



# COMPANY BROCHURE 2024

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Spare Parts Specialist since 1906

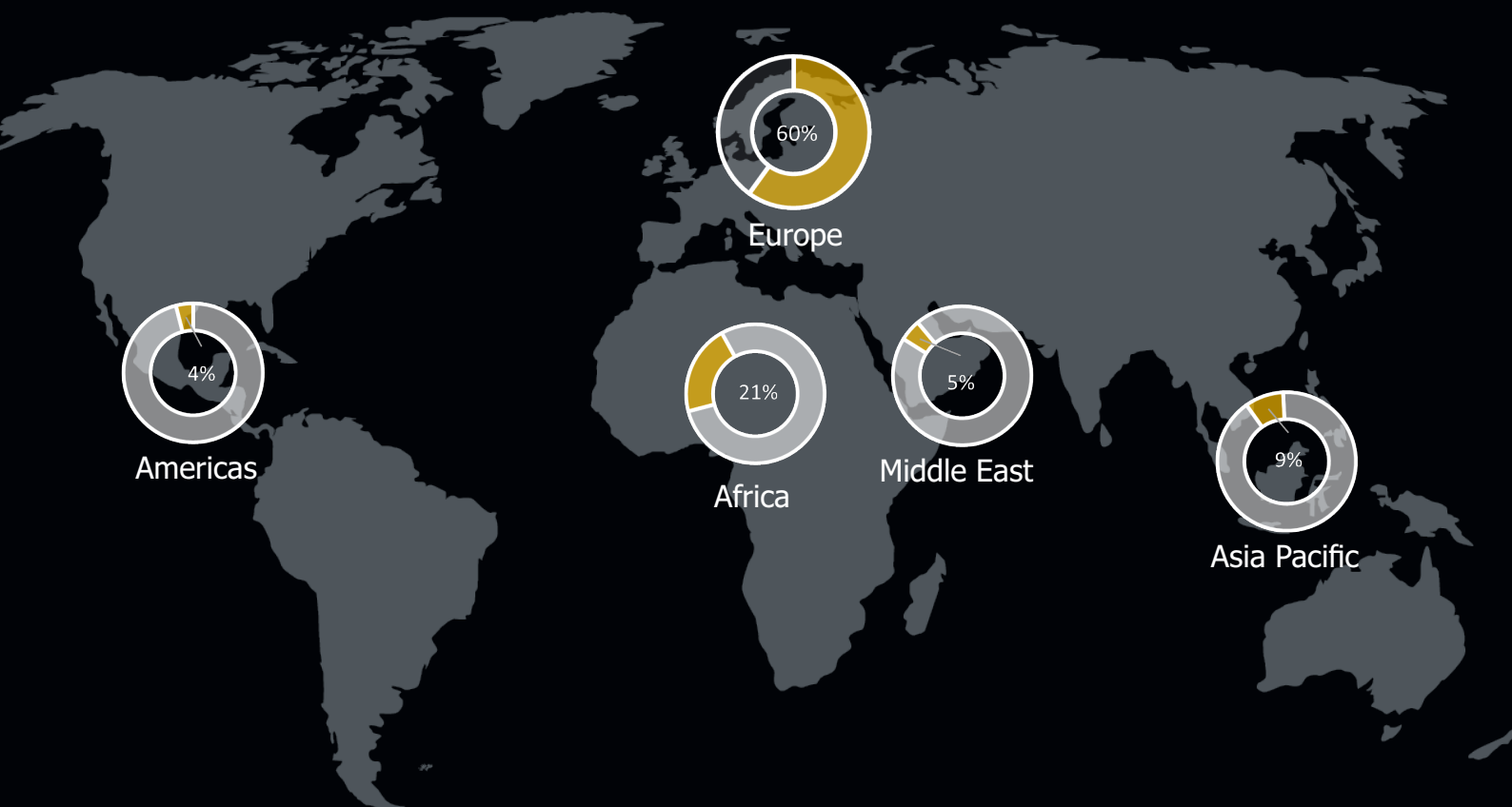


At IKA Germany, partnership is not a set-phrase, but a commitment for generations. As OEM carbon brushes producer for starters and alternators, GE BE has always been recognized for quality and got established as the brand of choice for the rebuild industry globally.

Subsequently, this GE BE commitment to excellence has been the benchmark during our portfolio expansions and acquisitions. Living up to the expectations of our partners in 70+ countries is the driving force to continually improve our service levels.

As a family business, we are committed to this heritage and value the responsibility of cooperative relationships with our partners.

Today we continue our dynamic growth as systems provider for sensors and engine management, whilst treasuring our legacy and foundation.

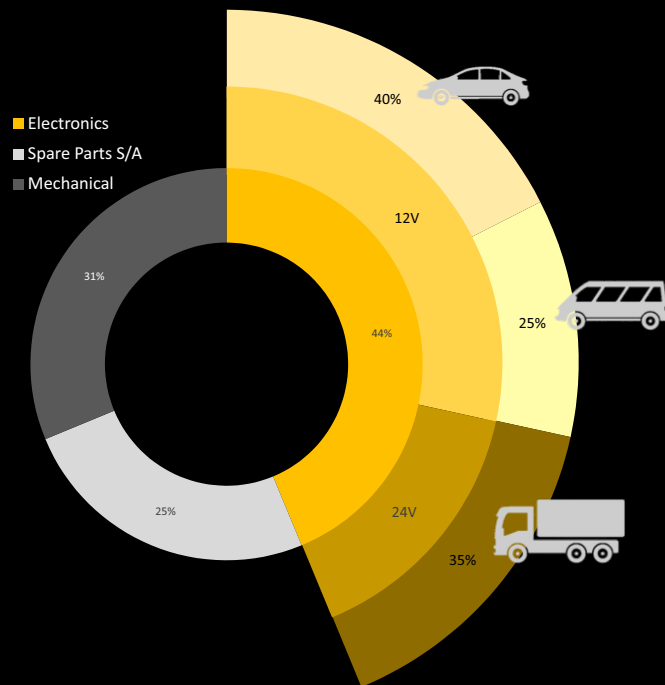


# OUR VALUE COMMITMENT

BENCHMARK FOR QUALITY & SERVICE

LONG-TERM PARTNERSHIP

OPEN COMMUNICATION



The development experience and project scopes ranges from OEM/OES top tier industry volumes to small series exclusivity.

GEBE-products are manufactured according to the latest technical and ecological standards in automated production lines.

Our long-standing partnerships span from family-owned medium sized companies to market leaders across industries, providing us with continuous input to learn, challenge and improve ourselves.



# CORE RANGE / COMPLEMENTARY RANGE

~ 6.300 part numbers on TecDoc

## Exhaust system

NOx Sensors  
EGR Valves/Modules  
Pressure converter  
Exhaust Gas Temperature Sensors  
Lambda Sensors  
AdBlue Modules  
Exhaust Pressure Sensors

## Engine/Gearbox

Idle Control Valves  
Mass Air Sensors  
Engine Oil Level Sensors  
Camshaft Sensors  
Crankshaft Sensors  
Intake Manifold Pressure Sensors  
Control Unit, automatic transmission  
RPM-Sensor, automatic transmission  
Throttle Valve Position Elements  
Central Magnet, camshaft adjustment

## Glow/ignition systems

Ignition Coils  
Switch Unit, Ignition System  
Glow Time Relay  
Control Unit, Glow Time

## Fuel System

Fuel Pumps  
Fuel Feed Unit  
Fuel Pump Relay

## Universal Electric Parts

Main Current Relay  
Crimp Connector  
Relay Socket  
Time Relay  
Diode  
Plug Distributor  
Fuse Holder  
Switch  
Fuse  
Polarity Reversing Relay  
Voltage Transformer

## Drive/Chassis

Wheel Speed Sensors  
Warning Contact, Brake Pad Wear  
ABS Overvoltage Protection Relay  
RPM-Sensor, Automatic Transmission  
Longitudinal-/Lateral Acceleration Sensors  
Level Control – Air Suspension



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# CORE RANGE / COMPLEMENTARY RANGE

~ 6.300 part numbers on TecDoc

## *Spare Parts Starter/Generator*

*Alternator Freewheel Clutch*

*Brush Holders*

*Carbon Brushes*

*Regulator*

*Rectifier*

*Ball Bearing/Needle Bearing*

*Solenoid Switch*

*Sintered Bushes*

*Slip Rings*

## *Instruments*

Sensor, RPM

Sensor, Speed

Warning Light

## *Comfort systems*

Sensor, Parking Distance Control

Audible Reverse Warning System

## *Battery Management*

Control Unit, Battery Management

Battery Relay

Battery Cut-Off Relay

Battery Isolator Switch

Multifunctional Relay

## *Lighting/Signalling System*

*Flasher Unit*

*Ballast, Gas Discharge Lamp*

Hazard Warning, Light Relay

Lights-On Reminder

Low Beam/High Beam Relay

## *Heating/Ventilation/Cooling*

Resistor, Interior Blower

Regulator, Interior Blower

Relay, Interior Blower

Relay, Air Conditioning

Relay, Radiator Fan

Relay, Radiator Fan Overrun

Sensor, Coolant Temperature

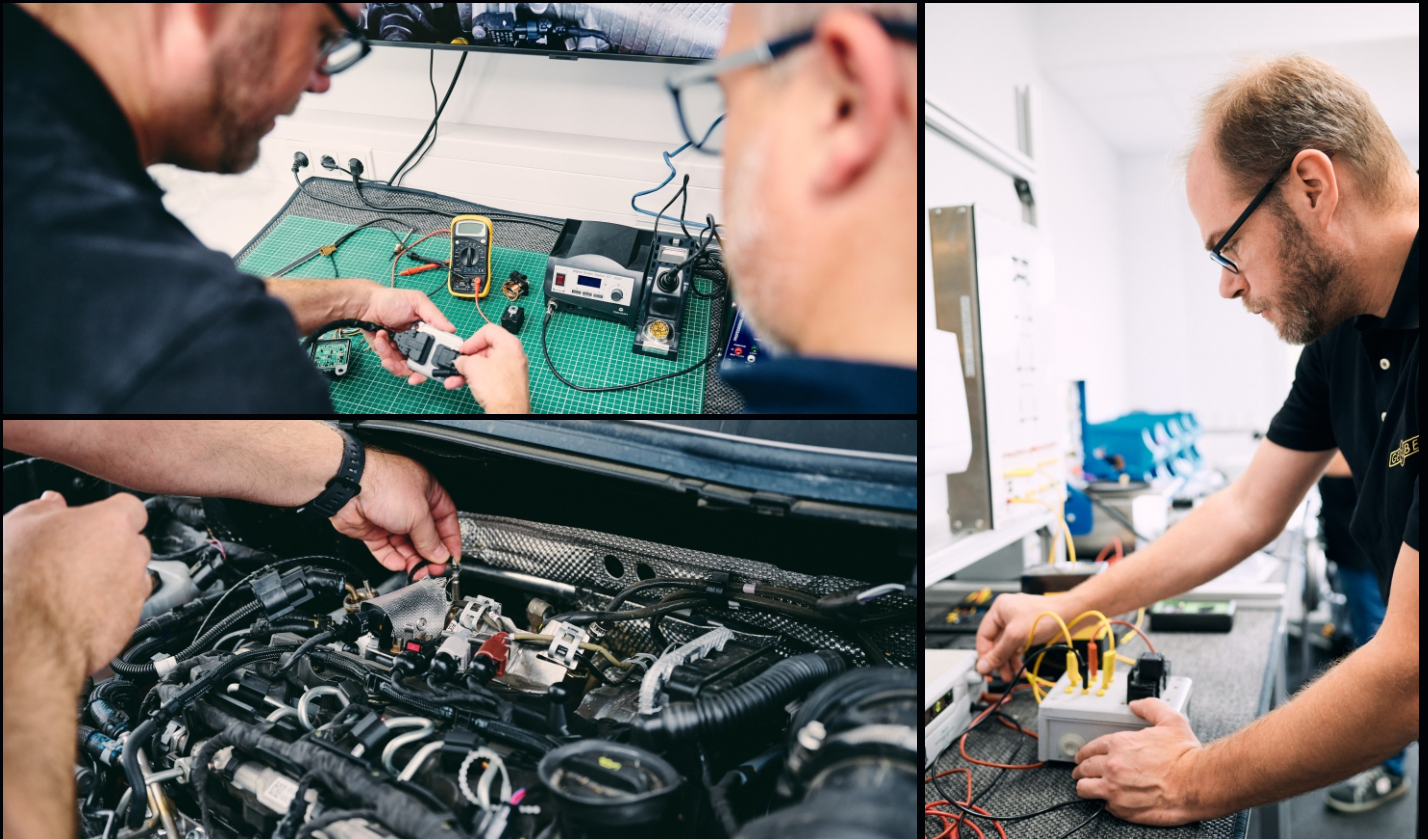


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# QUALITY @ THE TEST BENCH

GEBE products' high-end technical designs compete directly with OEM products, while offering superior value. The entire production is IATF 16949 certified and regularly audited by our engineering team. Driven by customer requirements from various industries, the GEBE range is always cutting-edge with the latest aftermarket solutions.

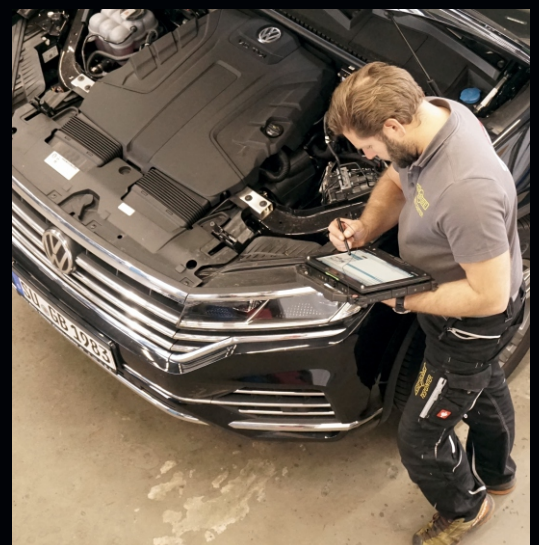


## GEBE TEST LAB & GEBE WORKSHOP - PARTNER TESTCENTERS

In our own test laboratory in Königswinter and the affiliated GEBE WORKSHOP-PARTNER TEST CENTERS, we are simulating the environmental influences, interactions in the exhaust system as well as extensive runtime testing. To guarantee the high quality and operational readiness of our GEBE products we are also continually improving our capabilities to map different software versions.

This network of experienced master mechanics and vehicle mechatronics provides our technical department and product management with indispensable practical feedback. This is another cornerstone to ensure that GEBE products perform well on the road.

In addition, we can continuously improve quality and service offerings, from damage analysis for better clarification to detailed function tests. With regular internal and external training courses, we ensure that our partners are well prepared for the constantly increasing requirements.





# GEBE-SERVICE & TRAINING PROGRAMS

## TRAIN THE TRAINER

## TECHNICAL TIPS & VIDEOS

## F2F, DIGITAL & HYBRID



### COMPACT KNOWLEDGE: e.g. the NOx-Sensor

#### Cause of failure

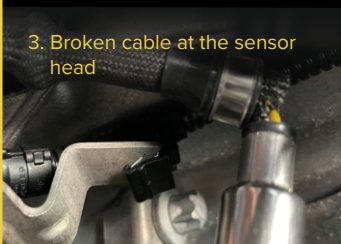
1. Sooty sensor



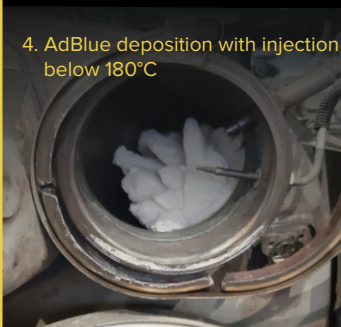
2. Damaged cable



3. Broken cable at the sensor head



4. AdBlue deposition with injection below 180°C



The worldwide tightening of exhaust gas limits for passenger cars and commercial vehicles required not only constant improvements in internal engine combustion, but also ever more efficient exhaust gas aftertreatment systems.

The so-called SCR system (selective catalytic reduction) is used in today's vehicles to minimize the high level of pollution caused by nitrogen oxides. The various types of nitrogen oxides (NOx) are minimized by using a chemical process.

The NOx sensor is responsible for controlling and monitoring this process. These sensors measure not only the NOx content in PPM (parts per million), but also the residual oxygen content in the exhaust gas for further emission control and injection processes.

This information is passed on to the NOx control unit in the form of voltage signals. This processes the respective signals and sends them to the SCR and engine control unit via the CAN bus (CAN drive).

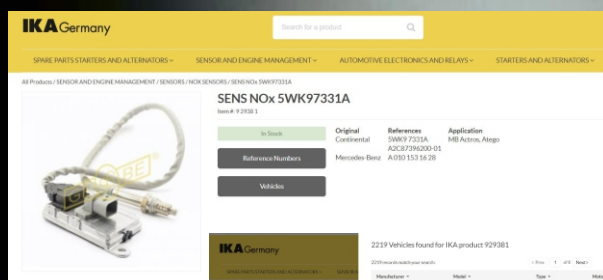
#### When replacing the sensors, please note:

- 1. Check environmental factors and ensure proper function:**  
Defective air mass meters or EGR valves can also impair the control function, as can leaky vacuum lines or exhaust systems.
- 2. Optical component inspection:**  
The NOx-Sensors are more exposed to environmental influences, especially in exposed installation positions. These include stone chipping, corrosion or marten bites.
- 3. Always compare the correct part number on the component with the original number:**  
Software adjustments to the vehicle or manufacturer-related adjustment measures have ensured that part numbers have been omitted or changed. In order to guarantee 100% assignment regardless of the vehicle code, the comparison is fundamentally necessary.
- 4. Calibration/adaptation:**  
NOx-Sensors work on the principle of hysteresis. This means that in addition to the external influencing factors, your own measurement tolerance also plays a major role in the target/actual comparison, depending on the condition of the particle filter, among other things. Please refer to the manufacturer's repair instructions to determine whether the sensor needs to be adapted to ensure proper function.

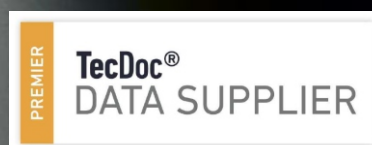
**Any commercially available model with OBD2 capability and the ability to calibrate components is suitable as a test device.**

# GEBE-SHOP

## HIGHEST DATA QUALITY & AVAILABILITY

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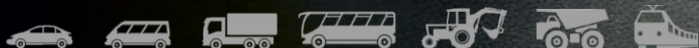
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