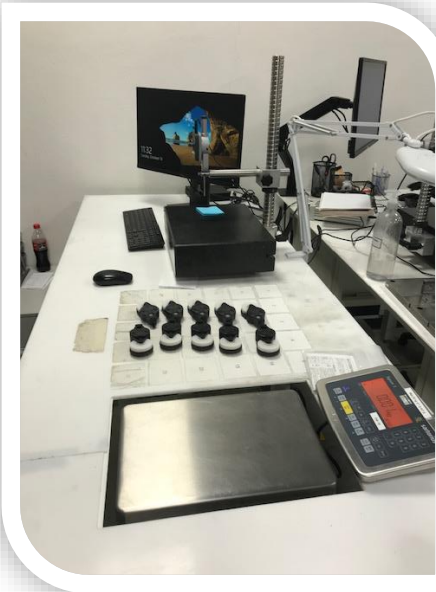


# OECHSLER Mexico: Tool Shop

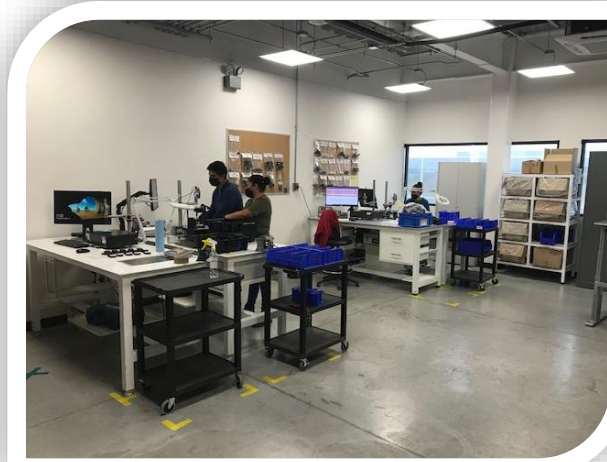


- Laser welding, grinding, electroerosion, conventional machining.
- Hot runner control, ultrasonic equipment, CMM and sand blasting.
- Preventive and corrective maintenance programs
- Minor and medium-complex repairs

# OECHSLER Mexico: Chemical and Metrology Laboratories

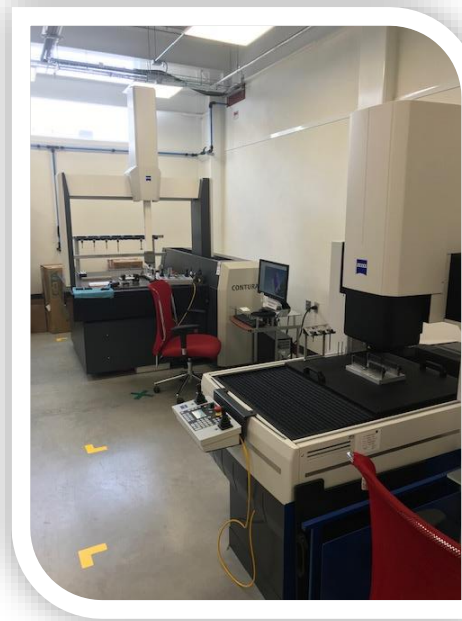


- Viscosity capillary test.
- Melt Volume Rate & Melt Flow Rate.
- Moisture Content.
- Ash Content.





# OECHSLER Mexico: CMM Room



- CMM.
- Frenco (Gear Tester).
- Vision System.
- Tensile/Compression test.
- Roughness meter.



# OECHSLER Mexico: Product Strategy

Let's grow together.



**Idea**



- **(Sub-) Assemblies** with high value manual Work Content



**Development**



- **High Volume Plastic Parts with adding value activities** in Range from 80to to 260to Clamp Force
- **Plan ahead:** Install up from 27 to 36 injection molding machines



**(Global)  
Industrialization**



- **Taking EPB production as platform** and reference regarding the special processes already implemented at OECHSLER Mexico (**Ultrasonic Welding, Resistance Welding, fully automated Testing and Labeling**)
- **Plastic Parts for our own Assemblies** to reduce landed costs



**(Global) Series  
production**



- **> 20.000.000 produced actuators per year** (global market leader)
- **Globally standardized processes** and quality certificates
- **Regular high-quality** customer ratings

# CONTACT INFO

# Thanks for your attention.

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