



OECHSLER

Company Presentation

01 OECHSLER MEXICO

OECHSLER MEXICO

61

MILLION EUR

AUTOMOTIVE

308

EMPLOYEES

INNOVATIVE SOLUTIONS



BOSCH

STÄUBLI

MAGNETIC

HANON
SYSTEMS

аксесори

- QUERÉTARO (ESTABLISHED 2012)
 - PROPERTY SIZE: ~ 14,480 M² (USED SURFACE: ~ 9,400 M²)
 - SERVICES:
 - Manufacturing for Automotive and Industrial applications, *Healthcare
 - Fully equipped laboratory
 - Toolshop
 - ISO 9001, IATF 16949,
 - ISO 14001, ISO 13485*, NOM 241*
- * In progress.



OECHSLER MEXICO
S.A. DE C.V.
QUERÉTARO



Manufacturing



Sales



OECHSLER



2021-2022 CUMMINS
DELIVERY AND PERFORMANCE
SUPPLIER AWARD

OECHSLER MEXICO

Company Profile

Development & Design

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



Technologies & Processes

Standard and special techniques

Step I

- 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)



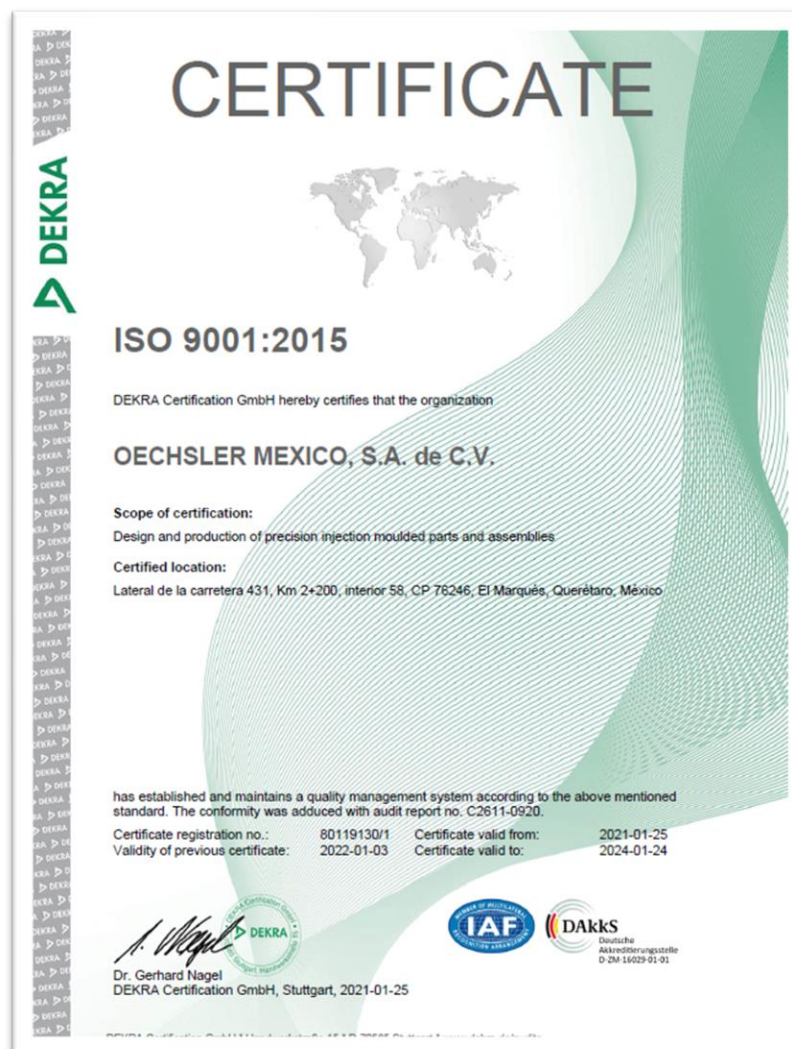
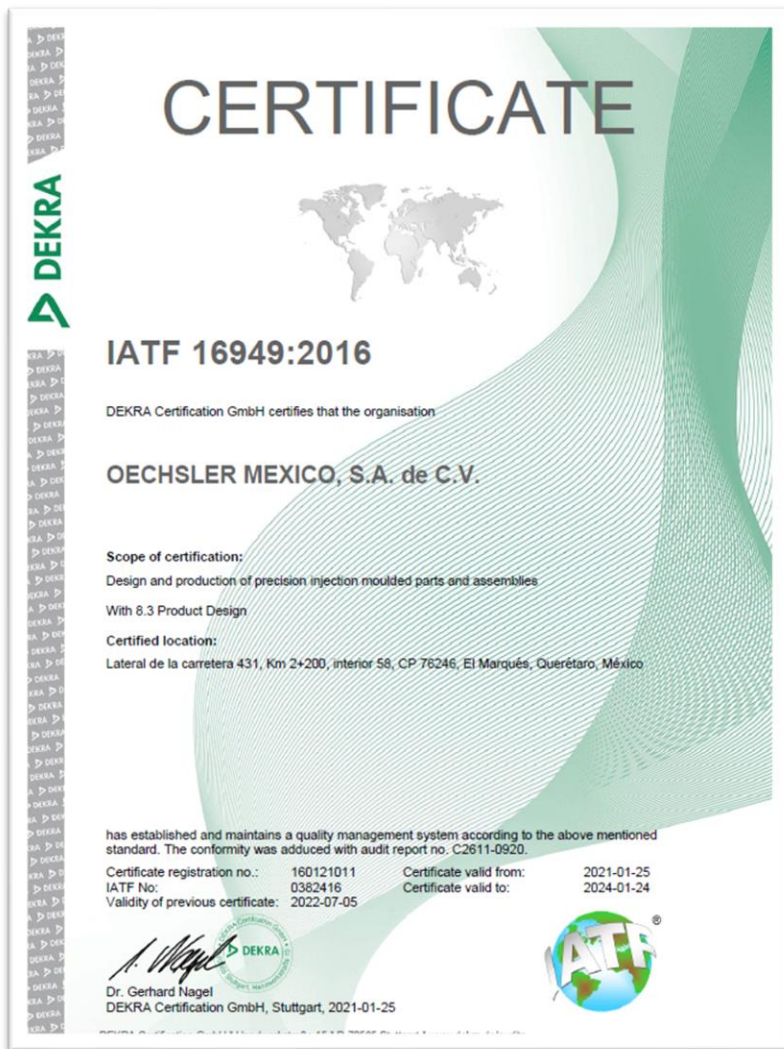
International subsidiaries

Europe, Asia, NAFTA



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

Certifications IATF 16949, ISO 9001 & 14001



Actuator Drives

Expertise under one roof

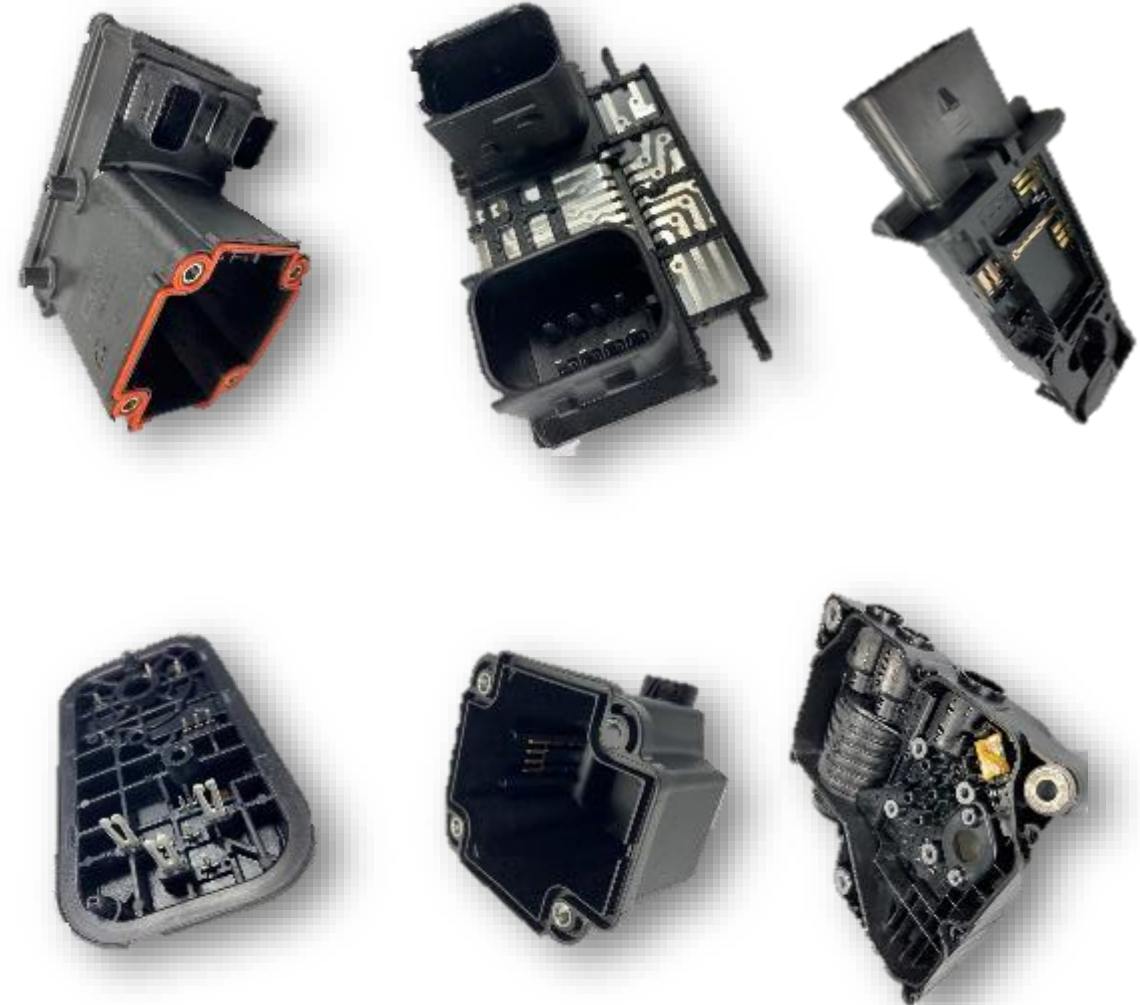
- Extensive in-house expertise in electronics and mechanics for the assessment of system solutions
- International footprint ("local for local")
- In-house mold making
- Special gearing and in-house materials database



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



Decarbonization at OECHSLER MEXICO



Daniel Kilian • 3er y demás
General Manager - Oechsler Mexico SA de CV
2 meses •



Sustainability and CO2 reduction:

OECHSLER Mexico is proud to announce its partnership with ARGIA SOLAR about the installation of a first class 500kW Solar System and a state of the art energy backup from ROLLS ROYCE.

This is our first step towards a sustainable industrial production process and will reduce our CO2 Emissions by an estimated 470 Tons per year.

In the OECHSLER group we care about the future of our 🌍

[#sustainability](#) [#co2](#) [#green](#)



Our First 10 Years...



02 INSTALLED CAPACITY

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.



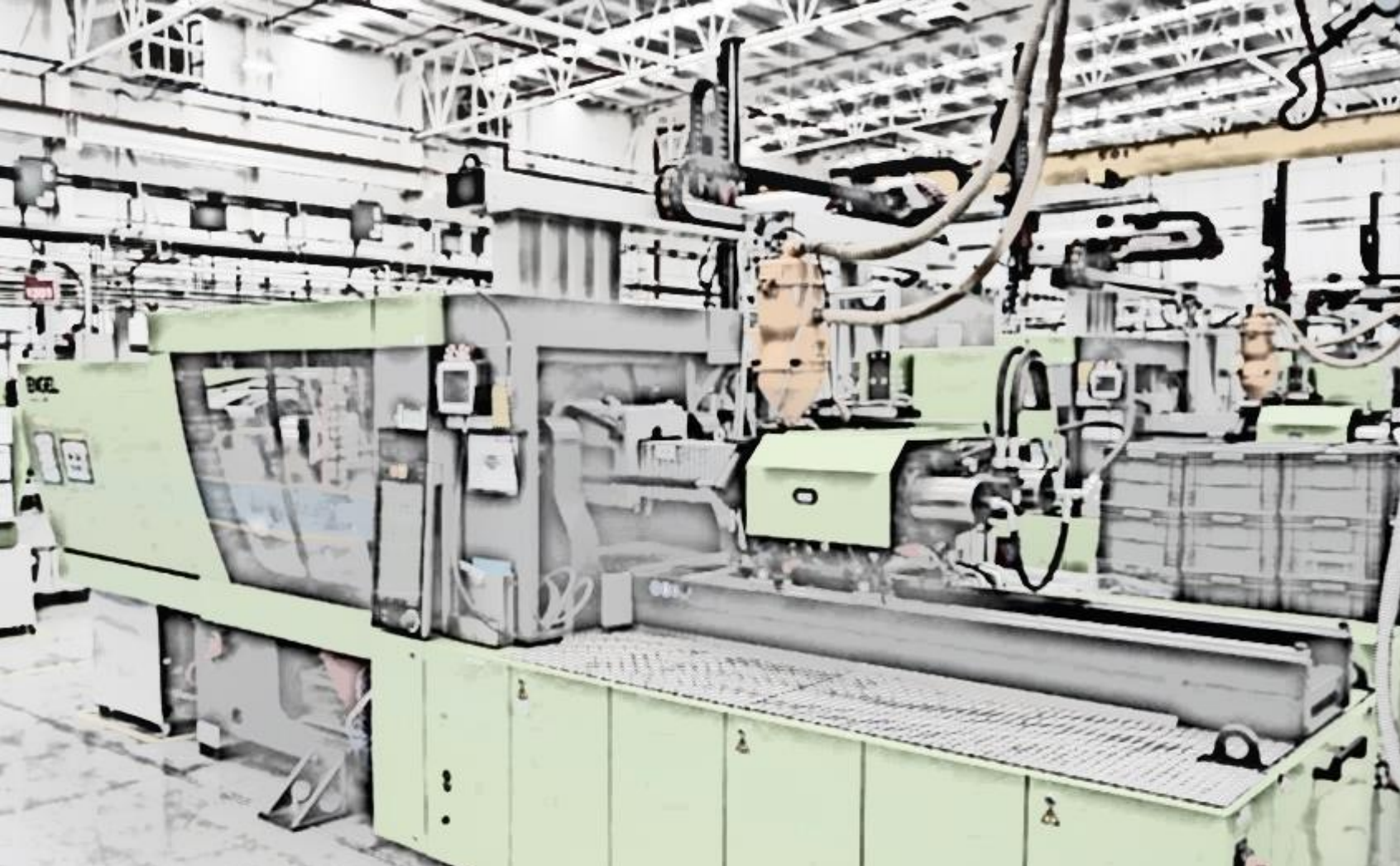
Adiabatic Cooling Systems.



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



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



IMM
260 tons





IMM
120 tons



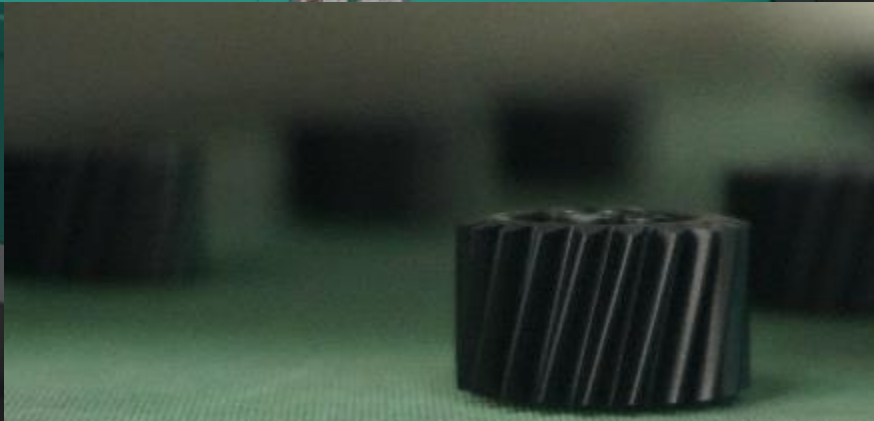


IMM
80 tons
vertical





IMM
70 tons



OECHSLER Mexico: Assembly Lines

Expert on Automation Proceses

Assembly Lines and rotary for full actuators and gearboxes



Special processing: resistance & ultrasonic welding, pick & place, 100% testing

Extensive in-house expertise for assemblies, mechatronic system solutions



OECHSLER Mexico: Special Processes

Innovative solutions for greater efficiency

Specialized processes such as curing, potting and testing

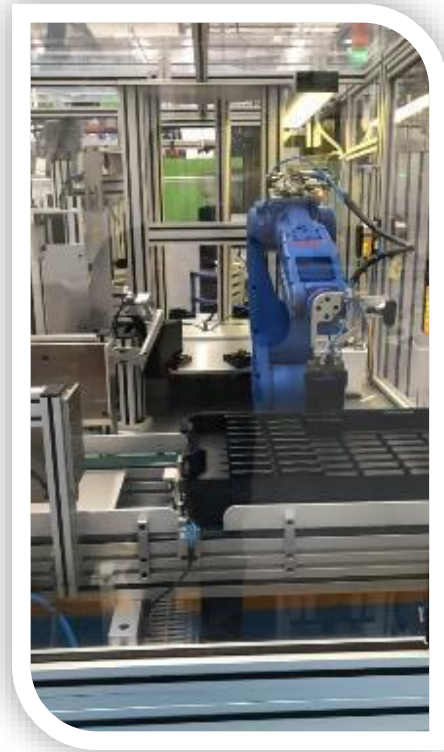
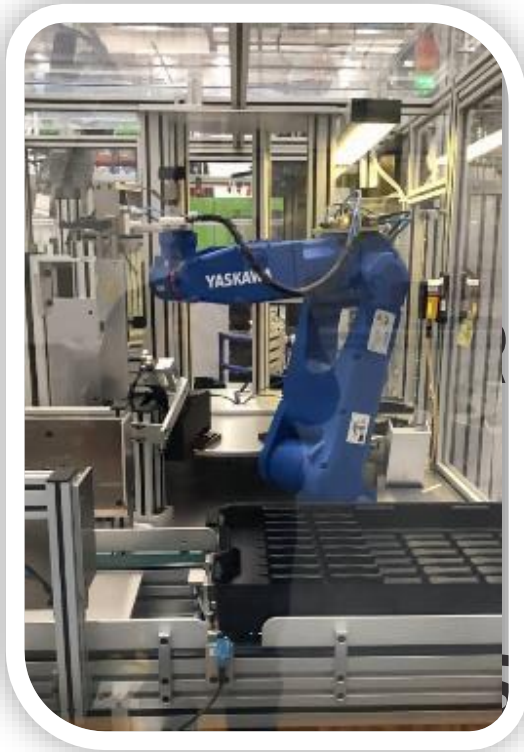


- Temperature resistant and field tight housing assemblies for SCR applications
- Inhouse DEF polyurethane casting
- High-quality De-icing and heating elements
- 100% Automated tested EOL



OECHSLER Mexico: Molding Machines

Flexibility that you can rely on.

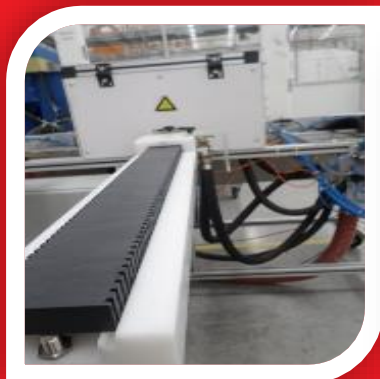


Driver assistance tech for Autonomous driving.

OECHSLER Mexico: Special Processes

Quality build on experience

Specialized processes such as Milling,
Deburring and Cleaning.

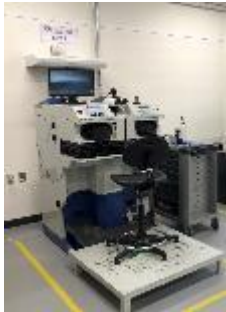


Components for vacuum pumps with high
surface quality in sealing area, without burrs.



03 TOOL SHOP

Tool Shop



Tool shop at 470 m² Area

Machining 120 m²

- HSC CNC milling for graphite (RÖDERS)
- CNC milling (DMU)
- CMM (ZEIS DURAMAX)
- EDM (ZIMMER & KREIM) (CHARMILLES)
- Flat and round grinding (OKAMOTO) (STUDER)
- Laser and TIG welding (ALPHALASER)
- Conventional lathe, milling machine, bench grinder, band saw and so on.

Mold maintenance 350 m²

- Crane 5 tons
- 8 workbenches and 8 tool-trolley
- GAMMAFLUX HR controller 96 zones with Mold Doctor
- Micro blasting: plastic granules, aluminum corundum, glass balls
- Ultrasonic cleaning
- GARANT CNC cabinet for HR spare parts
- Mold spare part kits

04

QUALITY LABS

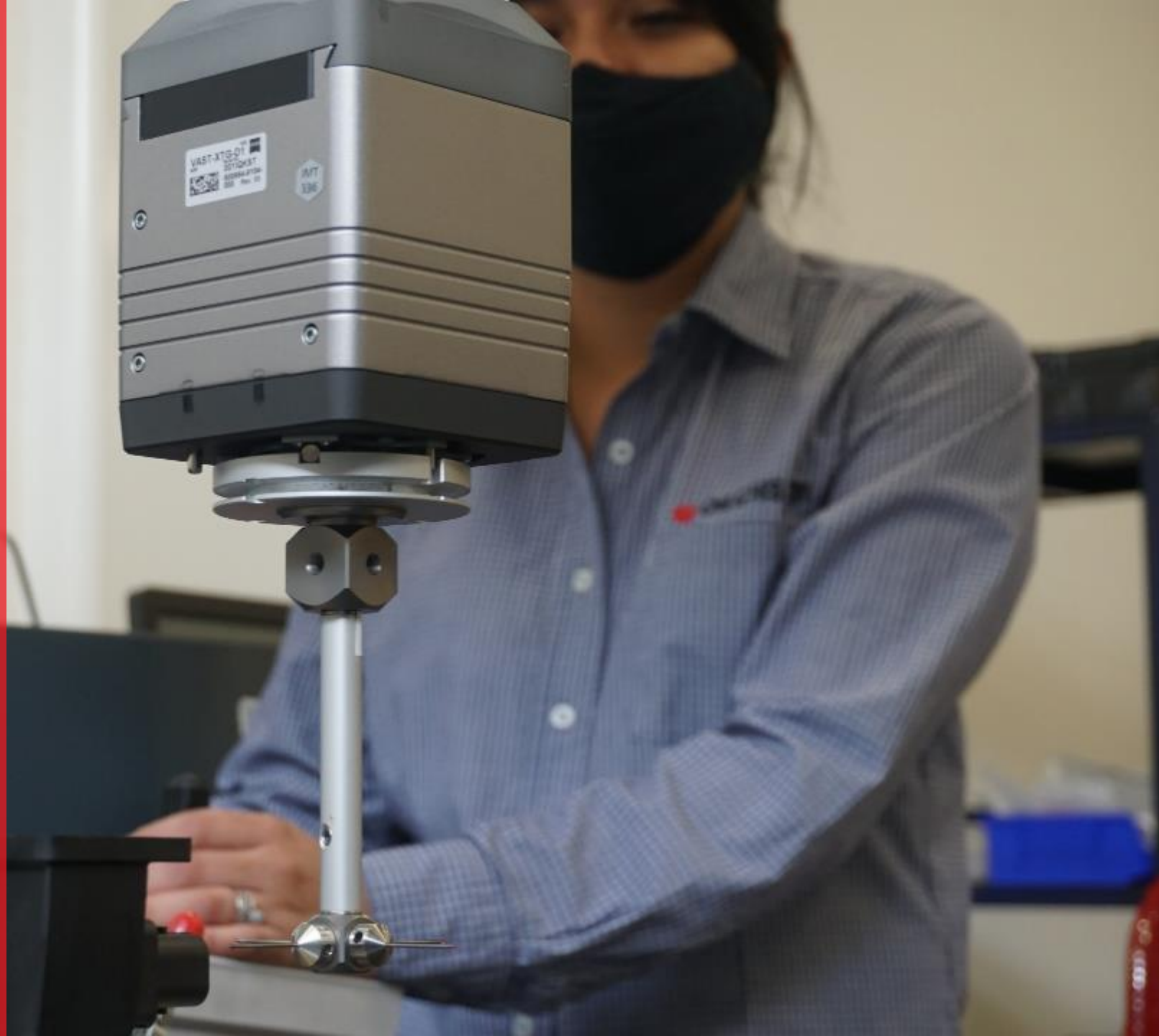
CMM, Chemical, Metrology

High quality in measurements for serial production
processes

Zeiss CMM Contura

Sensor VAST XT Gold

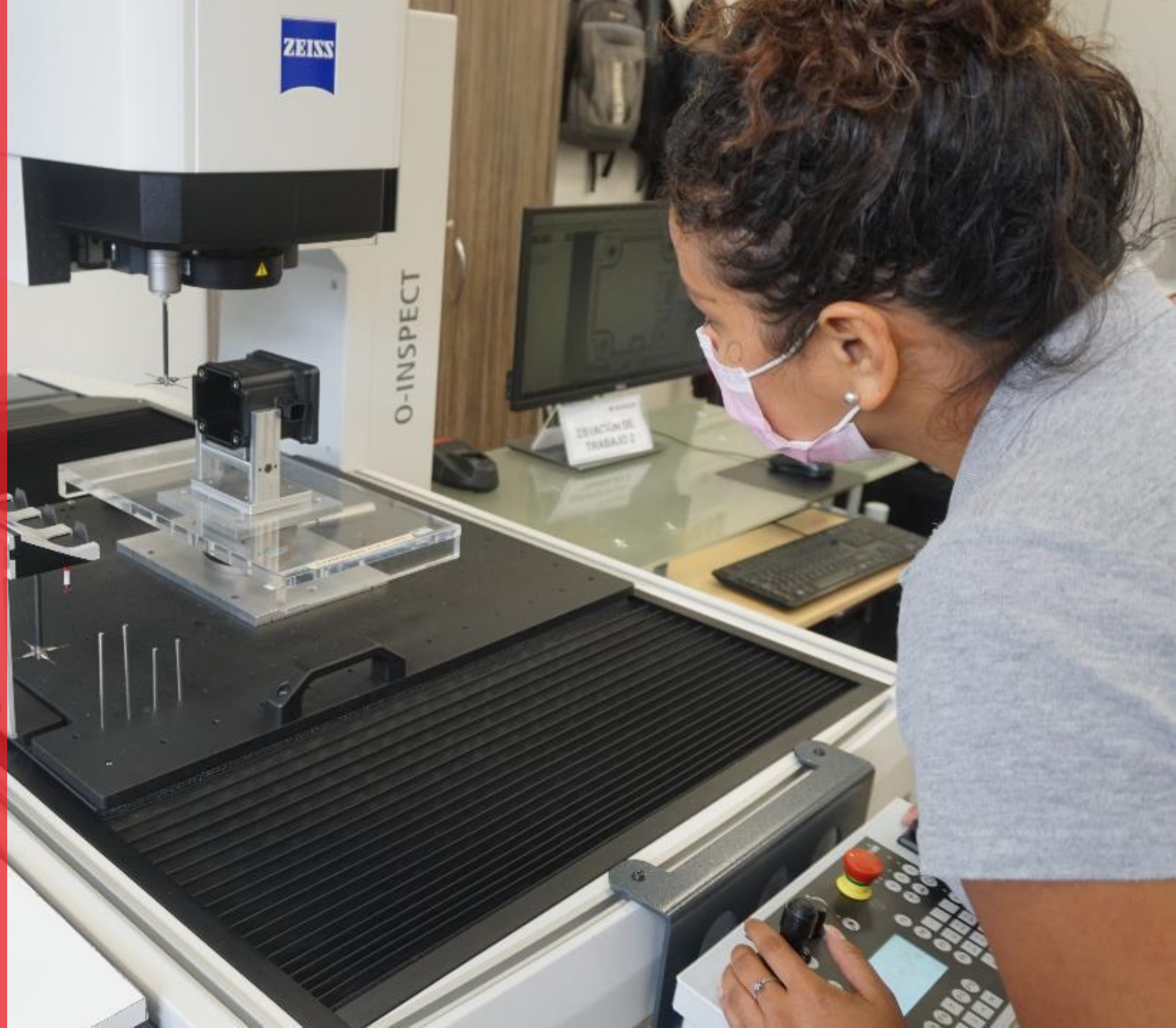
Latest version in Calypso
software



Zeiss CMM O-Inspect

Sensor VAST XXT

CMM with special camera
for visual measurements



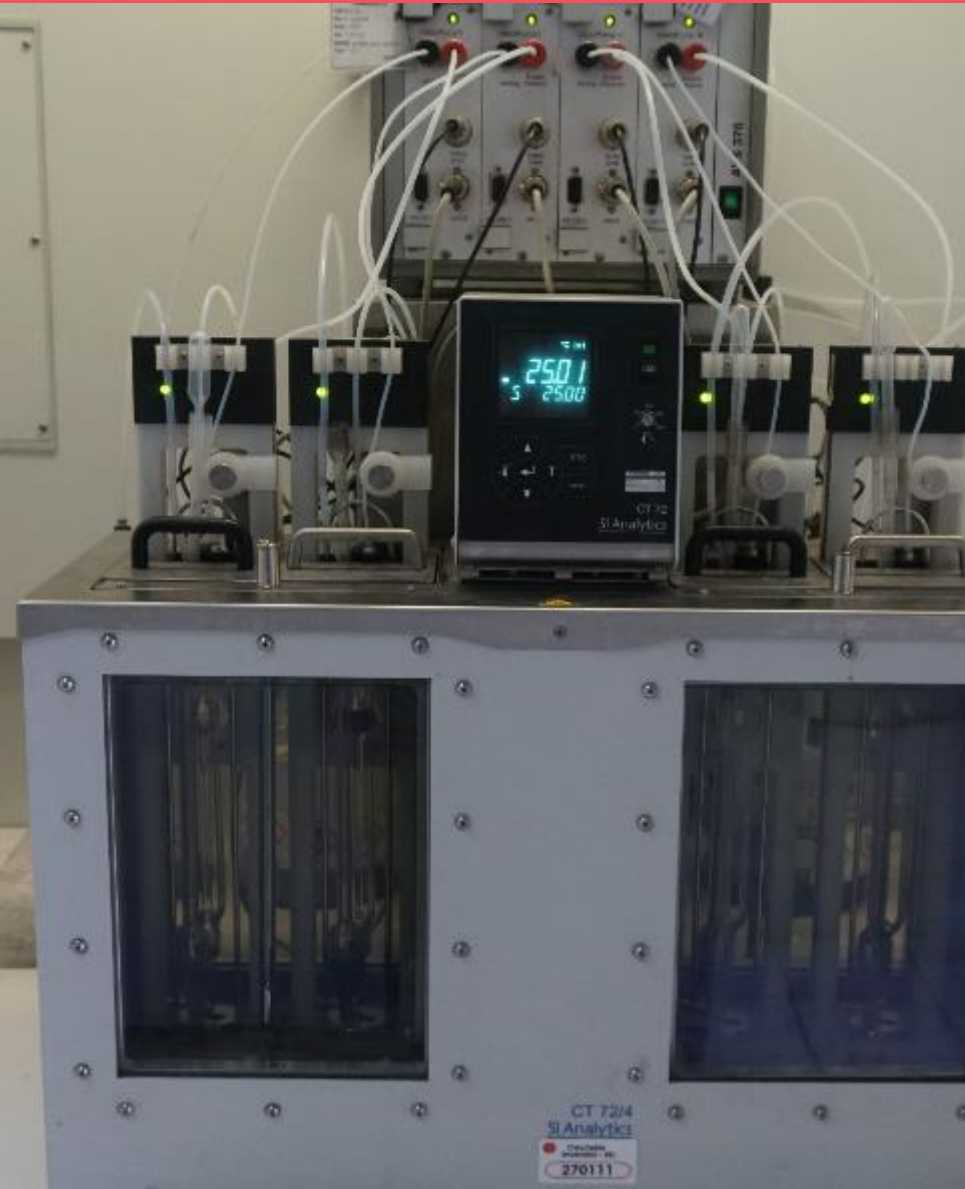
Frenco roller gear inspection

Specific device for
concentricity (Fr''), error
between teeth (fi'') &
balance error (Fi'')

Operators with
experience in Double
flank software

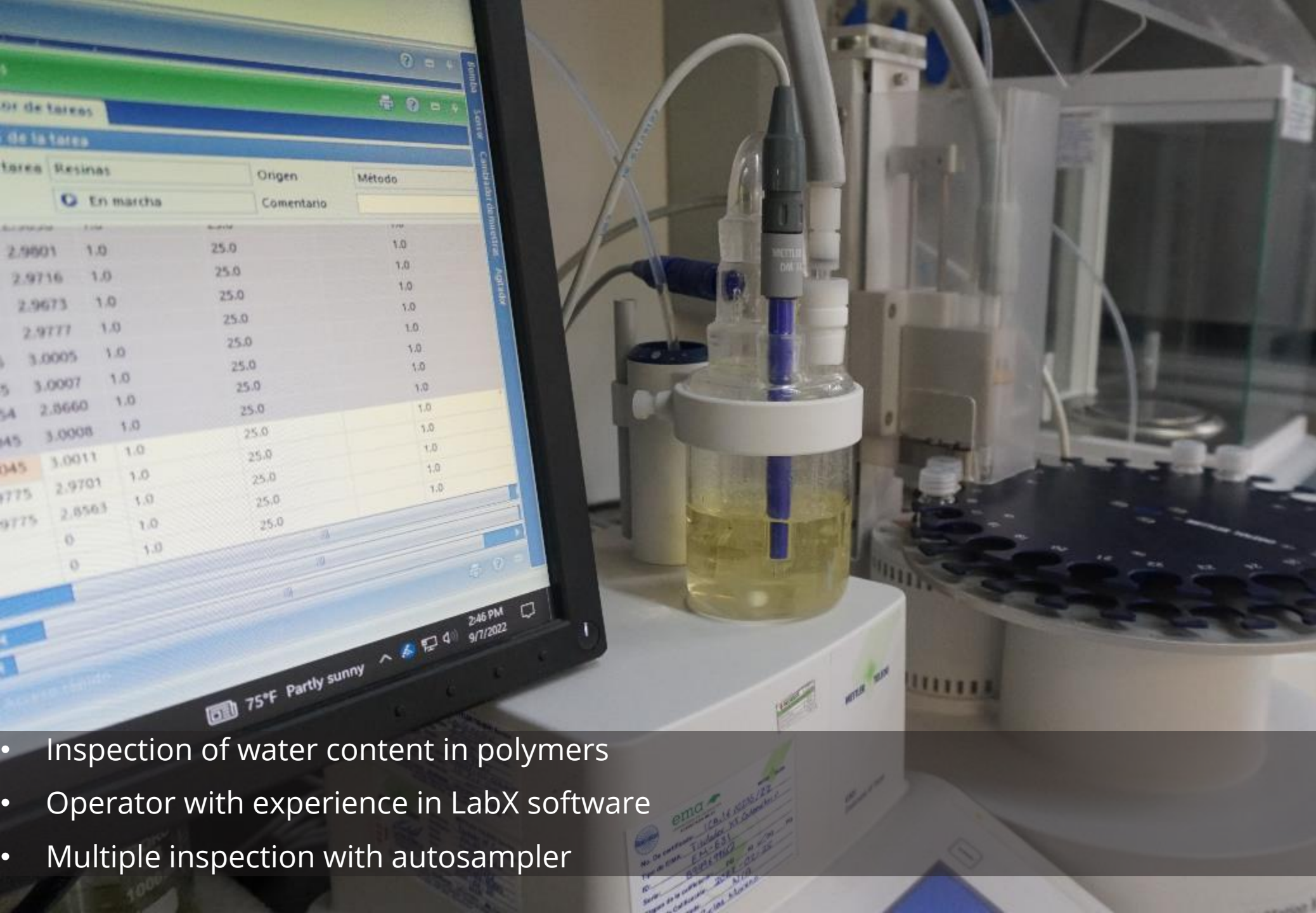


SI Analytic Viscometer



Viscosity
inspection in
polymers and
injected pieces





Titrator KF

C30SX +

InMotion KF

Pro Oven

- Inspection of water content in polymers
- Operator with experience in LabX software
- Multiple inspection with autosampler

Master samples



Zwick machine

Compression and tension tests



Guardus

Data and control of Measurements using software Guardus according customers' specifications

05

THE NEXT MILESTONES

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 80 to 320 Ton Clamp Force
- **Plan ahead: New clean room ISO LEVEL 7, CR, Level 8**



(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**

06 CONTACT INFO

Thanks for your attention.

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