SCHLEICH®
Advanced Test Technologies

Setting standards.

Intelligent measurement & testing technology

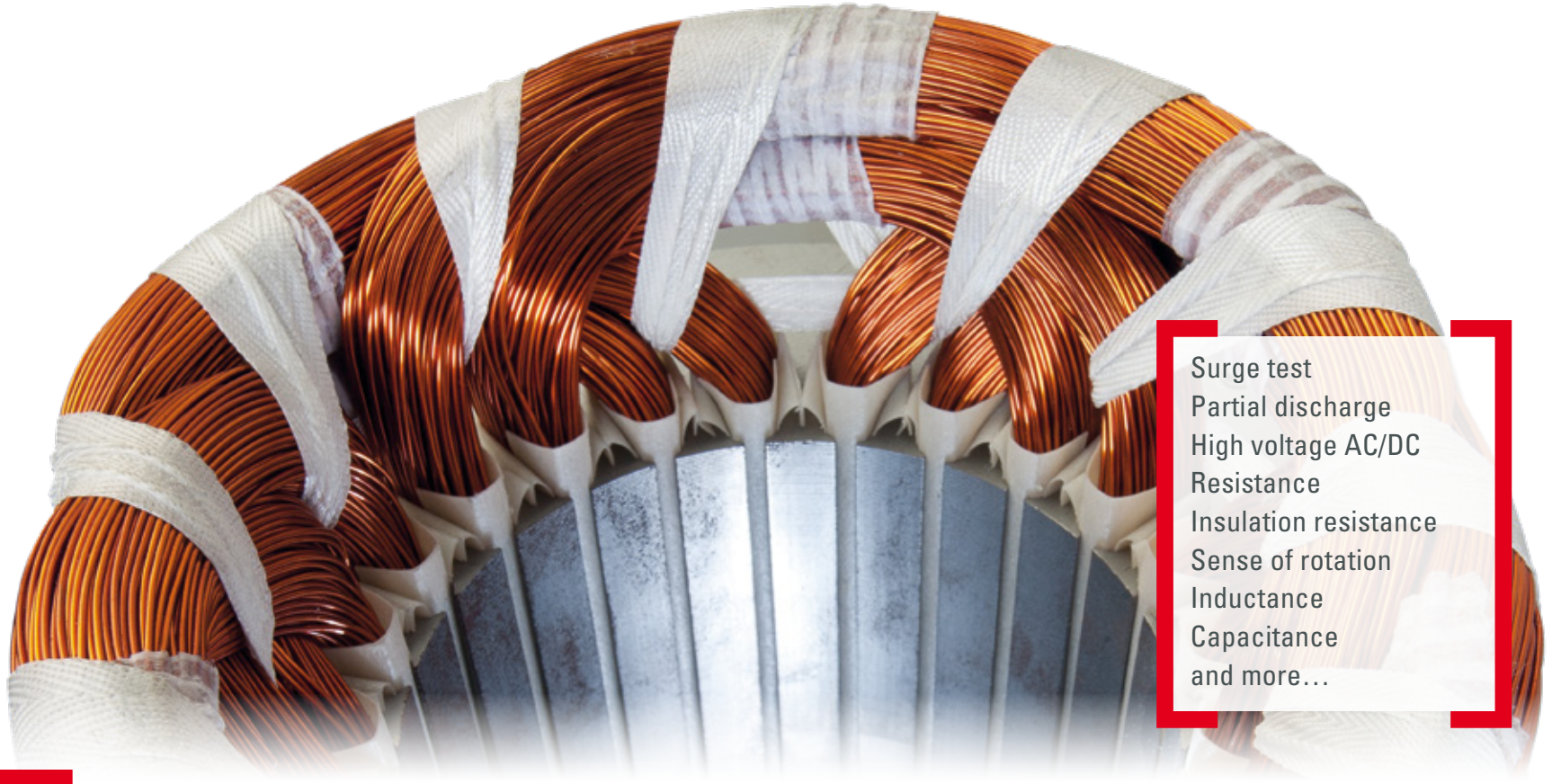
DESIGNED & PRODUCED
IN GERMANY

TEST WITH THE BEST.

Testing technology for electrical safety and function

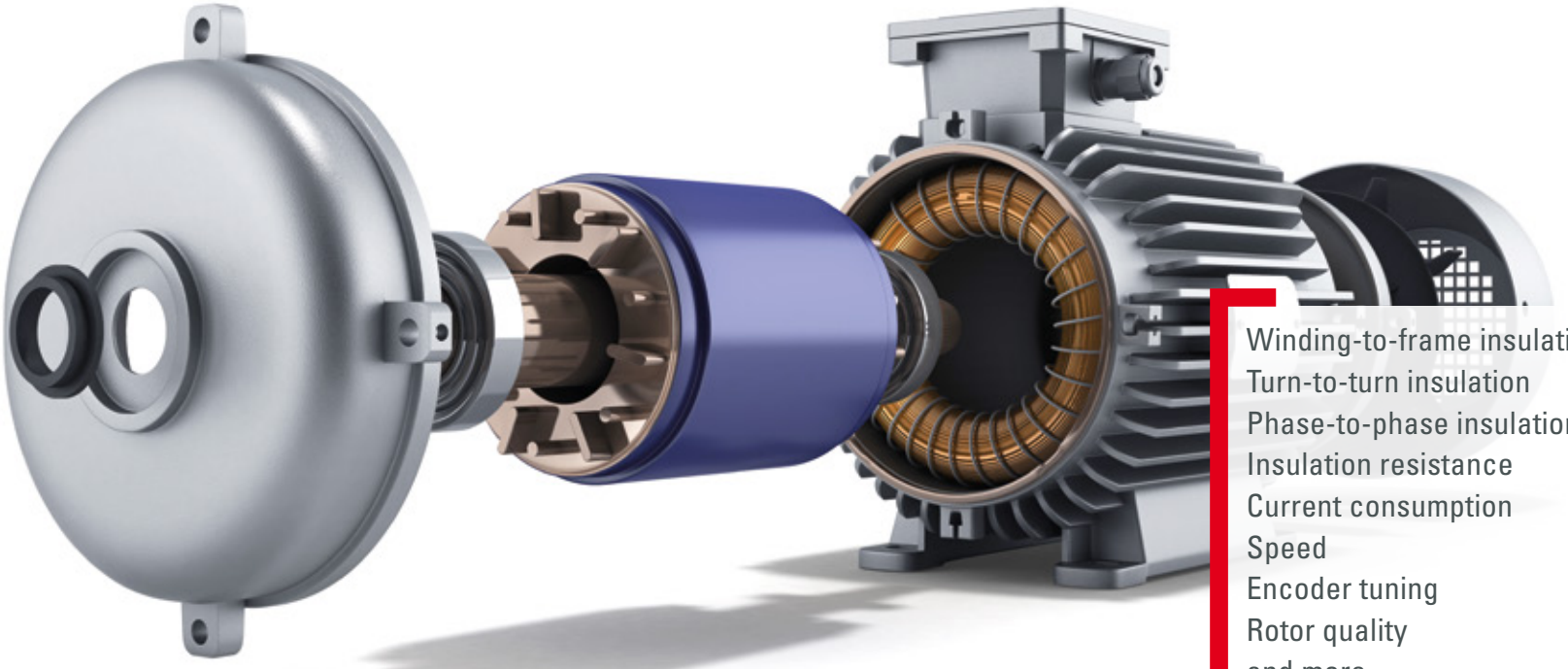
- Medical leakage current
- High-voltage AC/DC
- Insulation resistance
- Leakage current
- Residual current
- Voltage
- Current
- Power
- Overall function
- and more…

Testing technology for windings of all kinds



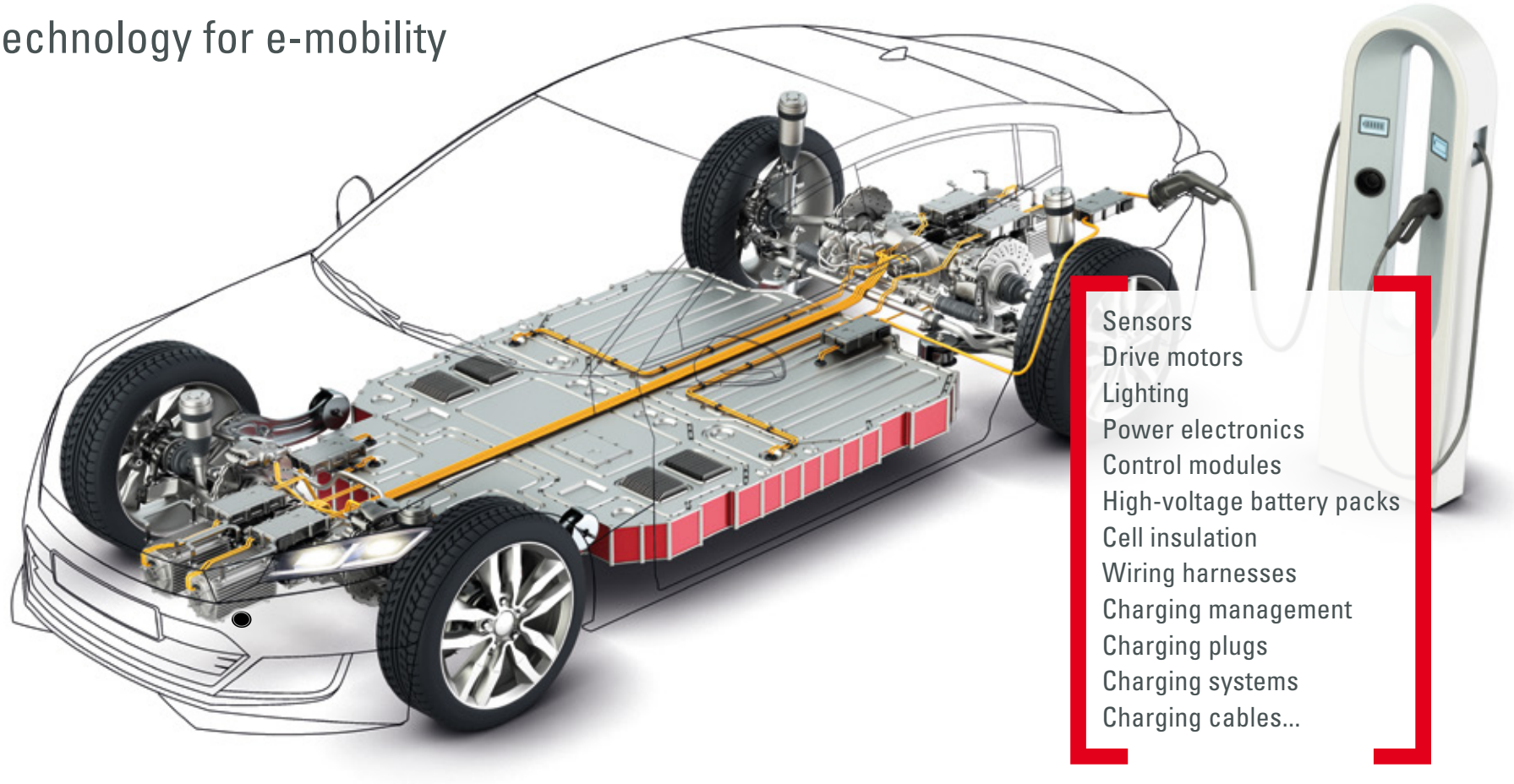
Surge test
Partial discharge
High voltage AC/DC
Resistance
Insulation resistance
Sense of rotation
Inductance
Capacitance
and more…

Testing technology for electric motors



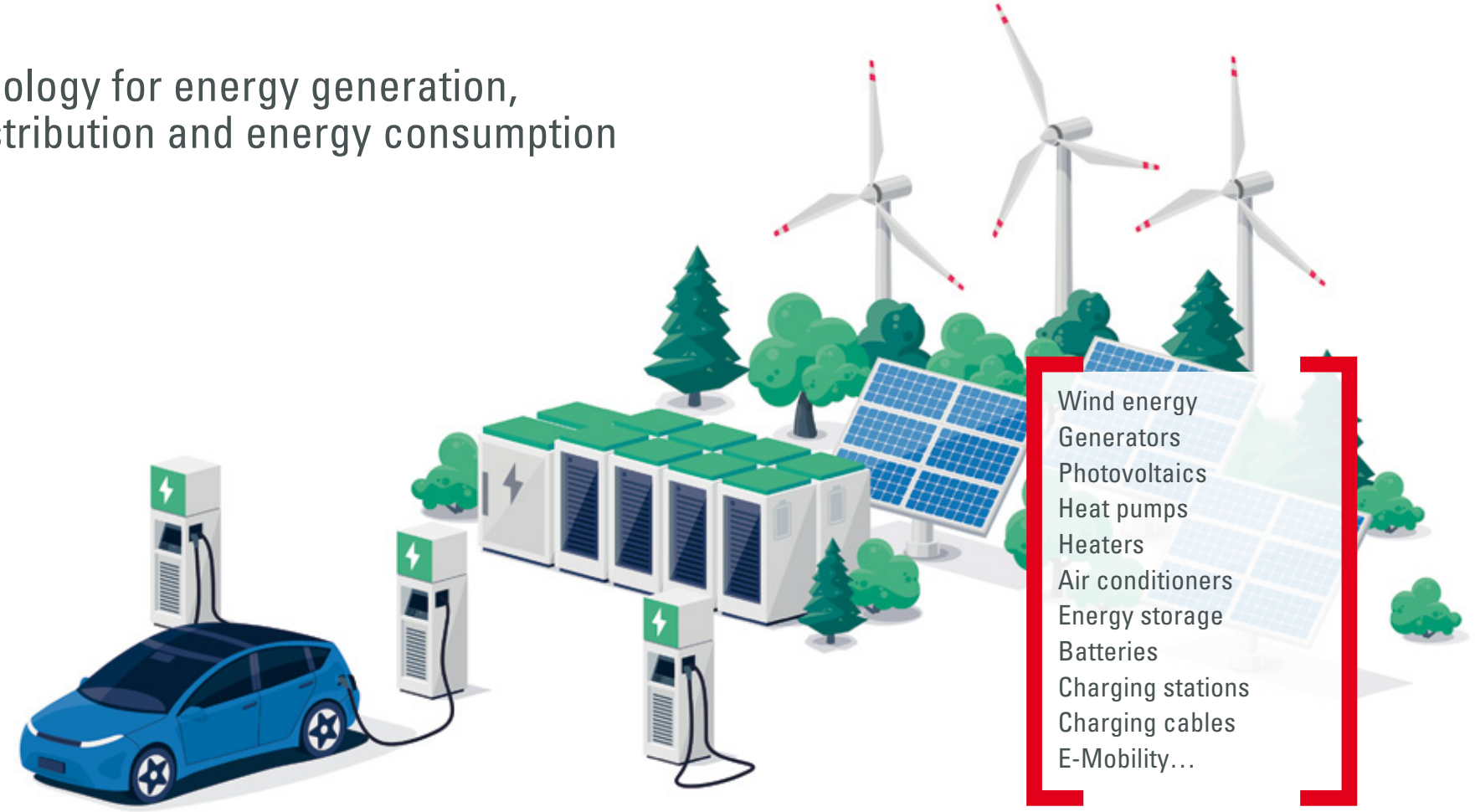
- Winding-to-frame insulation
- Turn-to-turn insulation
- Phase-to-phase insulation
- Insulation resistance
- Current consumption
- Speed
- Encoder tuning
- Rotor quality
- and more…

Testing technology for e-mobility



- Sensors
- Drive motors
- Lighting
- Power electronics
- Control modules
- High-voltage battery packs
- Cell insulation
- Wiring harnesses
- Charging management
- Charging plugs
- Charging systems
- Charging cables...

Test technology for energy generation, energy distribution and energy consumption

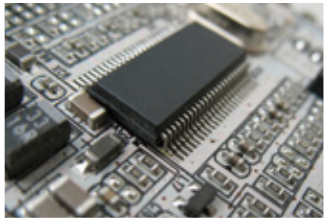


- Wind energy
- Generators
- Photovoltaics
- Heat pumps
- Heaters
- Air conditioners
- Energy storage
- Batteries
- Charging stations
- Charging cables
- E-Mobility…

Testing technology for luminaires

PE/GB-conductor
Insulation
Wiring
ECG-parameterization
NFC
Casambi
Luminous color
Luminosity
and more...

Testing technology for electrical products of all kinds



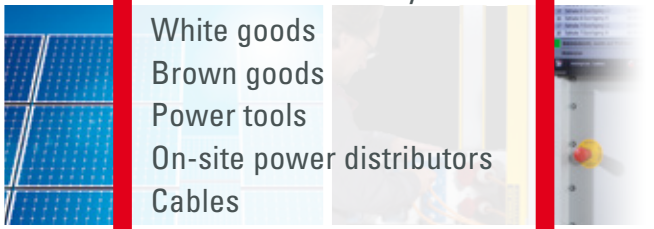






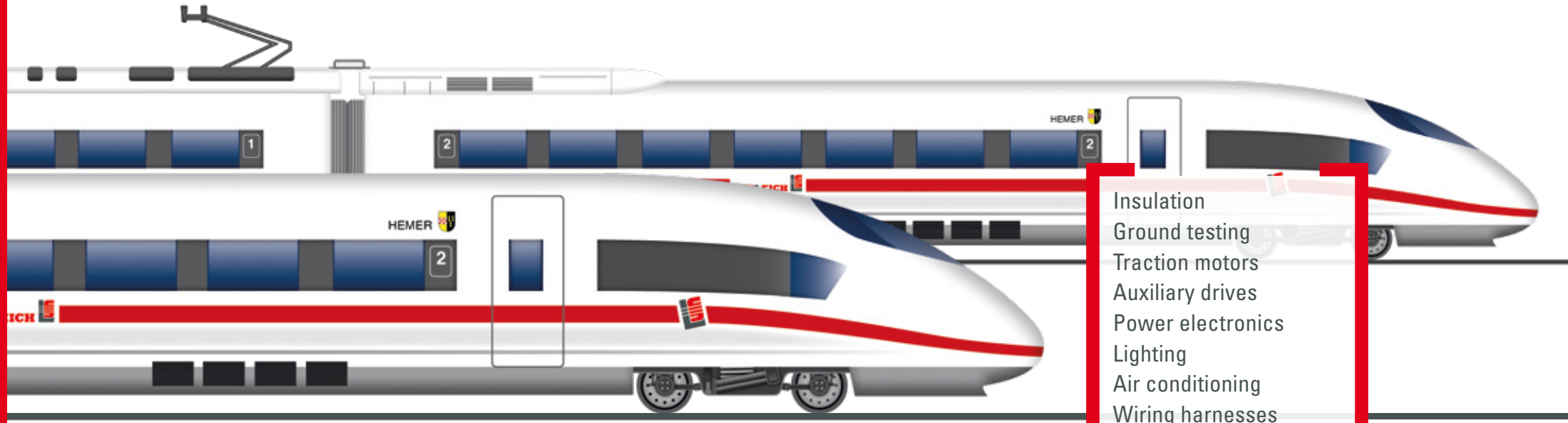




Wherever electricity is used
White goods
Brown goods
Power tools
On-site power distributors
Cables
and more...

Testing technology for railway vehicles



Insulation
Ground testing
Traction motors
Auxiliary drives
Power electronics
Lighting
Air conditioning
Wiring harnesses
and more...

70 YEARS OF INNOVATION.

Company history

1952

Foundation of
Schleich Elektromaschinenbau
by Karl Schleich

1972

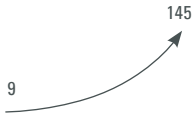
Karl-Dieter Schleich
becomes managing director of
Schleich Elektromaschinenbau

1982

Foundation of SCHLEICH GmbH
by Martin Lahrmann and
Karl-Dieter Schleich.
The company focuses on the
design, production and distribution
of electrical test equipment.

1982 - 2022

Staff

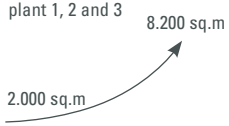


1988

New construction at the current
location and expansion of the
production space to 2.000 sq.m

1988 - 2022

Production space
plant 1, 2 and 3

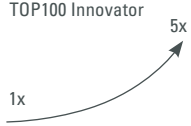


1998

ISO 9001
We have a certified quality
management system

2012 - 2022

SCHLEICH is a
TOP100 Innovator



2014

Dipl.-Ing Jan-Philipp Lahrmann is
appointed managing shareholder.
The third generation ensures
the future of SCHLEICH GmbH.

2018

Karl-Dieter Schleich steps down
from the management board –
but continues to serve the
company as a shareholder with
his expertise as advisor.

Product innovations

Winding machines

1968 Development and production of automatic winding machines for electric motor production and repair in a variety of sizes
1972 Implementation of fully electronic control systems
1985 Transition to PC control

MotorAnalyzer

1985 Production start of the first motor tester for the electrical engineering industry
2003 MotorAnalyzer1 with 4 kV test voltage
2013 MotorAnalyzer2 with 3 kV surge voltage and 6 kV insulation test voltage
2018 MotorAnalyzer2 now with up to 500 GΩ

MTC3

1990 Shipment of the first PC controlled winding tester for stators, generators and winding goods of any kind
1991 First fully automatic stator testing for WILO
1995 Transition from DOS to WINDOWS
2001 Introduction of the modular concept
2017 Partial discharge testing with active antenna

GLP3

1992 Our first PC controlled test stand for safety and function tests for all kinds of electrical appliances
1993 Fully automatic DC armature testing for Mannesmann-Demag
1995 Migration from DOS to WINDOWS
2001 Introduction of the modular concept

GLP2

1995 Production of the first universal safety and function tester for almost every testing requirement
2001 The first tester with large touch color display on the market
2015 GLP2-BASIC
Over 50 customized standard configurations to choose from
2015 GLP2-MODULAR
Advancement of the modular concept with up to 25 test methods
2016 GLP2-BT
Groundbreaking battery tester for e-mobility

MTC2

1999 Launch of the portable PC controlled winding tester
2002 Patented surge voltage evaluation method
2004 Partial discharge testing for mass production
2009 Surge voltage up to 50 kV
2022 The MTC2*R7*, surge voltage testing in the 7th generation

Product innovations

GLP1

2001 Probably the smallest digital safety and function tester in the world, available in 25 standard configurations
2010 Large color display with touch operation
2012 Fully electronic voltage source

Handheld

2001 The ultimate mobile safety tester for a wide range of on-site applications, e.g., in medical technology, on wind turbines and much more.
A best seller to this day…

EncoderAnalyzer

2013 Development and rollout of the EncoderAnalyzer for testing and aligning all types of motor encoder systems
2016 BEMF measurement and angle alignment
2017 Integration of digital encoder communication

Dynamic-MotorAnalyzer

2014 Product launch of the Dynamic-MotorAnalyzer for testing and condition monitoring on running motors and generators
2016 Addition of frequency converter measurement

VoltageAnalyzer

2017 Development and rollout of the VoltageAnalyzer for high-precision surge voltage measurement directly at the winding including simultaneous partial discharge testing with passive and active antenna


8,200 m²
shop floor
3
production facilities
145
staff members
38
countries
47 %
export ratio

INNOVATION IS THE KEY.

Outstanding innovative power.

We were once again able to distinguish ourselves in the TOP100 competition in the category „51 to 200 employees“. Following an elaborate scientific pre-selection process, we managed to advance to the expert jury, winning the highly coveted award for our company‘s innovative accomplishments. This means that SCHLEICH is once again one of the most innovative companies in Germany.

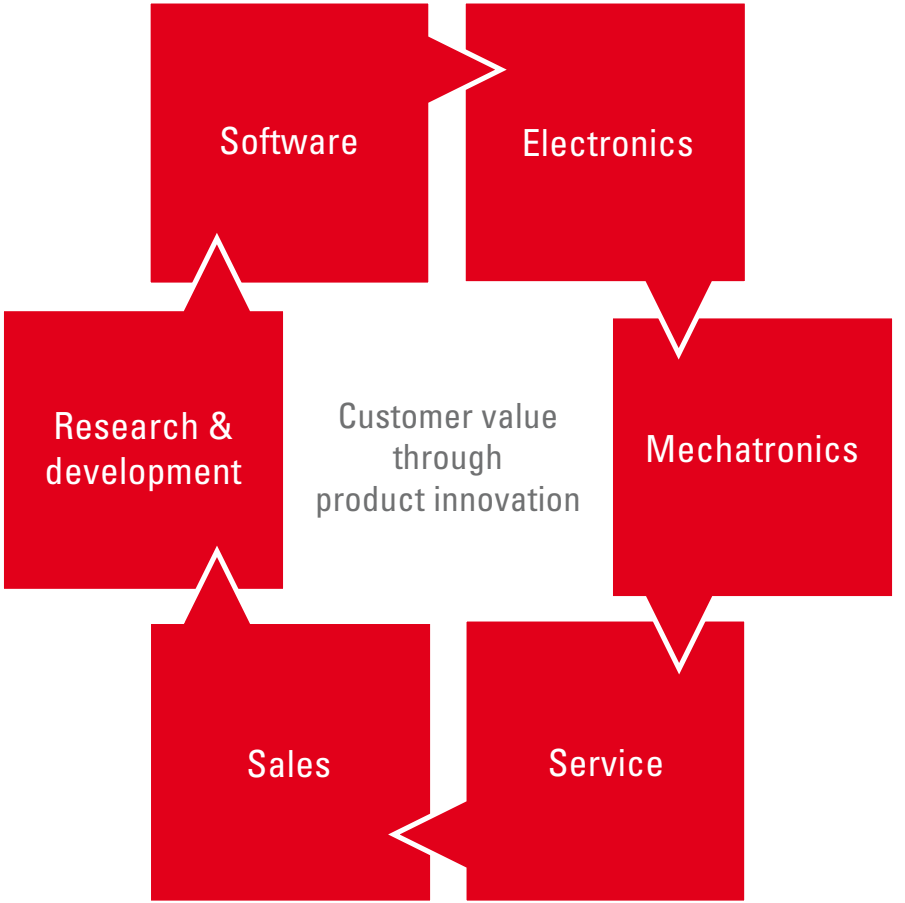
This innovation contest has now been held for the 29th time.
Prof. Dr. Nikolaus Franke and his team from the Vienna University of Economics and Business have been providing scientific support.

After 2014, 2016, 2018 and 2020, SCHLEICH succeeded in winning the highly coveted award for the fifth time in 2022.

Innovative engineering.

SCHLEICH has been pioneering measuring and testing technology for 70 years. Challenges are always welcome. Thinking outside the box is encouraged and expected.

Our innovative power derives from the dialogue with our customers and from bundling our expertise between all departments. This is how we keep coming up with sophisticated improvements and innovations.



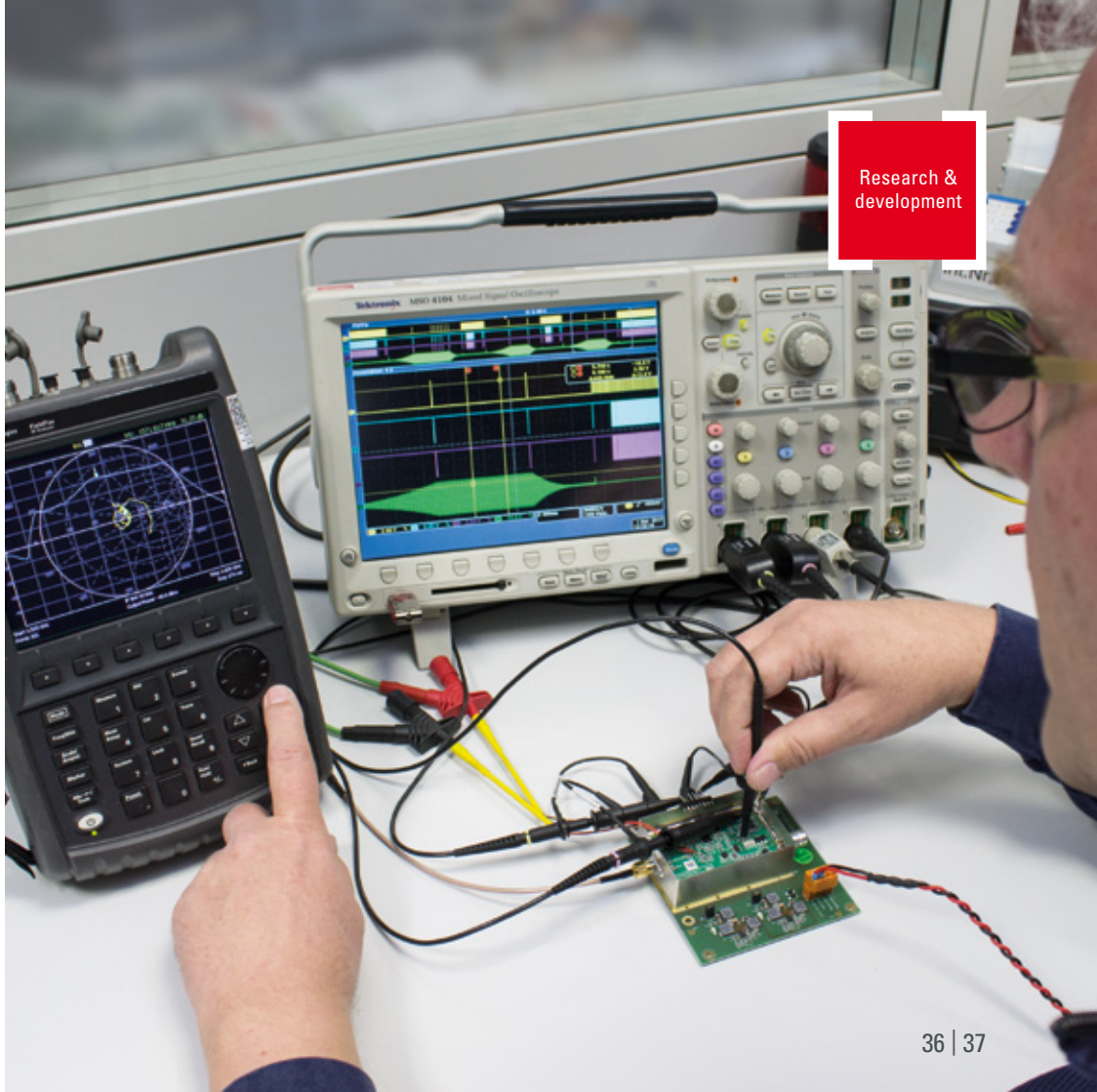
Curiosity, creativity and inspiration.

For SCHLEICH, the challenge of developing new technologies is a permanent one.

Our engineers and software designers approach this task with curiosity, creativity and enthusiasm. Each project undergoes a thorough analysis. Every component, every module, every circuit is specified, tested and optimized.

This is how your demands are turned into technological innovations.

The focus of our activities is always customer value, well beyond common standards. This is how we became a valued development partner for our customers.



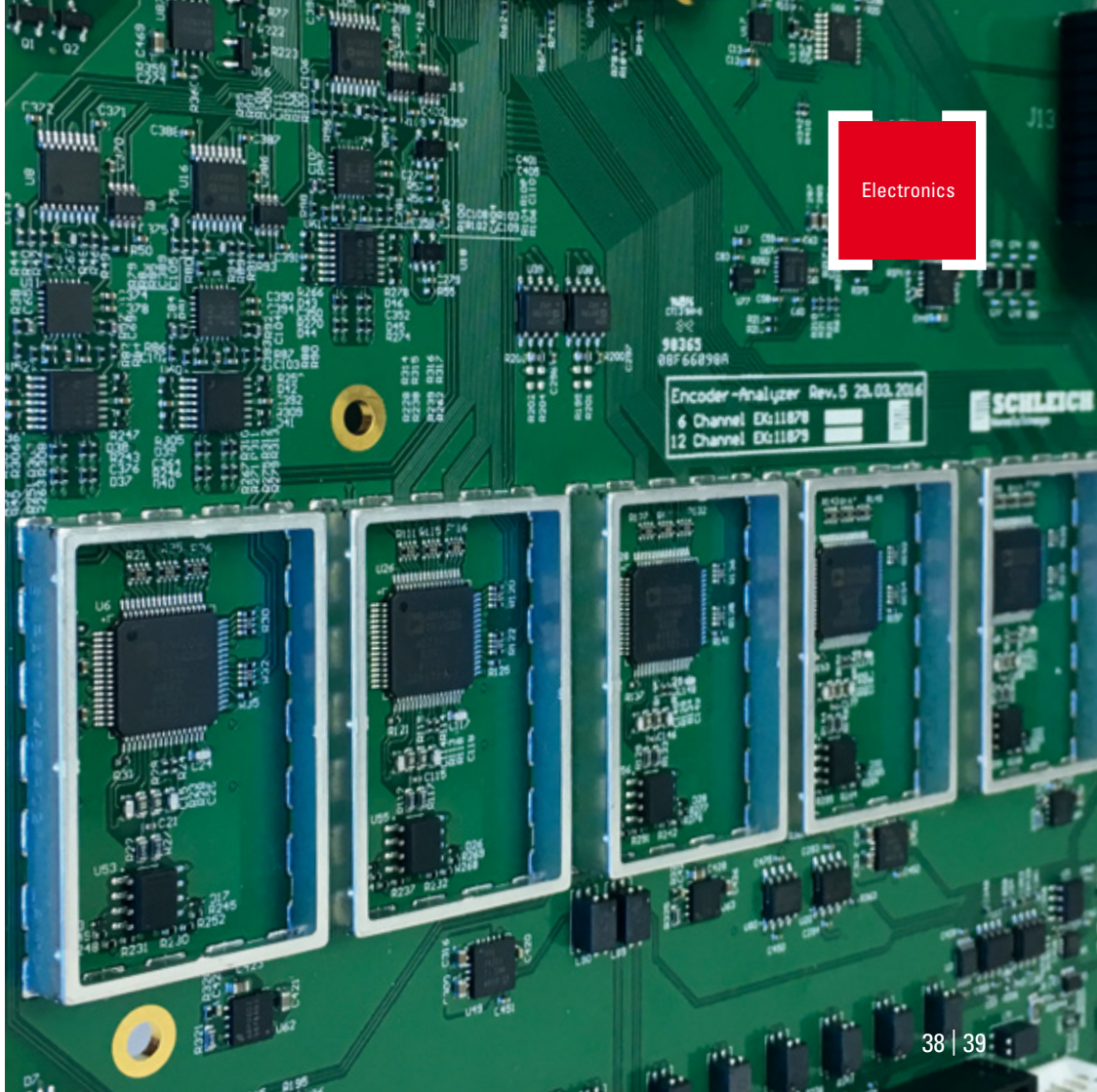
Research & development

The very heart.

Digital high-performance measurement technology is one of SCHLEICH's core competencies.

All electronic modules are in-house developments and are optimized for custom applications. All PCBs are manufactured exclusively in-house using high-quality components and high-end processors. And that is with state-of-the-art machinery.

This is our basis for quality, fast response times, flexibility and high-precision measurement technology. This would not be possible, if we were working with external service providers and subcontractors.



Smart solutions.

SCHLEICH products make an impression – not only with their excellent design and quality, but also in every-day use. The measuring and testing tasks must be as simple, fast and precise as possible.

A convenient and intuitive operation of the devices is the key.
To guarantee maximum usability, the SCHLEICH software follows the "KISS principle": Keep it Simple and Smart.

Our software designers are not only specialists in programming, but also are well informed of the needs of the user.

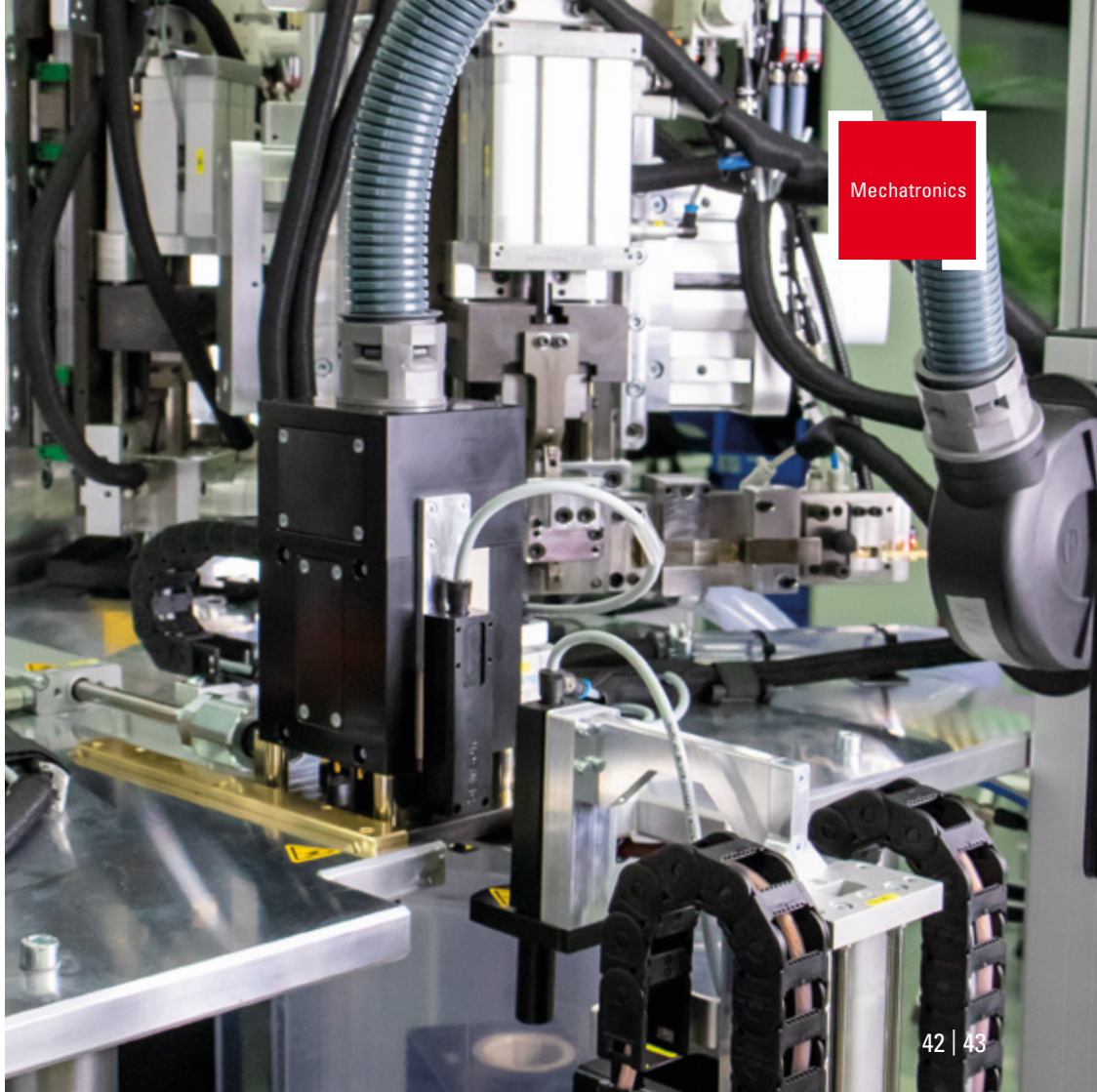
Everything. One-stop.

Optimized to your testing task, SCHLEICH develops tailor-made solutions.

Hardware, software, mechanics, sensors and process control come from a single source. Test technology, DUT fixtures, custom-designed contacting units and many other features are perfectly matched.

A highly efficient team of engineers from the departments of electronics, mechanical design and mechanical production develops optimum solutions for you.

Outsourcing is not an option.



ONE SOURCE. ALL TEST SOLUTIONS.

Perfection in series: Standard testers

Many testing tasks can be performed with standardized single or combination testers. Based on many years of experience, we design and manufacture an extensive range of standard test equipment with smart test method combinations.

SCHLEICH's standard is high-precision and state-of-the-art measurement technology.

Perfection in series:
Safety and function testers

Perfection in series:
Winding and motor analyzers

Perfection in series

Perfection made to measure:
Custom configured testing devices

Based on the SCHLEICH-MODULAR-CONCEPT, we can offer you an almost infinite number of options for combining and integrating a wide variety of winding, safety and function test methods in one tester.

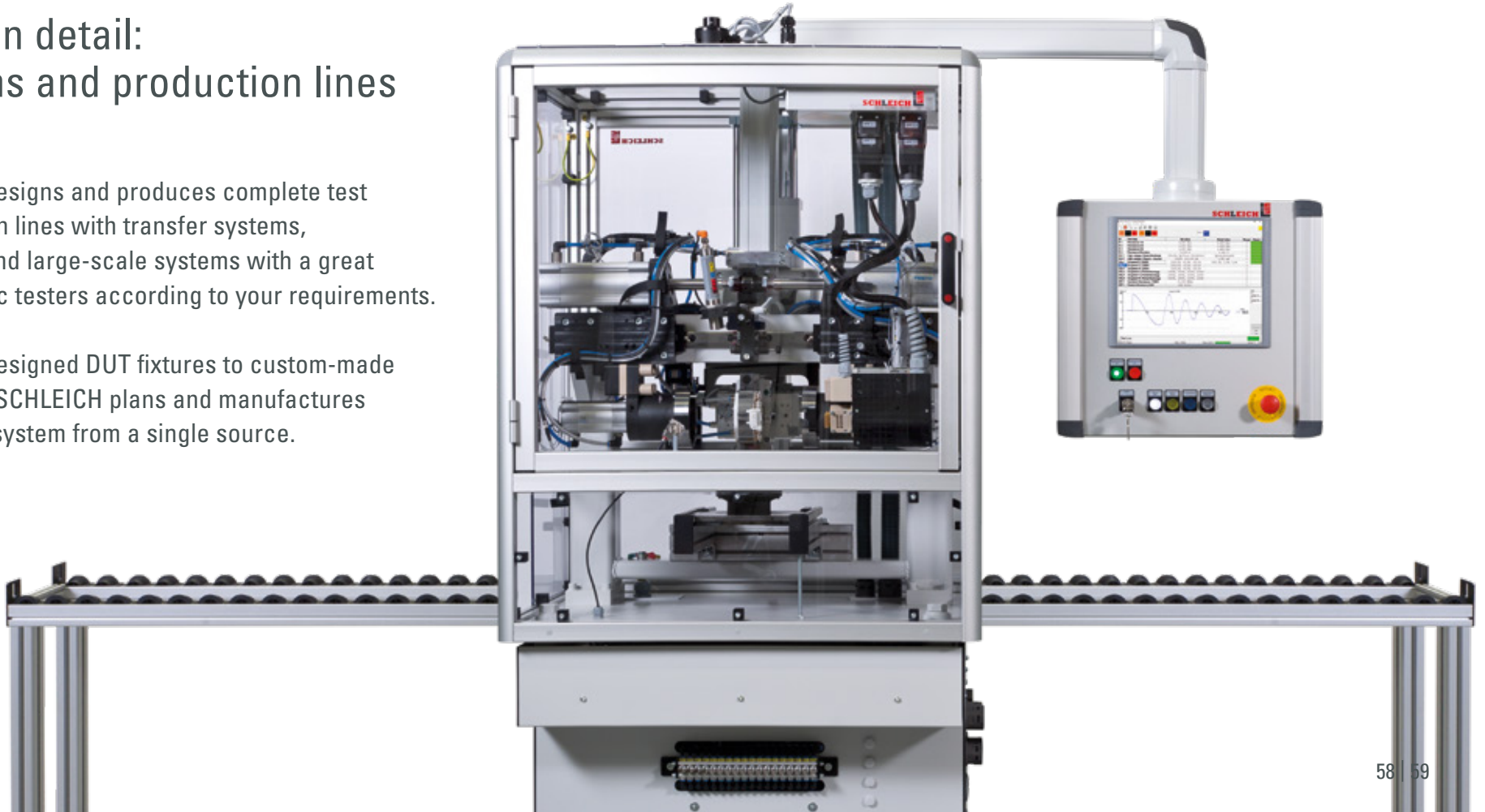
SCHLEICH provides the solution for your individual tasks.

Perfection made to measure

Perfection in detail:
Test systems and production lines

SCHLEICH plans, designs and produces complete test stations, production lines with transfer systems, EOL test stations and large-scale systems with a great variety of automatic testers according to your requirements.

From individually designed DUT fixtures to custom-made contacting units – SCHLEICH plans and manufactures your turn-key test system from a single source.



Perfection in detail

AROUND THE WORLD.

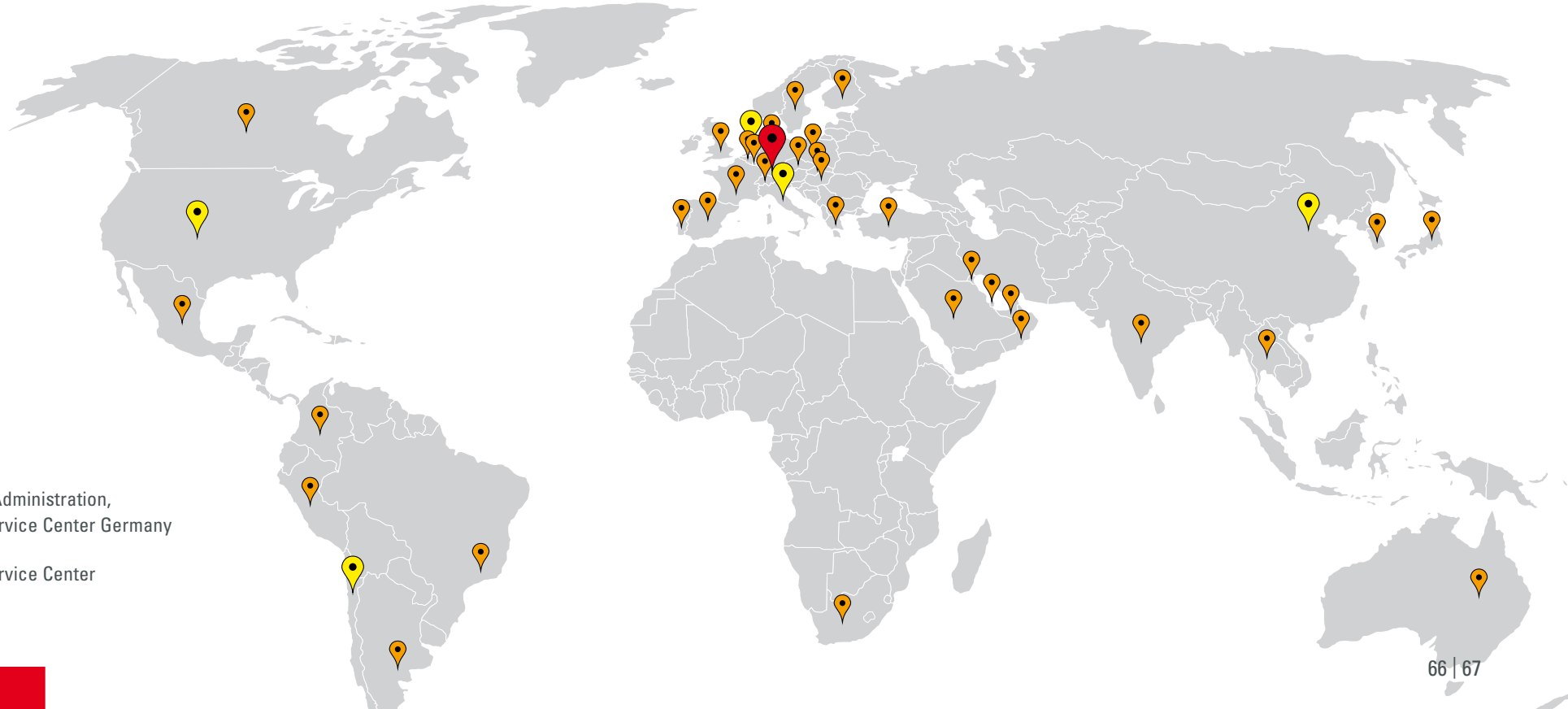
Service on the highest level.

SCHLEICH stands for high-quality technologies meeting the highest demands – and offers expert customer service worldwide! From optimum customer advice during the planning phase to training and after-sales service – our team of specialists will support you during the entire process.

- Installation and commissioning of testers or test systems
- Technical support – by phone, online or on-site
- Calibration service on-site, in-house or online worldwide
- Maintenance for hardware and software
- Repair and spare-parts service

Wherever you are – our Service Centers are there to support you.

Sales and Service Centers



Around the globe, renowned companies trust in our products.

ABB
ABM
AEG-Milwaukee
Airbus Industries
Alcatel
Alstom
AMK
Arcelik
Arcelor-Mittal
Artemide
Ascoll
ATB
ATOP
Audi
Aumann
BAG
Bals
Baumüller
Becker Antriebstechnik
Bernal Tore
BMW
Bombardier
Bosch
Braun
BSH
Caterpillar
Continental
Daimler
Danfoss
Dematic Cranes
Delphi
Deutsche Bahn
DOM
Dometic
Dräxlmeier
ebm Pabst
E.G.O.
Electrolux
ELIN
ELNOR
Embraco
Enercon
Engel
ERCO
Fagerhult
Fagor
Fein
Festool
Franklin Electric
Gardner Denver
Gaggenau
GE General Electric
Gildemeister
Grohe
Grundfos
Hanning
Heidelberger Druck
Heidenhain
HILTI
Hirschmann
Hoffmeister-Leuchten
IFM
Ihne + Tesch
INA
Indramat-Rexroth
inmotion
Jaguar
Kärcher
KaVo
Kessler
Kone Cranes
Kress
KSB
Land Rover
Lapp Kabel
Leica
Lenze Antriebstechnik
LEONI
Leroy-Somer
Liebherr Aerospace
Loher
Lufthansa
Maiko
MAN
Manchester University
Marsilli
MDEXX
Mercedes
Miele
Motory International SRO
Murr Elektronik
Nettelhof
Nidec
Nilfisk
Nord Drivesystems
Novoferm Tore
Oase Pumpen
Ocean
ÖBB
Osram
Papst
Partzsch
Philips
Philips medical
Phoenix Contact
Preh Automation
Porsche
Renault
Rexroth
Rittal
Rotomatika
SBB
Saeco
Salmson
Salzgitter AG
Sauer-Danfoss
Schabmüller
Schorch
Severin
SEW
Siemens
Siemens Wind
Power
Staff
Stöber
TCM
Tecumseh
TEE
Trilux
Thyssen-Krupp
TÜV
UPS
VDE
VDO
VEM
Vestas
Volvo
Vossloh-Schwabe
VW
WAP-ALTO
WDR
Weidmüller
WEG
WILO
Zanussi
Zeiss
Ziehl-Abegg
Zollner
Zumtobel

and more…

Our focus is clear:
Maximum customer satisfaction
by leading in technology and quality.

Management:
Dipl.-Ing. Jan-Philipp Lahrmann
Dipl.-Ing. Martin Lahrmann

SCHLEICH®

Advanced Test Technologies

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TOP 100 Top-Innovator 2022

TEST AT ITS BEST

SCHLEICH.COM

70 YEARS OF INNOVATION 1952-2022