

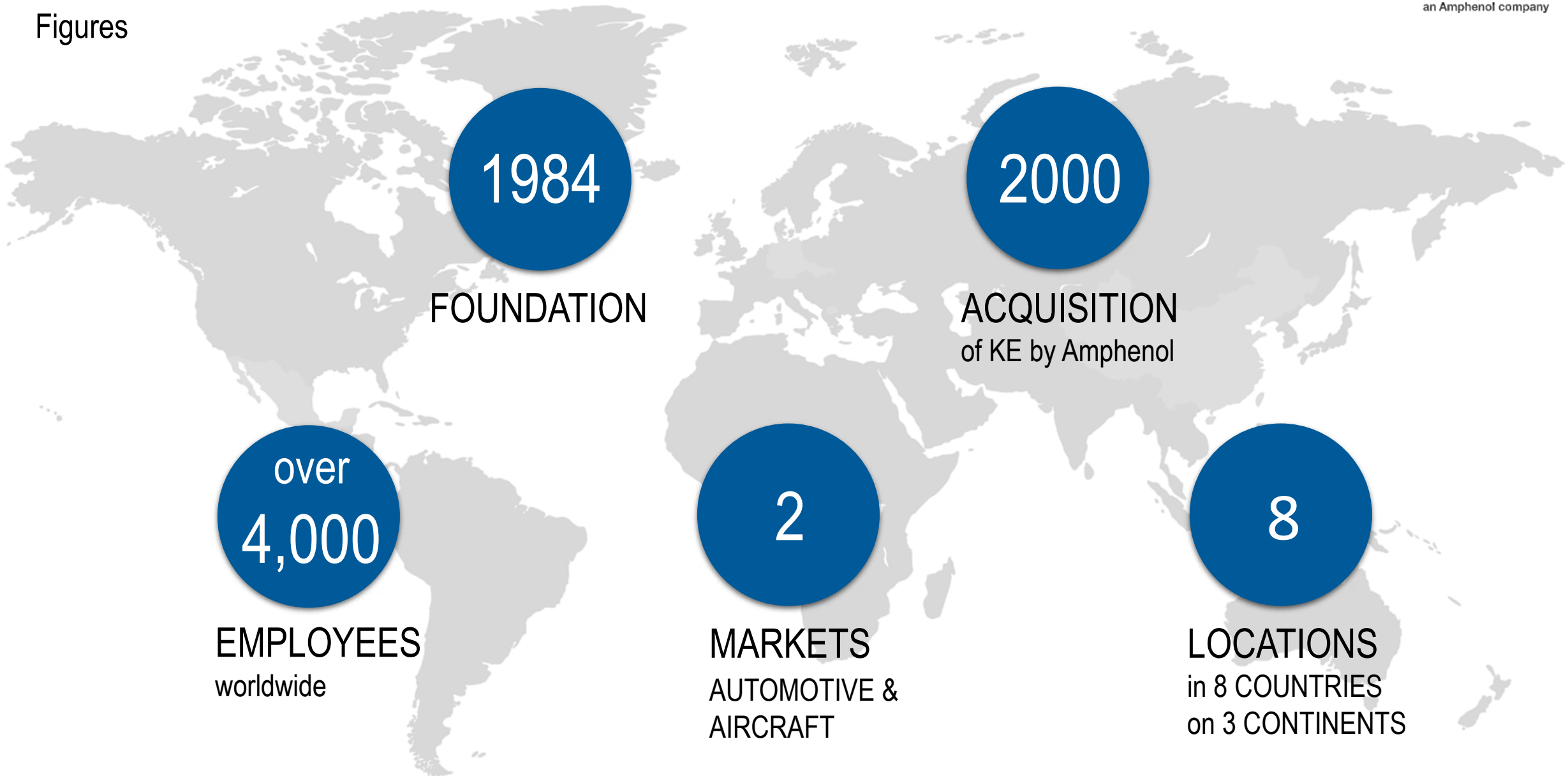
KE Elektronik GmbH

STRONG CONNECTIONS. WORLDWIDE.



KE ELEKTRONIK

Figures



KE ELEKTRONIK

Locations

HQ Marktlustenau, Germany



Ostrov, Czech Republic



Presov, Slovakia



Kočani, North Macedonia



Changzhou, China



Novi, USA



Monterrey, Mexico

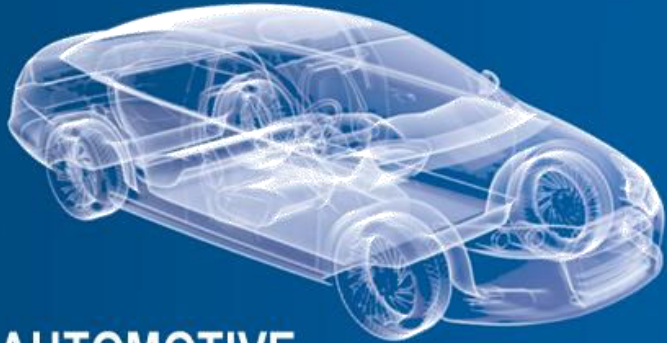


Chennai, India



KE ELEKTRONIK

Markets



AUTOMOTIVE



AIRCRAFT

KE ELEKTRONIK

Products





Automotive



Commercial Aerospace



Defense



Industrial



IT Datacom



Mobile Devices



Mobile Networks

Locations

EUROPE:

AUSTRIA
ESTONIA
IRELAND
POLAND
SPAIN

BELGIUM
FRANCE
ITALY
ROMANIA
SWITZERLAND

CZECH REP.
GERMANY
NETHERLANDS
SERBIA

DENMARK
HUNGARY
N. MACEDONIA
SLOVAKIA
U.K.

NORTH AMERICA:

CANADA
MEXICO
UNITED STATES

SOUTH AMERICA:
BRAZIL

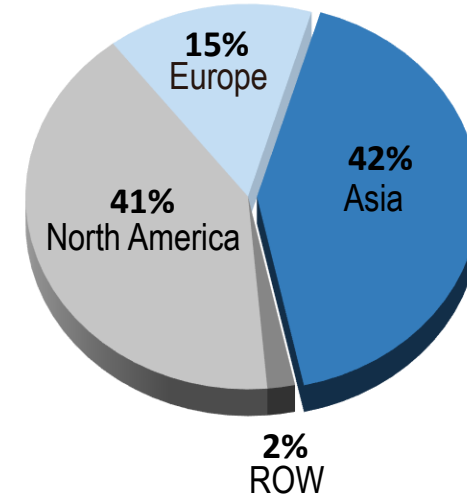
AFRICA:
TUNISIA

MIDDLE EAST:
ISRAEL
TURKIYE
UAE

ASIA:

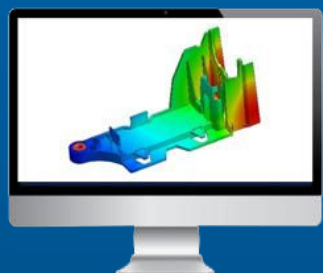
CHINA
INDIA
INDONESIA
JAPAN
MALAYSIA
SINGAPORE
SOUTH KOREA
TAIWAN
THAILAND
VIETNAM

% sales by region

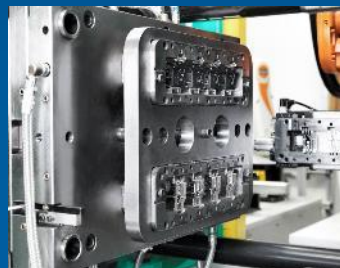


Process Competences – Strong in research, development and production.

Development Competence



Tool Construction



Component Production



Assembly



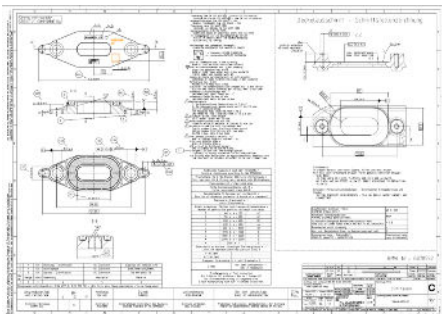
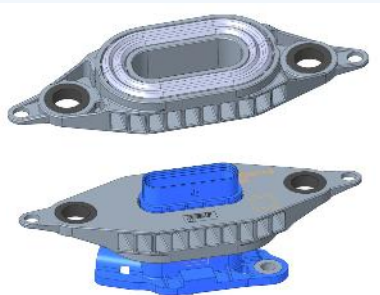
Measurement and Testing Laboratory



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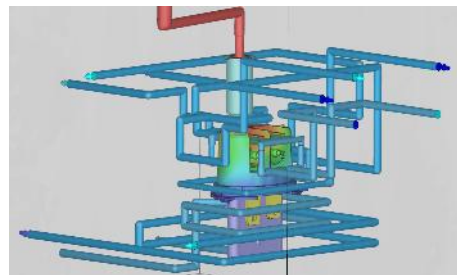
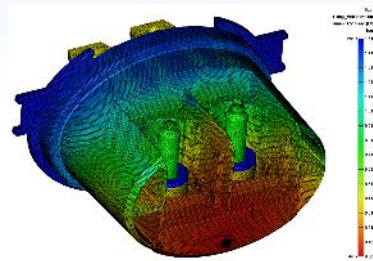
Development Competences

CAD-Software

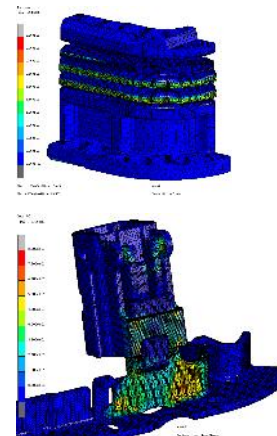
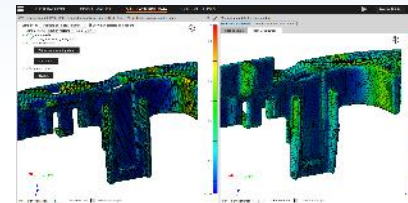


FEM-Simulation possibilities

Moldex3D



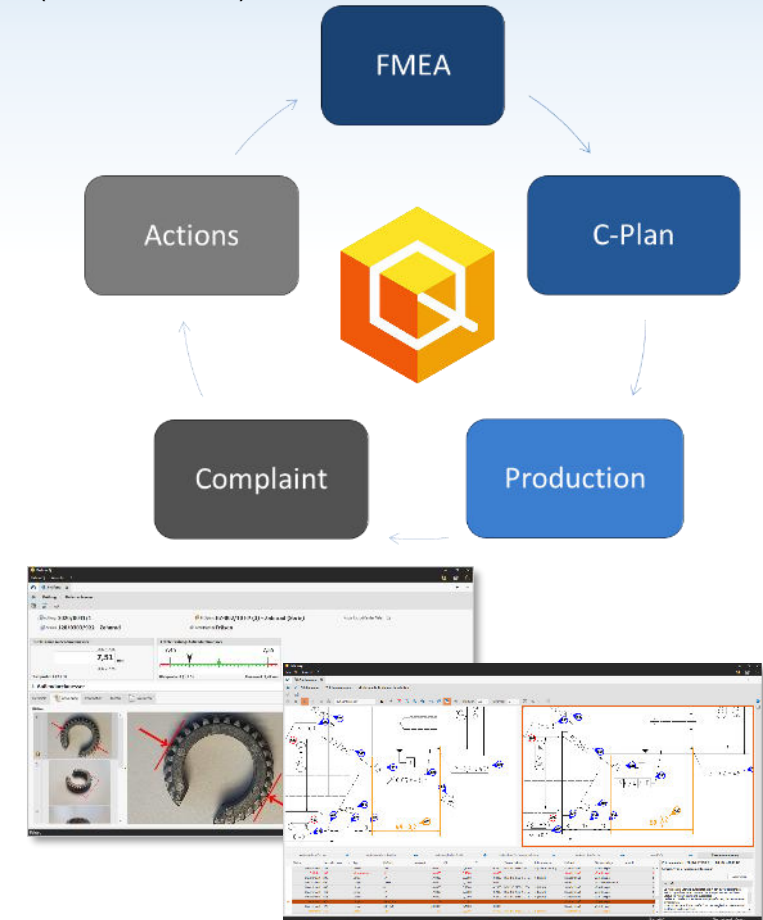
Digmat
MSC Software



Quality Solutions

BABTEC

Closed quality control loop through CAQ
(Babtec + SAP)



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Injection Moulding

vertical machinery (round and sliding table)

standard horizontal machinery

2K machinery

inline machinery



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Semi automated manufacturing and assembly

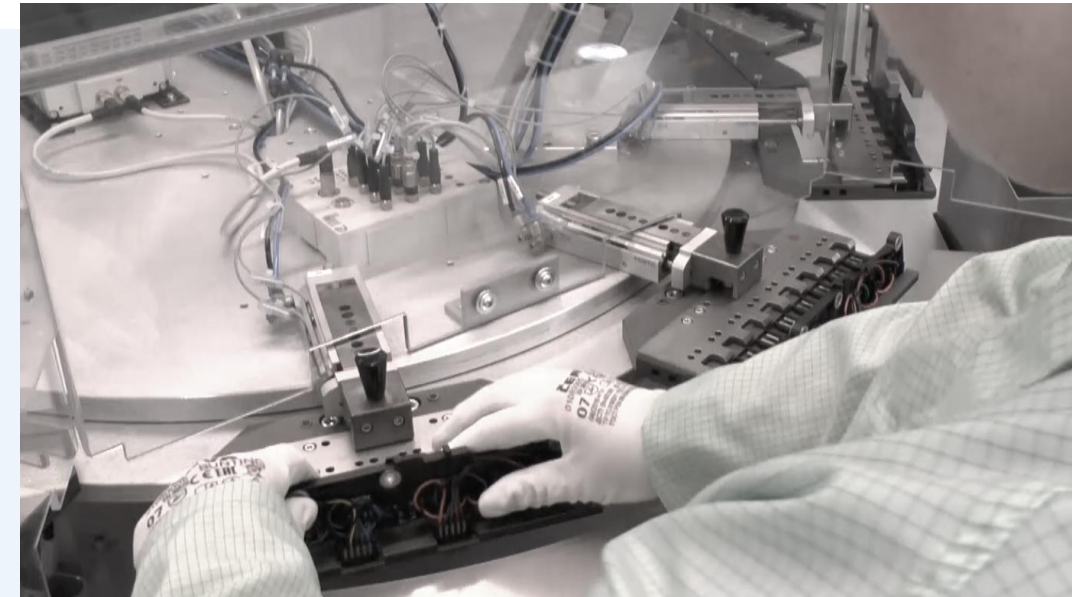
Semi-automated systems and manual processes (crimping, soldering, ...)

Manual machine loading and unloading

Monitoring of processes

Visual inspection, manual functional testing

Flexible adaptation to customer-specific requirements



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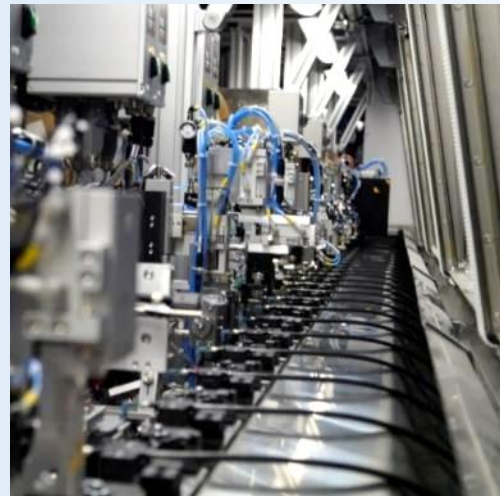
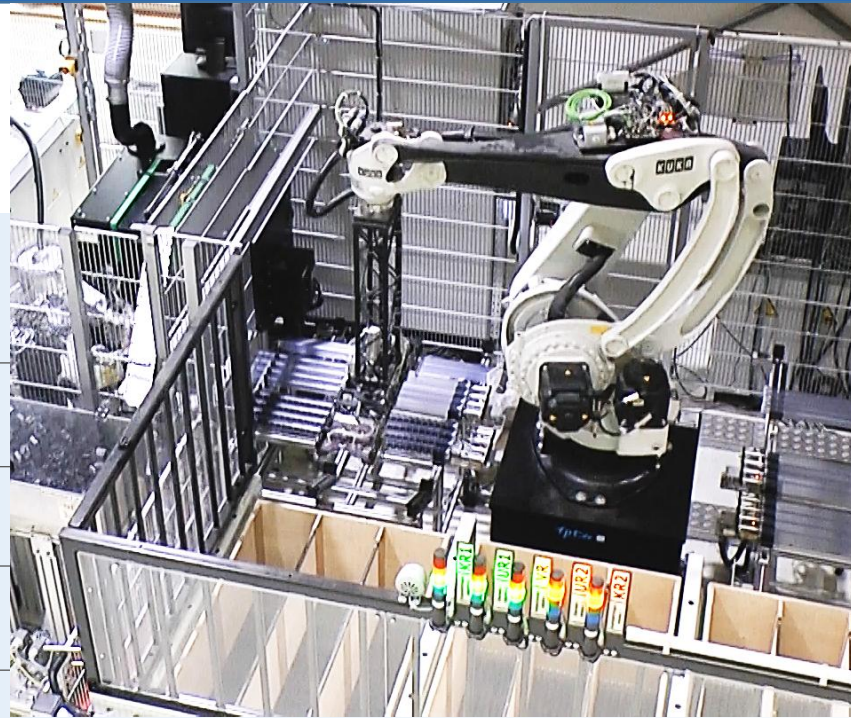
Automated manufacturing and assembly

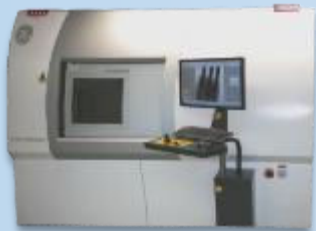
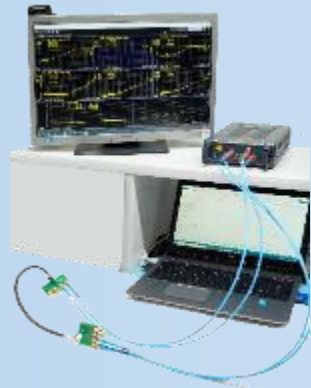
development and construction of automation systems

fully automated processing systems

implementation of new technologies

realization of highest quality requirements





Electrical Measurement Technology

- LF (Continuity Test, Insulation Test, High Voltage Test)
- RF (S-Parameters, Eye-Diagram, Impedance)
- EMC (shield attenuation)
- ESD

viscosity
testing
plastics

environment
simulation

climatic & temperature shock
chamber,
salt spray test chamber

dynamic shock
testing
(shaker)

3D printer

CT-system &
scanner for
2D & 3D
measurements

slow motion
bending test

cleanliness
analysis



KE ELEKTRONIK

Sustainability | Quality



Conflict Minerals Reporting



Sustainable Development Reporting System

Amphenol®

Product Carbon Footprint



LCA for Experts

Certificated by ISO45001

Certificated locations:
Marktlustenau (2022),
Ostrov (2022), Presov (2023),
Monterrey (2024),
Kocani (2025)



Closed quality control loop through CAQ

Modular Software | Babtec + SAP

FMEA, C-Plan, Sampling, Series Testing, Complaints
Automatic tracking of actions
Consistent Lessons Learned

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Driver Assistance

HIGH FREQUENCY WIRE SYSTEMS

Wire harness + Camera customized products

Highly automated production

Development Competence & Know How

Own Tooling / Machines & Components

Global Footprint

Traceability at individual part level

Almost all approved connector families industrialized



HSD
FAKRA
Mini-FAKRA
Ethernet
high-speed
low-speed



APPLICATIONS

Digital Infotainment Application

Autonomous driving

LVDS Cameras

Surround-View Cameras

4K Cameras

360° cameras

3D navigation

Display connection

Antennas for radio / GPS

Bluetooth application

Distance sensors

Radar / Lidar

Intelligent Lighting

4K displays



Customized Solutions Own Components



APPLICATIONS

Engine Cooling
 Battery Cooling
 Temperature Sensor
 Electrical heater
 EV Cooling Pumps
 Thermostat
 Electrical climate compressor



Production Process
 Injection Molding
 Robotic Automation



ENGINE & ANCILLARY COMPONENTS

Engine & Battery Cooling

Temperature Sensorics

Customized Solutions / Development Competence at KE

Own Tooling / Machines

Innovative Solutions in 2K molding

Highly automated production

Own Components / Interface 4 mm round, 9.5 / 12 mm flat

Global Footprint

HV APPLICATIONS

Adapter / Interfaces for Battery systems

Auxiliary unit interface

Automated production process

Development Competence & Know How

Own 4 mm round HV interface (round and oval)

Own Tooling / Machines & Components

Global Footprint



AUTOMOTIVE Adapter INTERFACES



RADSOK®



APPLICATIONS

Low / High Voltage Connections

Auxiliary Harnesses

LV Adapter for Battery Systems

Headers for Aggregates

Battery Cables

Overview Automotive Applications – Engineered Connections. Strong in Application.

antenna systems

- ▶ passive and active antennas
- ▶ antenna connection with Koax-wire (FAKRA)

exhaust systems

- ▶ lambda sensors
- ▶ temperature sensor for exhaust systems
- ▶ nitrogen oxide emission sensors (NOx)
- ▶ selective catalytic reduction (SCR / AdBlue)

doors & liftgate

- ▶ power window motors
- ▶ central locking systems
- ▶ NFC antenna
- ▶ electrical liftgate system

mirror

- ▶ mirror wiring with camera connection

display & assistance systems

- ▶ interior mirror
- ▶ camera systems for rear view and 360° cameras
- ▶ infotainment
- ▶ connection antennas

chassis

- ▶ shock absorber adjustments
- ▶ rear axle steering

steering

- ▶ electronic steering

climate and heating

- ▶ air condition systems
- ▶ auxiliary heating systems

eMobility

- ▶ refrigerant compression
- ▶ onboard charger
- ▶ auxiliary heater
- ▶ high-voltage storage
- ▶ battery cooling
- ▶ temperature sensors
- ▶ thermal management

motor and aggregates

- ▶ engine cooling
- ▶ fuel handling devices
- ▶ windscreen washer system
- ▶ heating elements for engine cooling systems
- ▶ HVAC
- ▶ hybrid applications

power train & transmission systems

- ▶ gearbox harnessing
- ▶ speed sensors
- ▶ temperature sensors

driver assistance systems

- ▶ High- and Low-Speed Ethernet applications for radar and lidar
- ▶ digital lighting

autonomous driving

KE ELEKTRONIK

Quality Management - Certificates

Locations in Germany, Czech Republic, Slovakia, China, Mexico und North Macedonia

Certification Occupational Health and Safety Management
ISO 45001

Certification according to
IATF 16949

Environment certification
ISO 14001

TISAX

Level 3 for location Marktlustenau
Level 2 for all other KE locations

