

InTiCa

Systems



— *be electrified* —



Company Profile | Executive Summary

Company sites



InTiCa Systems SE (DE)
Technology Center (DE)
InTiCa Systems s.r.o. (CZ)
InTiCa Systems LTD (UA)
Sistemas Mecatrónicos
InTiCa (MX)

Employees



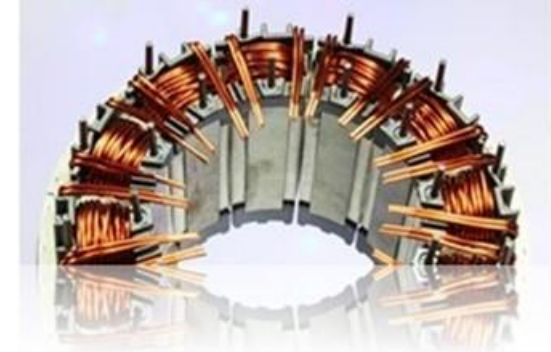
InTiCa Group
approx. 900
(DE:85 | CZ:565 | UA:50 | MX:200)

Segments



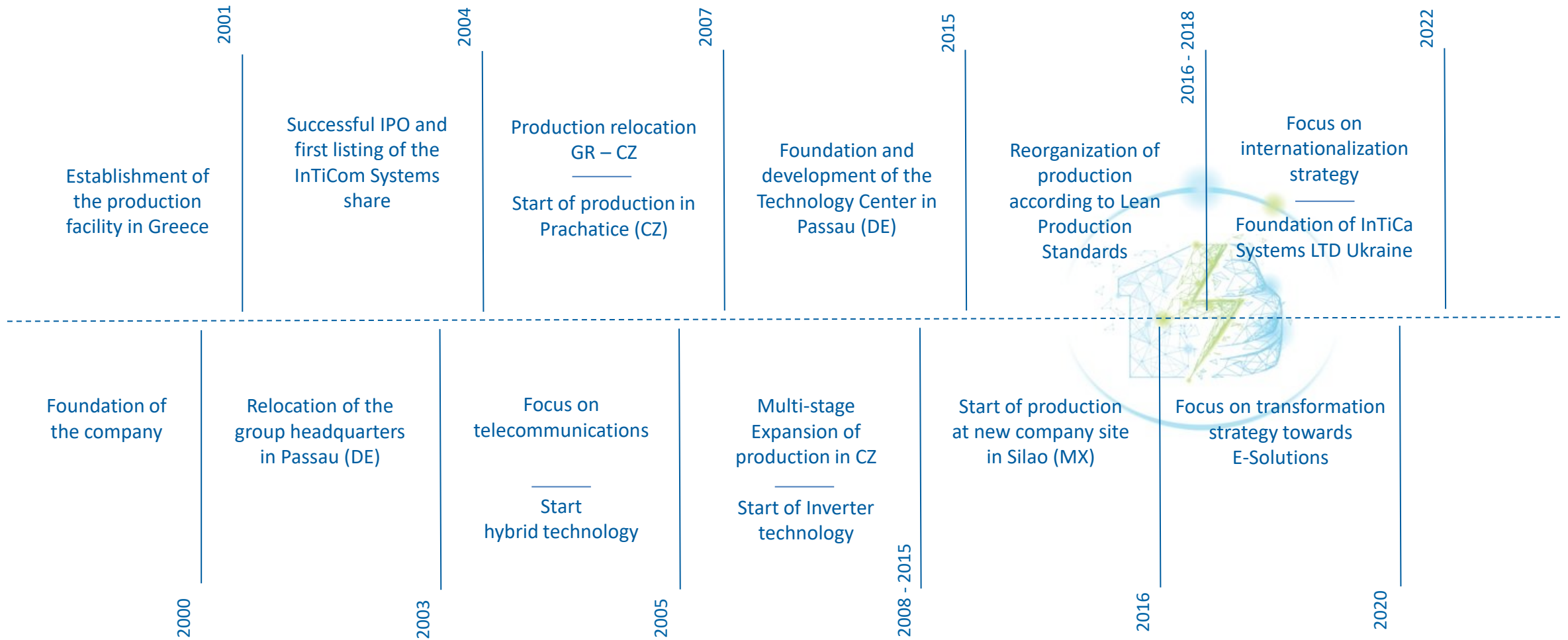
Automotive
Industry and Infrastructure

Products



Inductive components
Mechatronic Systems
Power Electronics

Company Profile | History Timeline

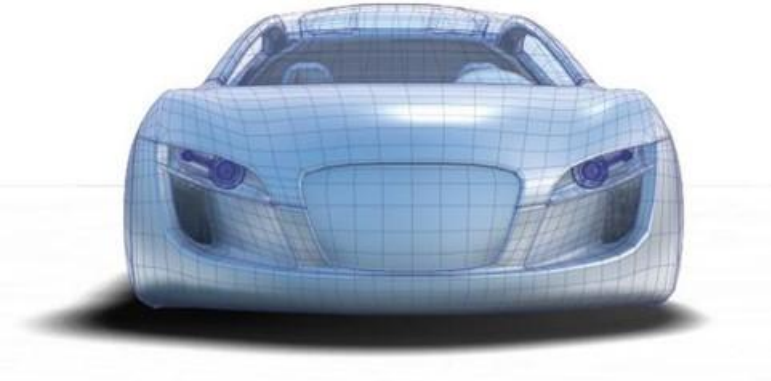


Strategy | Segments

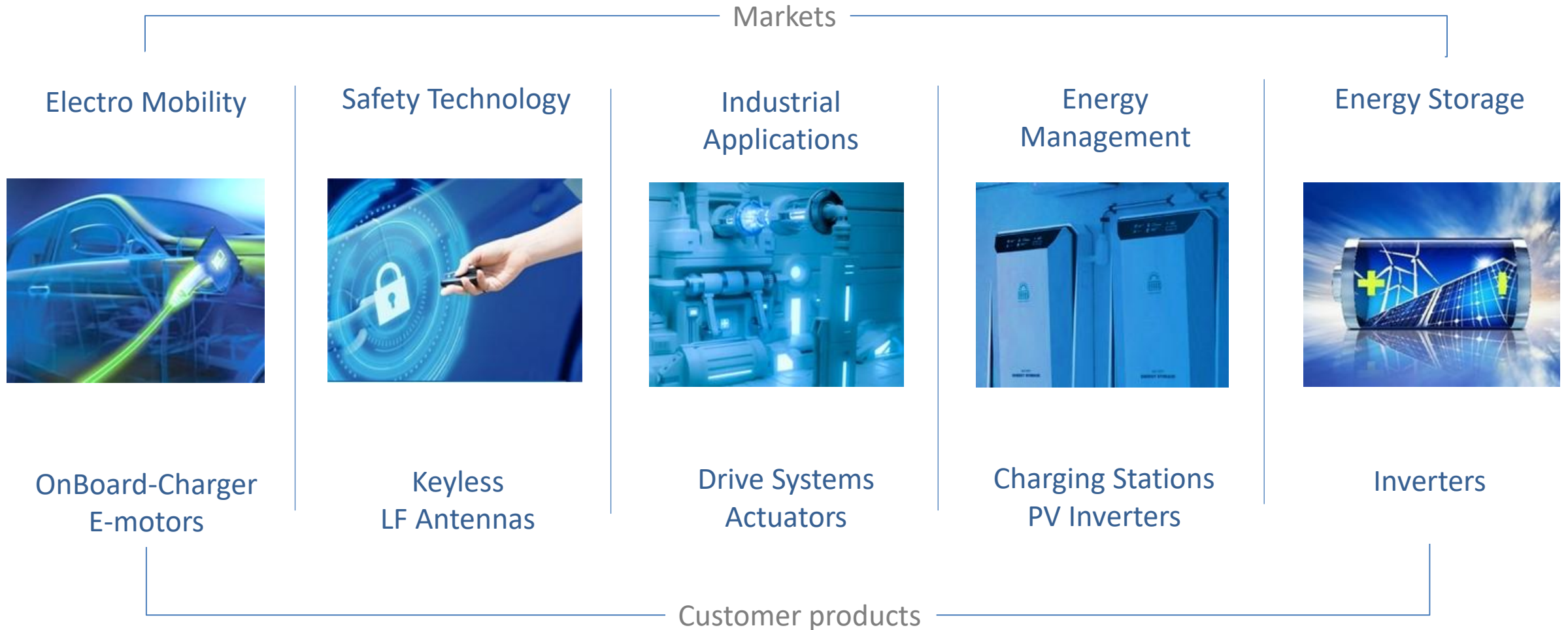
Industry and Infrastructure



Automotive



Strategy | Application of our products



InTiCa supplies core components for customer products in promising markets

Strategy | Inductive components in 5 product groups

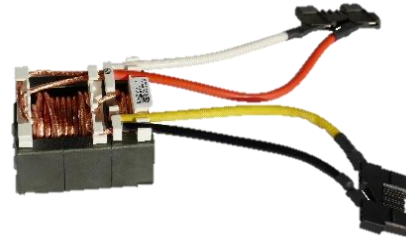
Sensors



Actuators



Power Electronics



Stators



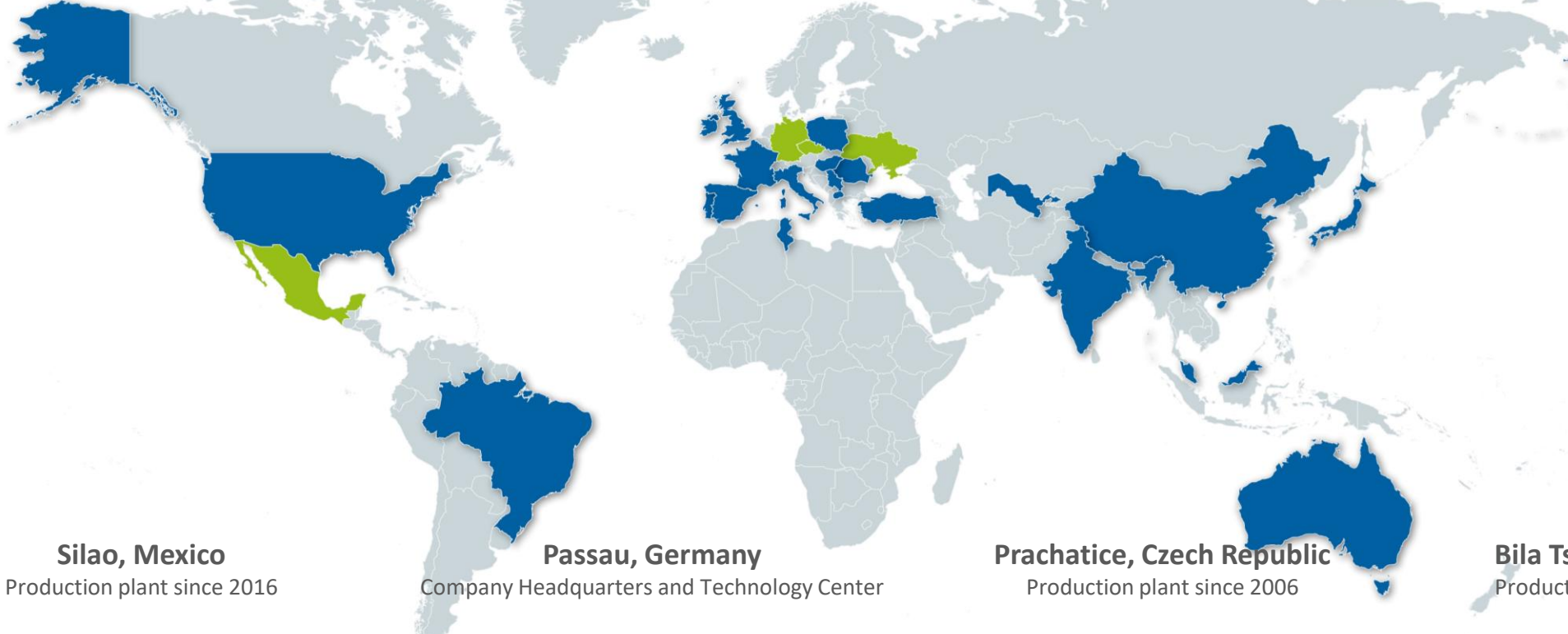
EMC Filters



As a leading supplier of inductive components, the **five product groups** of power electronics, EMC filters, actuators, stators and sensors offer the **decisive potential** for **corporate development**, especially in the field of **E-Solutions** and **E-Mobility**.

Company Profile | 3 Company sites

- Customer sites
- InTiCa sites



Silao, Mexico
Production plant since 2016

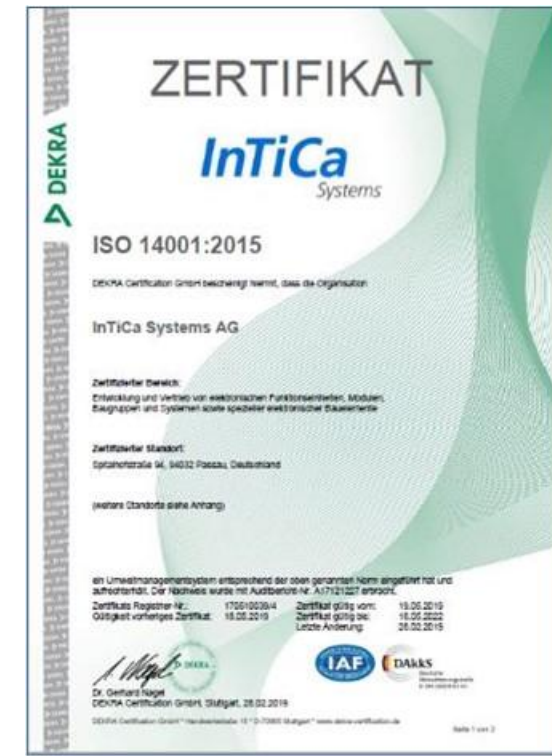
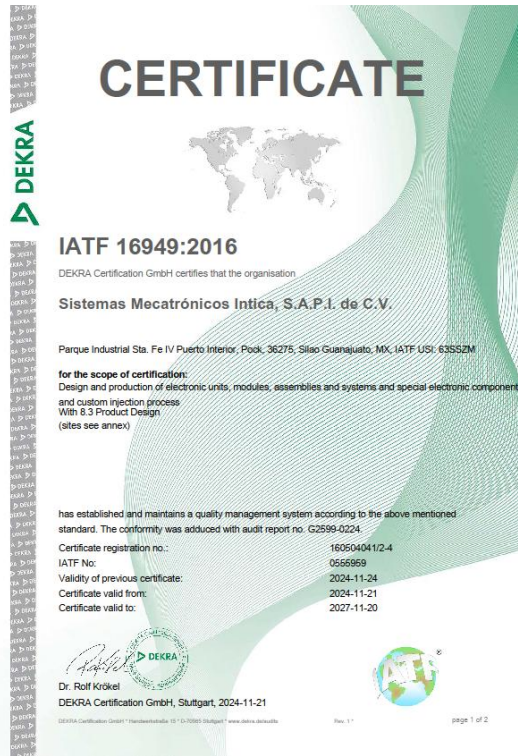
Passau, Germany
Company Headquarters and Technology Center

Prachatice, Czech Republic
Production plant since 2006

Bila Tserkva, Ukraine
Production plant since 2023



Company Profile | Quality Standards



Outstanding **customer satisfaction**, long-term business relationships and **pioneering products** outperforming market requirements are InTiCa Systems' **highest goals**. A pioneering production in accordance with the IATF 16949 **quality management system** and a sustainable **environmental management system** conforming to ISO 14001 standard support InTiCa in achieving these goals.



..... INNOVATION

Engineering & Manufacturing processes

..... be electrified

InTiCa
Systems

Strategy | Innovation Engineering – Product development



Supply Chain

Global | Raw Materials | Finished Goods



Development

Electrical | Mechanical | Thermic



Industrialization

Lean Production



Maturity | Validation

Concept | Prototype | Pre-series | Series

Strategy | Product development

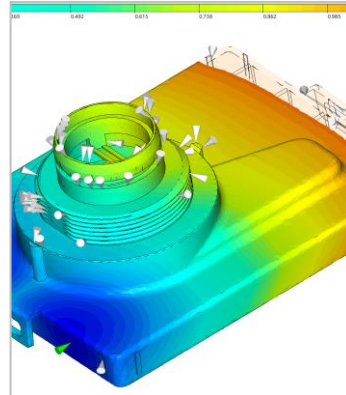
Design



Materials



Simulation



Testing



Validation



InTiCa Systems reliably provides **services and solutions** for its customers and partners.

Using the **latest methods and technologies**, product development covers the entire spectrum from **idea generation** and **market implementation** to support for the entire **product life cycle**.

Strategy | Manufacturing Technologies

Plastics Technology
Molding



Winding
technology



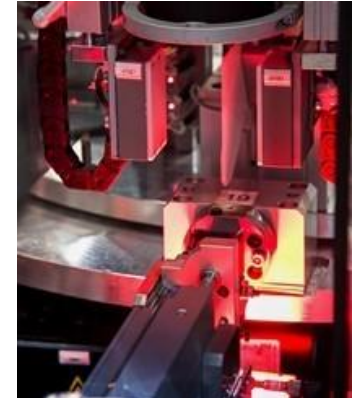
Joining
Technology



Automation
Assembly



Testing
Technology



Injection molding technology with various insert and overmolding technologies, outstanding winding processes as well as joining technologies, fully automated product testing, innovative assembly and automation technologies ensure the **efficiency** and **profitability** of the **manufacturing processes**.

Strategy | Manufacturing Technologies | Serial production



Strategy | Manufacturing Technologies | Plastics Molding



Strategy | Manufacturing Technologies | Prototyping



Strategy | Manufacturing Technologies | Prototyping



Strategy | Manual production - Automation

Manual production
of small batches



Partly automated
production



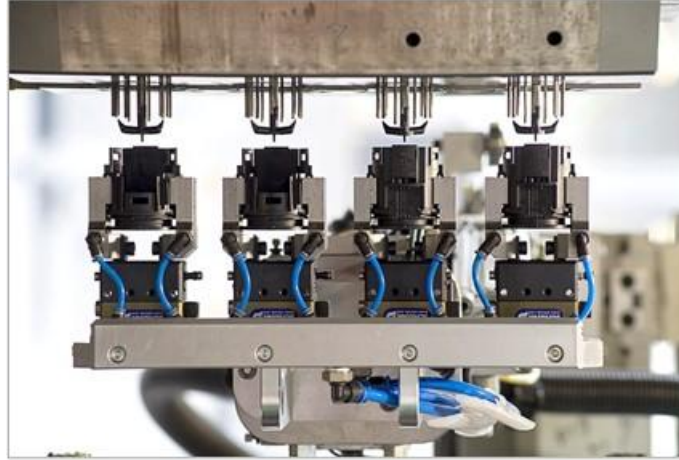
Fully automated
production



Strategy | Manual production - Automation



Strategy | Manufacturing Technologies – Plastics Technology



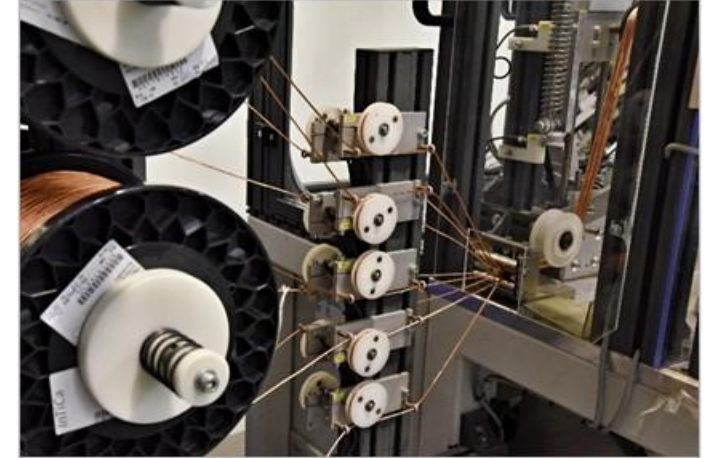
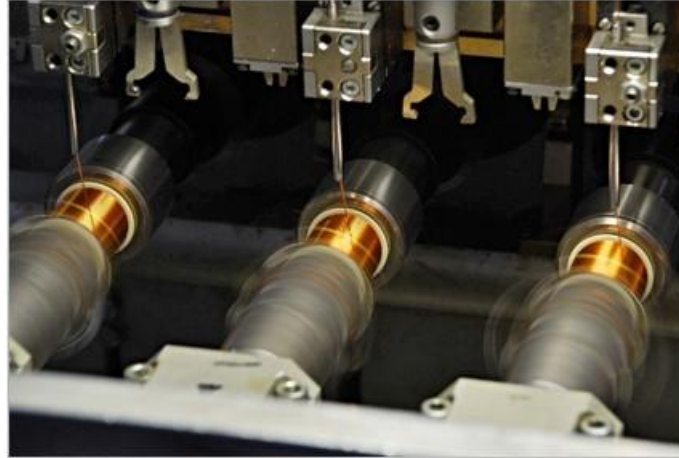
Key Facts

- 38 injection molding machines in Prachatice CZ
- 12 injection molding machines in MX
- 4 overmolding machines in MX
- Central granulate supply in Prachatice
- In-house regranulate grinding mill
- Clamping force 40 - 800 t.

Strategy | Manufacturing Technologies – Molding



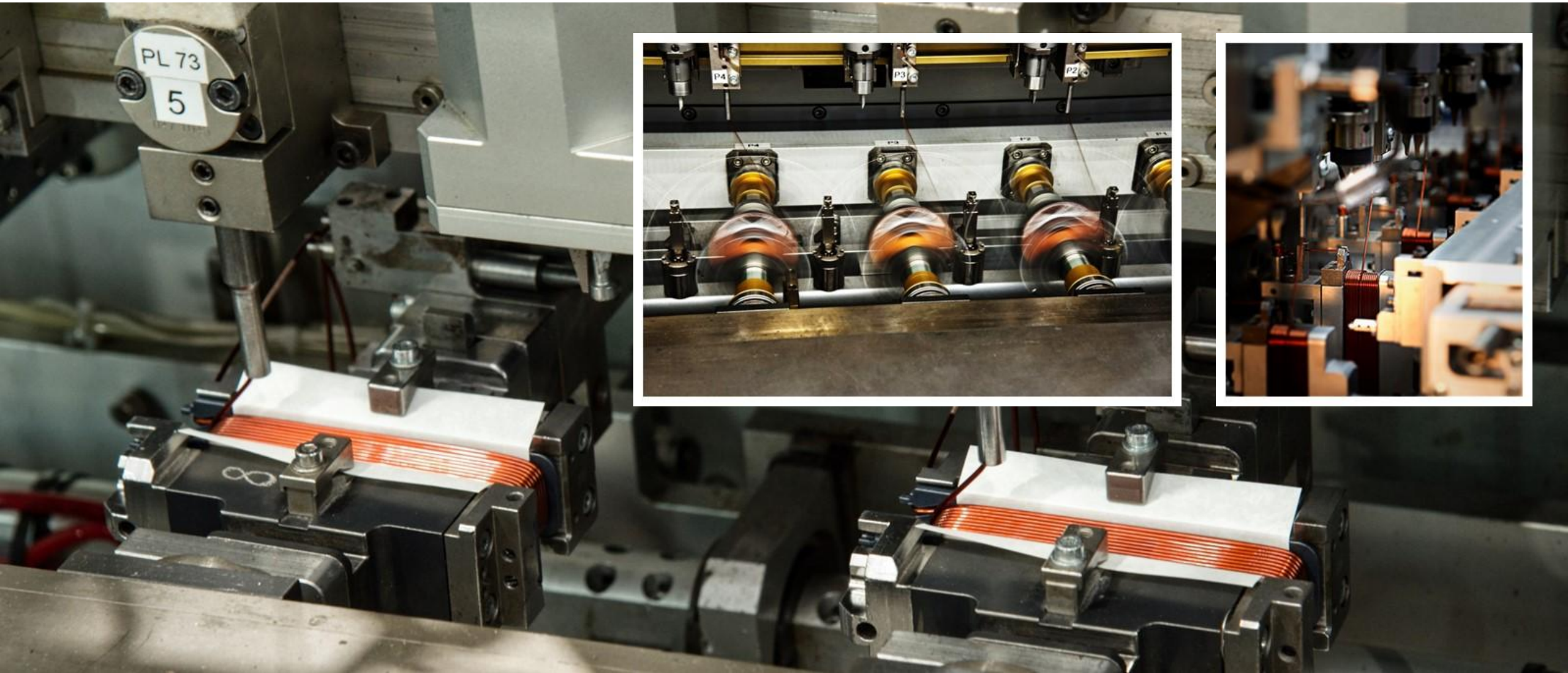
Strategy | Manufacturing Technologies – Winding technology



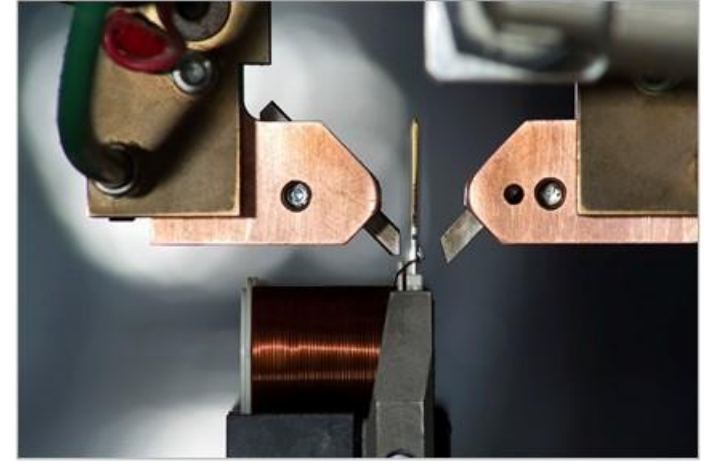
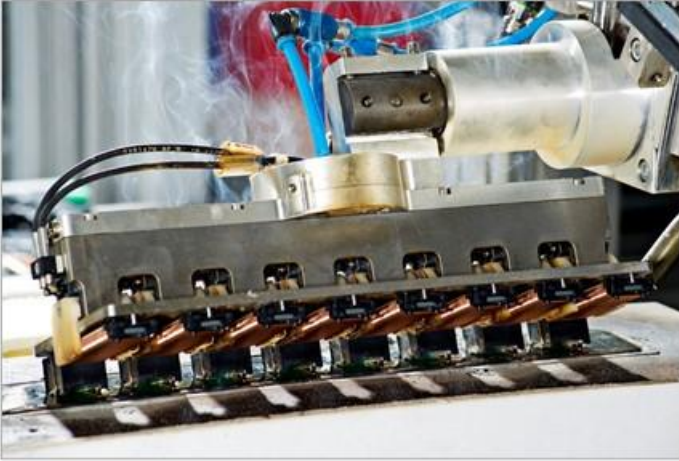
Key Facts

- 27 winding machines in Prachatice CZ
- 6 winding machines in Silao MX
- Winding speed up to 13.000 rpm
- Fully automatic 8 spindle machines
- Inline stripping up to 6 spindles
- Round wire, stranded wire and flat wire (horizontal and vertical)

Strategy | Manufacturing Technologies – Winding



Strategy | Manufacturing Technologies – Joining Technology



Key Facts Soldering

- 6 selective soldering stations
- 13 dip soldering stations
- High temperature soldering up to 480 °C

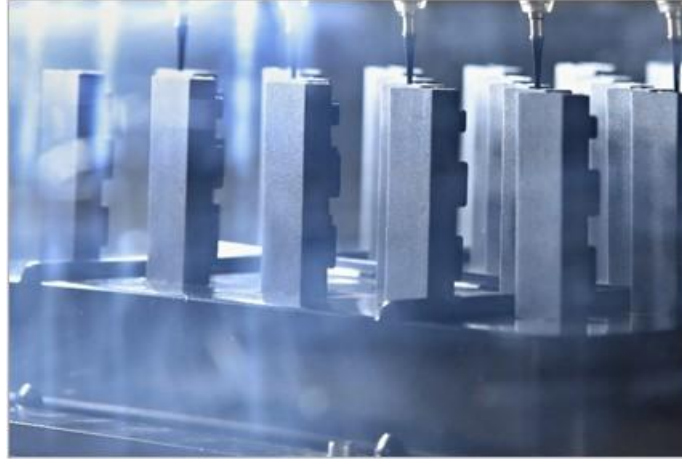
Key Facts Welding

- Ultrasonic, resistance and laser welding
- 6 welding machines
- Camera monitored

Strategy | Manufacturing Technologies – Joining



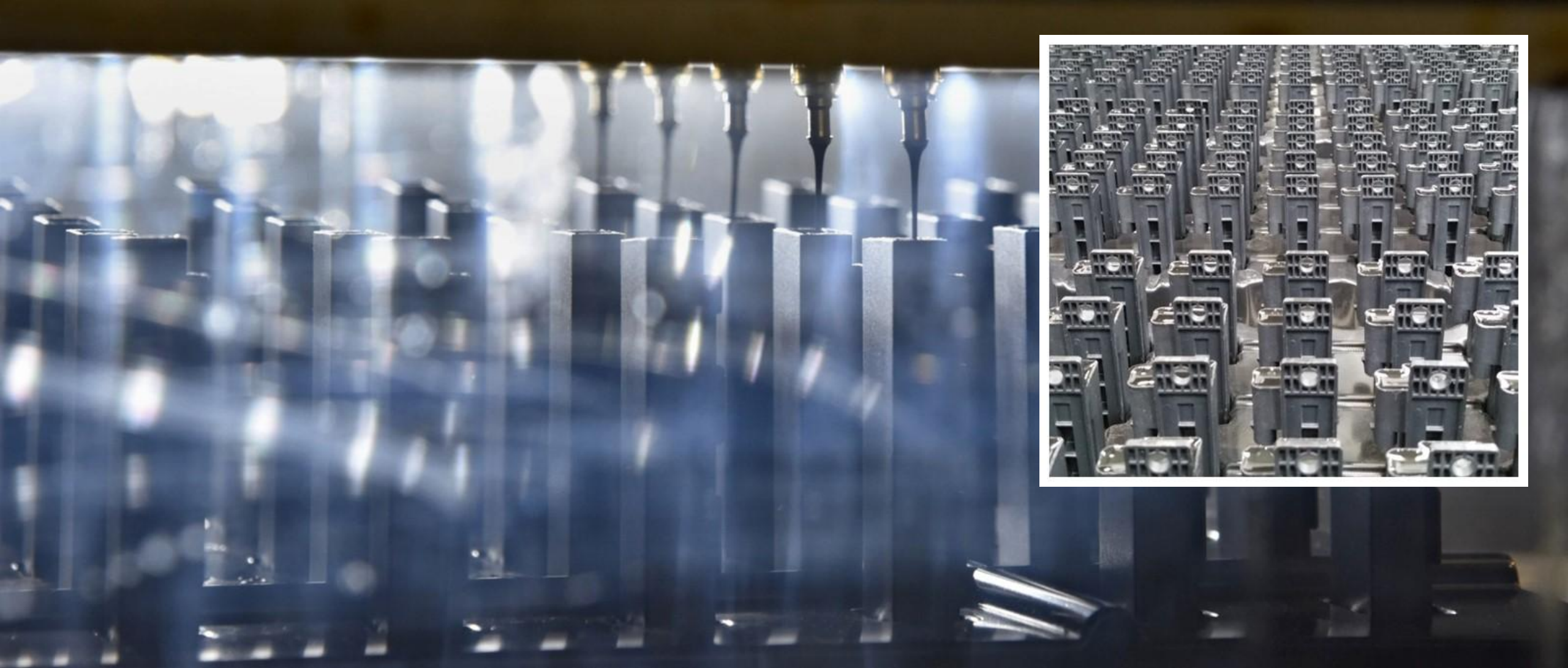
Strategy | Manufacturing Technologies – Potting Technology



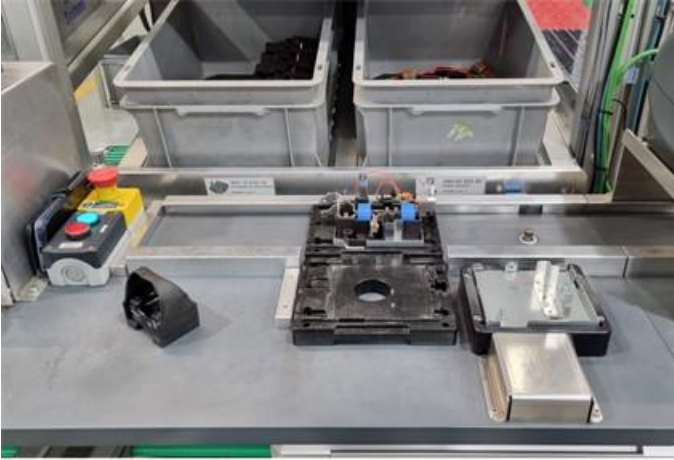
Key Facts

- 3 potting plants in Prachatice CZ
- 4 potting plants in Silao MX
- PU 160, PU 323 and PU 552
- Vacuum and atmospheric potting

Strategy | Manufacturing Technologies – Potting



Strategy | Manufacturing Technologies - Assembly



Key Facts

- Partially automated and manual assembly lines
- One-piece flow according to lean criteria
- Digital monitoring of all essential process parameters

Strategy | Manufacturing Technologies - Assembly



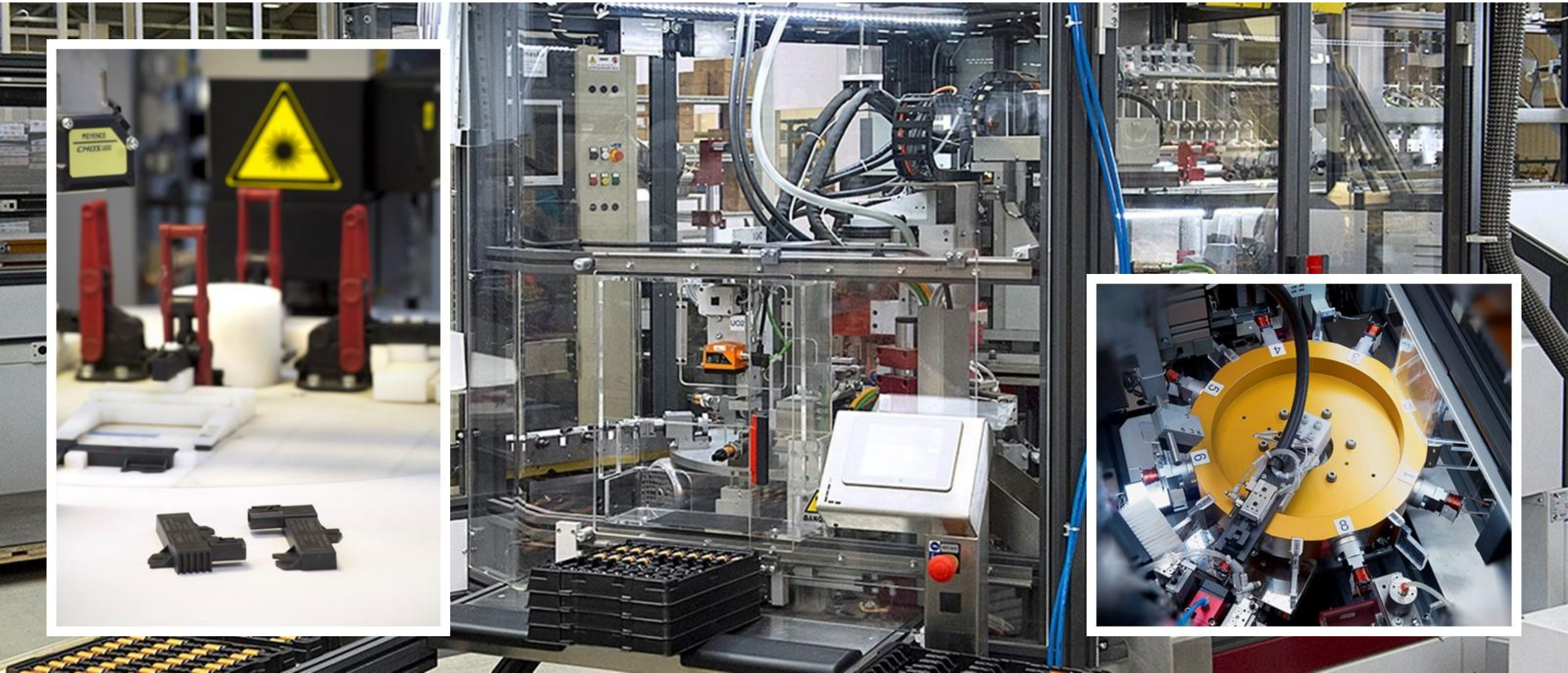
Strategy | Manufacturing Technologies – Testing technology



Key Facts

- Electrical tests (inductance (L), resistance (R), Q-factor (Q), high voltage (V), wattage (W), surge test, turns ratio, imbalance test)
- Tactile measurements
- Optical measurements
- Leak test
- Laser marking
- Automated separation of Nok parts

Strategy | Manufacturing Technologies - Testing





Automotive

Customized solutions – Reliably delivered

Strategy | Fields of Competence in Automotive

Stator systems



Electrical engines



On-board chargers



EMC filters



Energy and engine management



Inverters



Actuators



Battery management



Drive authorization systems



HF antennas for TPM



Keyless entry antennas



Unit controls for hybrid vehicles





Industry and Infrastructure

Energy storage, photovoltaics, DC - charging technology

Strategy | Fields of Competence in Industry and Infrastructure

Chokes



High voltage transformers



Automation and drive engineering



Power components



Systems



Actuators



Transformers for electricity meters



Boost modules



Product groups | Power Solutions

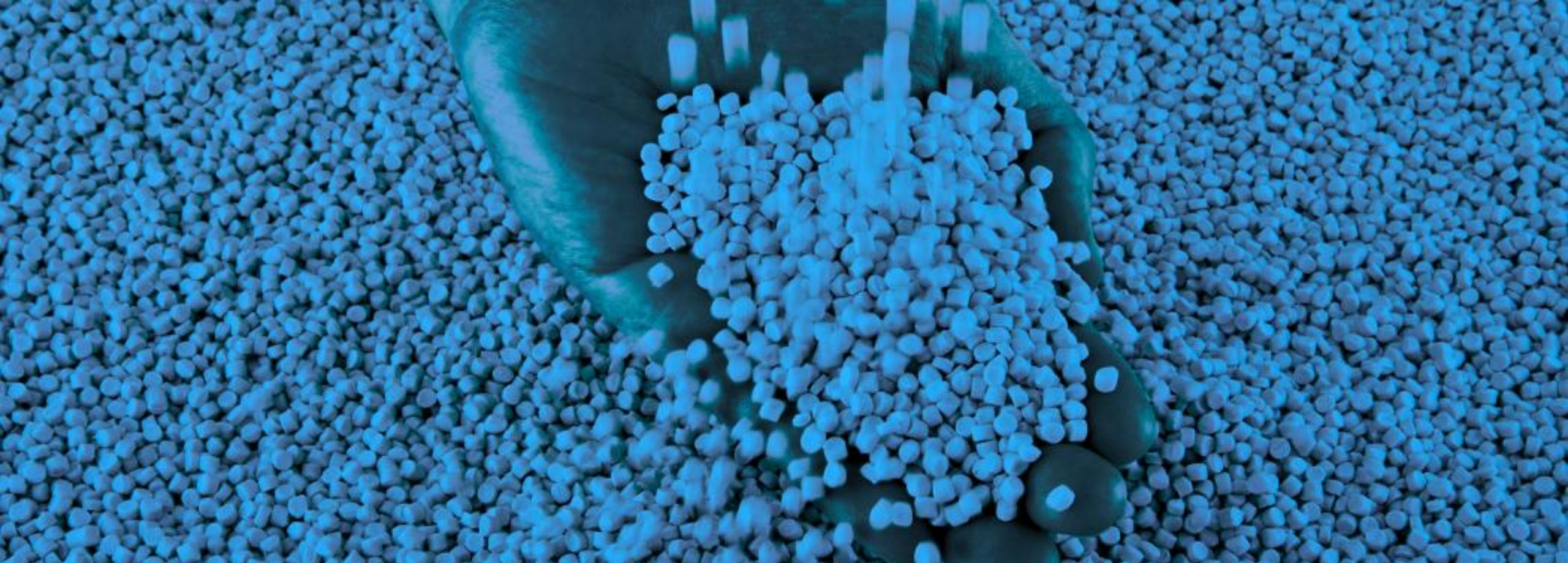
InTiCa Systems supplies customized solutions for energy management.



High Voltage Transformers



Bilateral Charging

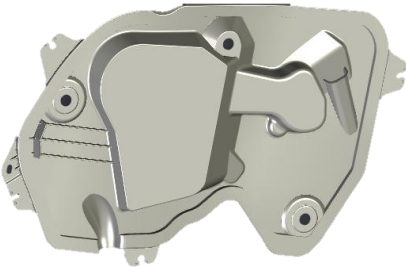


Plastics Injection Unit

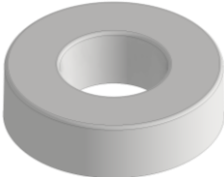
Customized solutions – Reliably delivered

Strategy | Fields of Competence in Plastics Unit

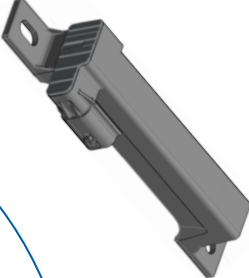
Door Panels



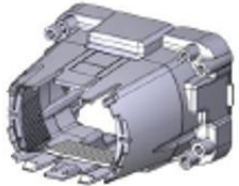
End Caps



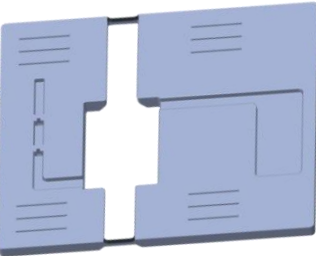
Housings



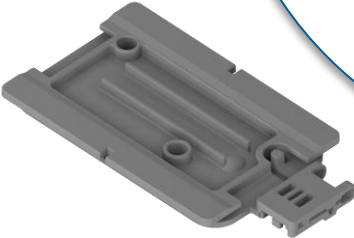
Optical Lens Holders



Hinges



NFC Antenna



Coilformers



Bezel Covers



CUSTOMERS



MARQUARDT



VARIOSYSTEMS®



FRÄNKISCHE





InTiCa
Systems

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