

HIGH



VOLT

High voltage is our passion,
the pioneering spirit our motivation.

SINCE 1904

WELCOME TO THE WORLD OF HIGH VOLTAGE

EDITORIAL

THE FUTURE NEEDS A PAST. HIGHVOLT embodies top quality made in Germany. We have been developing groundbreaking high voltage test and measurement technologies at our location in Dresden since 1904. This has been the foundation of our success for over 110 years. We manufacture technical test equipment, test bays and complex test systems – always tailored exactly to our customers' needs, whether stationary or mobile. That is our way of contributing to a reliable and secure supply of energy around the world.

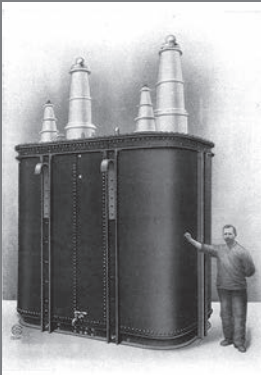


Konrad Dollinger Thomas Steiner
HIGHVOLT Prüftechnik Dresden GmbH



A secure energy supply is impossible without stable networks. Our test and measurement systems ensure the required reliability.

VISIONS BECOME REALITY



1904

FOUNDATION
Koch & Sterzel
in Dresden

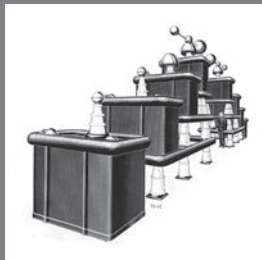
MILESTONES

1923

Koch & Sterzel's outstanding achievements include the development of the

**FIRST 1 MV TEST
TRANSFORMER**

for the high voltage hall of Dresden's Technical College (now Technische Universität Dresden). Other highlights include the development of impulse voltage generators up to 2.5 MV (1929, based on Marx's multiplier circuit) and DC voltage generators up to 1 MV, used in particular for research in nuclear physics.



1959

GOLD MEDAL

at Leipzig's Spring Trade Fair for the high voltage test transformer with 1200 kV and 3 A for testing overhead lines in continuous operation.

1990

TuR produced the

**LARGEST
HIGH VOLTAGE TEST
SYSTEMS IN THE WORLD**

for an outdoor test field near Moscow.



1998

WORLD FIRST

First test of 400 kV extruded cables on site with AC resonant test systems. The innovative test method is now the basis for several IEC standards.

2015

**MEASUREMENT
TECHNOLOGY
WINS DESIGN AWARD**

HiRES family – Measuring transient voltages even in harsh EMC environments.



2017

First modular DC voltage test system 2000 kV for testing HVDC bushings.

2018

XXL REACTORS

Most powerful AC resonant test system with a modular design for testing long and super-long AC and DC land and subsea cables.



THE FUTURE NEEDS A PAST. Our innovations are built on a solid foundation. Over 110 years of experience have made HIGHVOLT one of the leading suppliers of high voltage test and measurement technologies worldwide. The foundation stone for this successful development was laid as

far back as 1904: When electrical engineering company Koch & Sterzel was founded in Dresden, it quickly became the leading German manufacturer of transformers, instrument transformers and high voltage test and measurement technology. After the Second World War, it became Transformatoren-

und Röntgenwerk (Transformer and X-Ray Plant), which gained an excellent reputation far beyond Germany's borders under its abbreviation TuR. In 1991, during the German reunification period, Siemens AG took over the company. Four years later, the high voltage test system business unit was

spun off into an autonomous company. That marked the birth of HIGHVOLT Prüftechnik Dresden GmbH, which has been a member of the Reinhausen-Group since 2002.

WE DEVELOP ADVANCED TECHNOLOGY MADE IN GERMANY

WHO WE ARE

WE DRIVE INNOVATION. Our workforce is an interdisciplinary team of experienced professionals and specialists from the fields of high voltage engineering, power electronics, measurement technology and software. With their combined expertise and under stringent quality and safety criteria, we develop intelligent test and measurement equipment for all electric power transmission components. This includes, for example, cables, transformers and switchgears for transmission and distribution networks.

Good is not good enough for us. Our goal is to provide our customers with the best technical solution. To this end, we work closely with universities, colleges and research institutes and are an active member of national and international committees like VDE, IEC, IEEE, CIGRE and CIRED.



MOBILE TEST SYSTEMS

With our mobile test systems, various tests can be performed on test objects directly on site.



STATIONARY TEST SYSTEMS

Our stationary test systems offer application-specific solutions for factory and outdoor testing.

We identify trends and drive innovations forward. We develop advanced technologies with interest and ambition – for outstanding product reliability of our customers.





WE ENSURE SAFETY – WORLDWIDE

WHAT WE DO

COMPLEX SYSTEMS, EASY TO USE. As a full-line provider, we deliver everything from a single source. We manufacture high voltage test systems and equip entire test bays. With our comprehensive knowledge of all aspects of high voltage test and measurement technologies, we always find the best technical solution for every customer project.

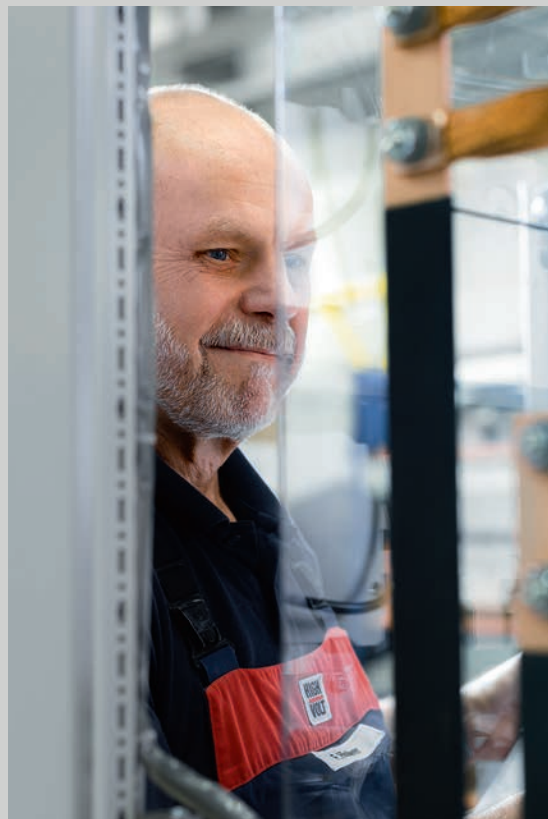
High voltage test processes are extremely complex and require special accuracy. Test and measurement technologies absolutely must be operated professionally to ensure the quality of the test. With our unique HICADEMY range of training courses we offer our customers a way to enhance their knowledge in theory and practice. Together with our specialists, the participants train on real test systems and test objects, and exchange their experience in a network of experts.

Nearby, worldwide:
We have a network of sales and service partners around the world. That means we can be there quickly when you need us.



HICADEMY TRAINING COURSES

Our customers can choose from a wide range of training courses and benefit from our expertise. We will be happy to tailor training courses exactly to our customers' needs.



We practice the pioneering spirit of our founders. We share their fascination for excellent engineering and innovation. Together, we work day after day to find the best solution, to impress our customers and make their working lives as easy as possible.



WORKING TOGETHER AS PARTNERS

We share our knowledge and experience. That creates a strong foundation for a trust-based partnership in our team, with our customers and partners.



EXCELLENT SOLUTIONS

With German engineering and experience from over 110 years, we create premium products of unique quality and offer comprehensive services.



AMBITIOUS PROSPECTS

We know the market and our customers. We develop advanced technology in a solution-driven and creative approach to give our customers a key competitive advantage.





IT TAKES SPECIAL PEOPLE TO CREATE SPECIAL SOLUTIONS

HIGHVOLT AS AN EMPLOYER

WE ARE A LEADING INTERNATIONAL TECHNOLOGY COMPANY with an experienced team that tackles new challenges every day. From providing advanced technology for a secure power supply to finding answers to new technical challenges – working at HIGHVOLT means developing solutions and setting standards for the future.

As an outstanding employer, we offer a unique combination of an innovative working environment and a familiar atmosphere. We believe in teamwork, dialogue and networking. We promote the individual development of our employees and facilitate family-friendly working hours. Well-adjusted work-life balance is important to us, as it forms the basis for creativity and passion, and thus for our shared success.

Every employee counts at HIGHVOLT – with their ideas, passions and successes. We believe we can achieve more by sharing our knowledge and experience. That drives us, our customers and the high voltage world forward.

INNOVATION AND TRADITION FROM DRESDEN

LOCATION

HIGHTECH-INCUBATOR, Smart city and electro-mobility model city: That's Saxony's capital Dresden – the home of HIGHVOLT Prüftechnik Dresden GmbH. The proverbial Saxon inventiveness is in the air here. Many groundbreaking technical developments originate from Saxony, like European porcelain, the first 35 mm camera or 5G mobile communications technology. Saxony has an excellent science and research landscape unrivalled throughout Germany. This is where the advanced technology for tomorrow's world is being created. Inspired by this innovative environment, we are developing pioneering technologies for high voltage test and measurement technology.



THE HIGHVOLT LANDMARK
The high voltage hall built between 1951 and 1953 is the highly visible and recognisable home of HIGHVOLT in Dresden. It is one of Saxony's most beautiful technical monuments. With a footprint of 60 x 47 metres and a height of 33 metres, it provides space for several test bays.

Innovation needs strong roots.
Saxony has a long-standing
tradition of engineering.

HIGHVOLT's high voltage hall
enables tests with
extremely high voltages.

UNIQUE



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PRODUCTS

- DC voltage, AC voltage and impulse testing systems in various technical designs
- Measuring systems
- Services (consultancy, upgrades, maintenance)
- HICADEMY training and education courses

CUSTOMERS

- Manufacturers of equipment for medium, high and ultra-high voltage
- Power utilities and network operators
- Cable manufacturers
- Transformer manufacturers
- Switchgear manufacturers
- Research institutes and universities
- Test service providers

ADVANTAGES

- Quality made in Germany
- Turnkey projects: Everything from a single source
- Standardized and customized solutions
- Test and measuring systems for factory and on-site testing