



Expertise areas

of ELABO solutions



Training and schools



Training systems that inspire

We offer a wide range of products and services for teaching and training in industry. Customers, universities and technical colleges as well as many other institutions already rely on our individually customized solutions.

Our training systems are perfectly designed for all professions in electrical engineering and related fields and offer everything needed to realize modern and up-to-date teaching.

Advanced training equipment for up-to-date teaching

With progress always in mind, we are constantly further developing our systems.

Perfect matching

Hardware and software, teaching materials and services are perfectly matched to training in electronics and electrical engineering.

Individual adaptability due to modular systems

Customized solutions for each individual customer

Practice-oriented transfer of knowledge

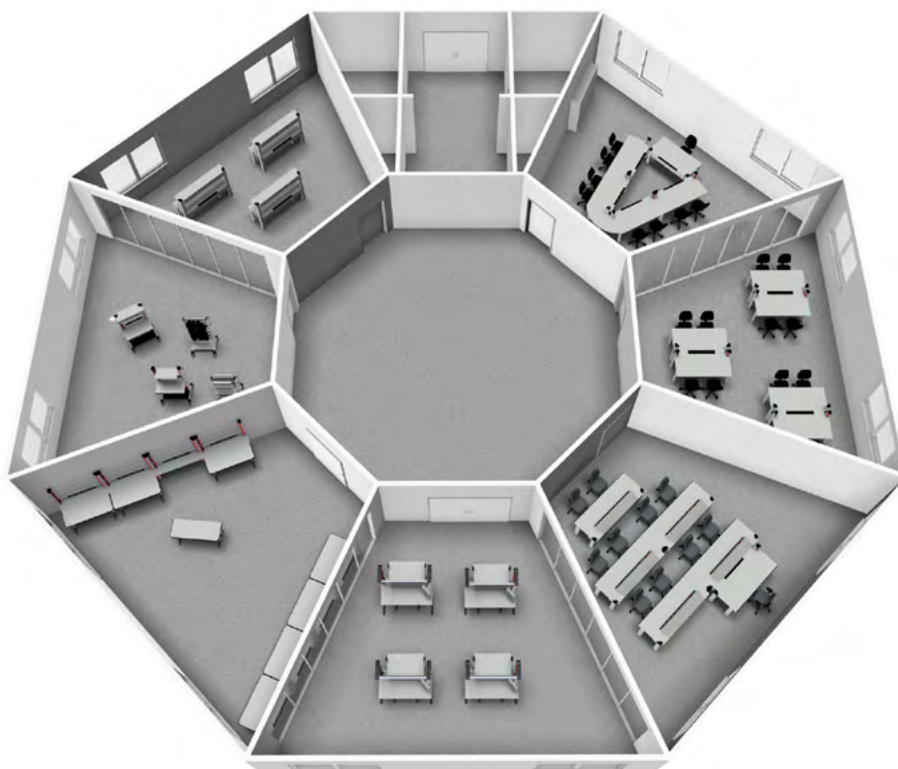
Easy introduction to the topics of Industry 4.0 with our learning concept ELABO Knowledge Transfer consisting of software, teachware and hardware.

Well designed room equipment in combination with Elution® – the software suite for your education – guarantee highest precision, all from one source! Made by ELABO



Your benefits

- High net apprenticeship time and great learning success
- Health is protected and risks are minimized
- Profitability, efficiency and security for the future
- Perfect working conditions lead to an optimal learning atmosphere and high motivation
- Convincingly competent..
Optimal conditions for teachers, trainers and professors





Research and development



Innovations for your research

We supply ELABO packages with hardware and software tailored to our customers needs. Our systems fulfill all required standards and offer a maximum of space economy.

From stand-alone workstations to connected systems. We offer exactly what our customers need, based on many years of experience.

These include laboratory desks with integrated electronic modules for power supply and measurement. Mobile solutions and of course ELABO cabinet systems that guarantee order with system and quality.

We meet the highest standards when it comes to workplace ergonomics. This includes intelligent LED workplace lighting that meets the latest occupational health requirements.

Well designed room equipment in combination with Elution® – The software suite for your R&D department – guarantee highest precision, all from one source! Made by ELABO.



Your benefits

- Flexible and safe workplace solutions
- Ergonomically height-adjustable workstations
- Perfectly equipped workstations
- Profitability, efficiency and security for the future
- Interdepartmental data management with Elution®





Production



Flexible assembly and manufacturing solutions

Our universal systems are suitable for manual and semi-manual tasks in production and assembly. They enable the creation of a stand-alone workstation as well as the design of complex production and assembly lines, including the connection to material supply.

The ELABO assembly system is an evolutionary system. It changes with the requirements and tasks you place on the system. If you want to implement varying work content and processes in a unit at short intervals or if the people working at one location change frequently, for example due to shift work.

Our solutions keep up with the changes at a speed that literally challenges comparisons with other solutions. Even if you fundamentally redefine the purpose and requirements, we excel through uncomplicated adaptability. ELABO assembly systems are flexible and grow like an intelligent organism.

Elution® – The software suite for your shop floor.

Increasing number of variants, smaller series or the lack of skilled workers. The demand for cost-efficient and profitable production is constantly increasing.

With the factory software Elution® you ensure that your employees keep the overview even in stressful situations and can concentrate on their core tasks. Secondary tasks, such as quality inspection, are automated and processes are documented.

The right package is available for every application.



Your benefits

- Increase in efficiency and productivity
- Cost reduction
- Highest demands on ergonomics and quality
- Time saving due to short set-up times and flexible systems
- 100% quality without defects right from the start





Electrical laboratory



Easy Repair

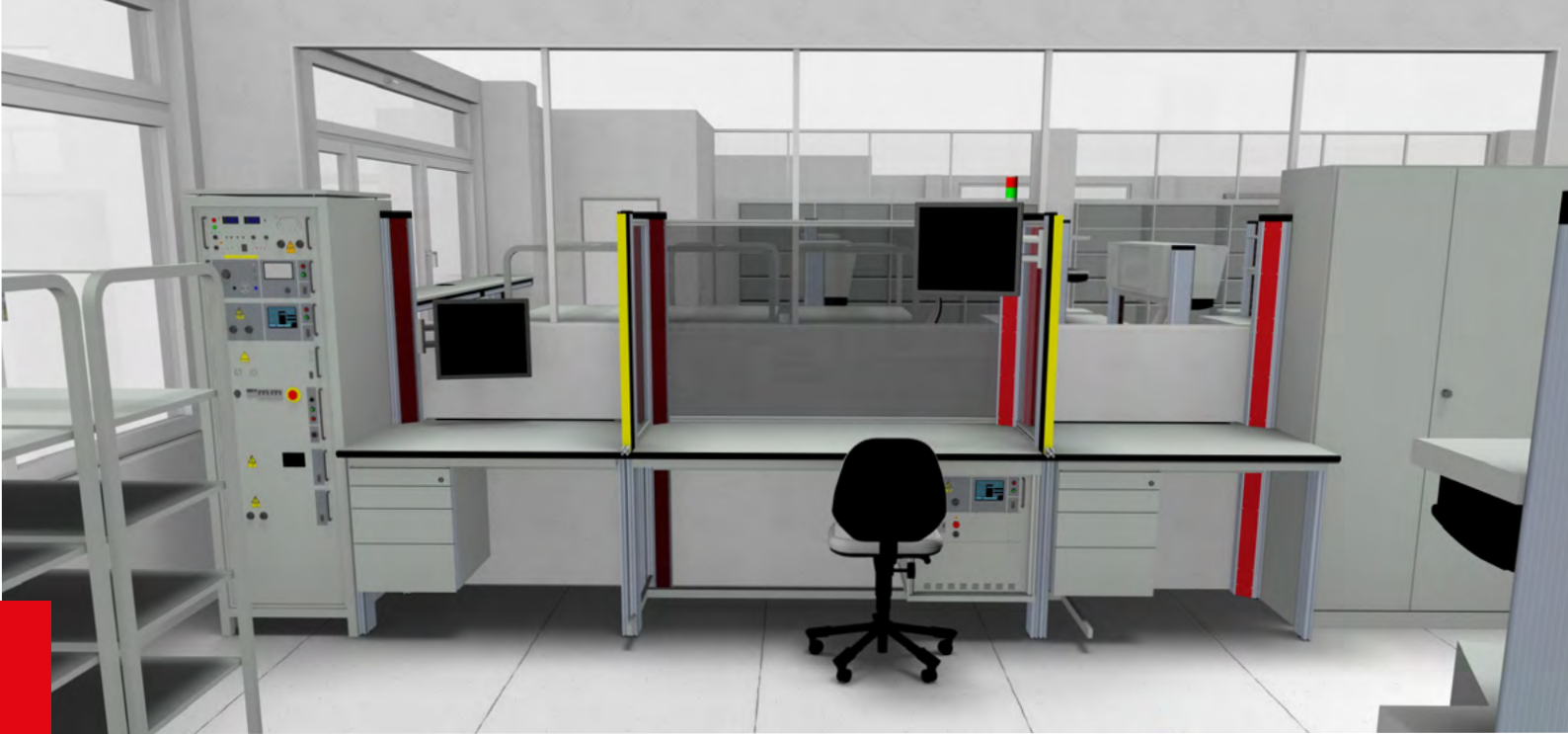
The electrical laboratory is one of ELABO's core areas of expertise. The laboratory solutions are used in industry – in the areas of quality assurance, maintenance and service facilities.

We supply ELABO packages with hardware and software specially tailored to the customer's needs. These include laboratory desks with integrated electronic modules for power supply and measurement. Mobile solutions and of course ELABO cabinet systems that guarantee order with system and quality. We meet the highest standards when it comes to workplace ergonomics. This includes intelligent LED workplace lighting that meets the latest occupational health requirements. Well designed room equipment in combination with the factory software Elution® guarantee highest precision, all from one source! Made by ELABO.

Our service workstations offer extensive assistance with device repair and support the employee according to requirements.

Elution® – The software suite for your service workplaces. Increasing number of variants, smaller series or the lack of skilled workers. The demand for cost-efficient and profitable repair is constantly increasing. With the factory software Elution® you ensure that your employees keep the overview even in stressful situations and can concentrate on their core tasks. Secondary tasks, such as quality inspection, are automated and processes are documented. The right package is available for every application. See the most common errors at a glance with our Elution® software and benefit from step-by-step instructions for common errors.

We design the service workstations individually and according to the specific requirements, adapted to the latest technical standards.



Your benefits

- Increased efficiency
- Cost reduction
- Quality assurance due to automated service
- Time saving
- Qualifying employees





Measuring and testing systems



Safety and functional testing for quality assurance

ELABO is one of the leading international developers and manufacturers of systems for testing electrical devices, electrotechnical parts and components. Our measuring and testing devices are used in electrical laboratories as well as in series production.

Furthermore, we offer measuring and testing systems as stand-alone solutions or as complex test networks for various industries and products. Our solutions are perfectly adapted to the needs of our customers. In addition, ELABO offers a extensive lifecycle service.

You will find the following product lines in the area of test systems

- Measuring and testing devices
- Measuring and testing systems
- Approbation systems
- Programming systems
- Software
- Customer Care and Engineering



Your benefits

- Nearly unlimited application possibilities
- The right solutions for typical measuring tasks
- Overall packages for quality assurance and functional testing systems
- Handmade in Germany
- Error analysis and traceability





Software



ELUTION®

Increasing number of variants, smaller series or the lack of skilled workers.

The requirements for cost-efficient and profitable production are constantly increasing.

The factory software Elution® assists small and medium-sized as well as large companies. With Elution® you ensure that your employees keep the overview even in stressful situations and can concentrate on their core tasks.

With Elution® you digitize your processes for

- Control of your workplaces and work processes (workplace and work step handling),
- Integration of measuring, testing and other technical equipment,
- Automation of work and testing processes and
- Quality assurance by avoiding and detecting errors.

With the integrated options for variant management, you can quickly and easily create plans for different products together. In addition to images and videos, the plan can also be used to support your employees in the process optimally with existing drawings or other documents. The integration of a wide range of devices for additional tasks such as measuring, screwdriving and monitoring allows us to ensure that no product leaves the production line with defects. Failure consequential costs are avoided, as errors do not even occur in the first place. The intuitive work plan interface ensures that employees are quickly able to find their way around. In this way, new employees can also be trained „on-the-job“ or a product launch can be supported. The documentation and logging of processes is done on the side- without any additional steps.



Your benefits

- Reduction of defective parts
- Minimization of rework and error costs
- Automated documentation process
- Efficient ramp-up of new products
- Fast training of new employees



The milestones of ELABO.

1980

1980

ELABO launches their first in-house developed safety testing devices.

1982

ELABO brings to market one of the first microcomputerbased safety testing systems.

1985

1988

With the new InForm program line, ELABO kicks off a revolution in the equipment of technical workstations. Electrical supplies, measurement, and testing devices are now located at eye level – with patented connection technology.

1990

1995

1996

ELABO introduces completely networked testing lines for quality assurance in electrical devices.

2000

2000

For the first time, ELABO uses robot and image processing technology in test systems.

Industrial companies ABB ABM Greiffenberger Acer ACI Advanced Energy AEG Alifing Alcatel Airbus Alcan Allied Vision Alstom Amica Amphenol Arcelik ASIC ASS Atlas Copco Atmel Audi Aventis B Braun Bachmann Bahn Baker Hughes Ballard BASF Bauknecht Baumüller Bayer Bender Berthold Berger Bertrandt BERU Bizerba Blaupunkt BMT BMW Boehringer BorgWarner Bosch Bosch Siemens Hausgeräte Braun Brauerei Becks Brose Bruker Bühler Bürkert BYS Canon Captron CareFusion Caterpillar CEAG Cegelec Cherry Clarion Clondrag Continental Teves Convotherm Cooper Daimler Dahle Danfoss Degussa DEKRA Deutsche Bahn Deutsche Post DSK Deutsche Steinkohle DHL Diehl DLR Dräger Dr. Suwelack DSPECIALISTS Durag Dürr EADS E.G.O. ebm-papst Edag e.d.s Eisenmann Electrolox Emerson Endress + Hauser E.ON EnBW Enercon Epos Ersol E-TA Eulerbach ETO-Magnetic Eurocopter FAG Kugelfischer Fanuc Federal-Mogul Fein Feller Fiat Iveco Ford Franke Freudenberg Fronius Gardena Gasag Gedore General Electric Gettag Hansaton Glen Dimplex Göpel Grammer Hahn Harman Becker Harting HBM Hottinger Baldwin Heidenhain Heinzmann Hekatron Helios Hella Hemstedt Hensoldt hps Hilti Hirschmann Hitachi Heraeus Hüner Hüttenwerke Knapp-Mannesmann Hüttinger IBM Igarashi Imperial Intech INA-Schaeffler Infineon Innosmet Inovan Ismet Ivoclar JenCam Jenoptik John Deere Julabo JUMO Johnson Kabel Deutschland KACO Kärcher Kathrein Kemmler & Riehle Knick Knipex Knorr-Bremse Komax Kontron Krauss-Maffei Kronen KUKA Kummer Lear Automotive Leoni Leica Lenzhe Liebherr Linde LG Loeve Opta LPKF Lumberg Lufthansa LuK Magnet Schultz Mahr MAN Mann + Hummel Marconi Marquardt Mazet MD electronic Medioni Mellitta Mennekes Mettler-Toledo Metz Merten MF Instruments Micronas Miele Minimax Mitsubishi Molex MTU Aero Engines Neff Nokia Norgren NXP Opel Olympus OMV Ostram Otis Panasonic PAS Paiker Petra Pepperl + Fuchs Philips Phoenix Pierburg PGT PMB-Elektronik Porsche Prettl Procter & Gamble Putzmeister Regiolux Rehau Rheinmetall Rhode & Schwarz Riedel Rieter Roche Rodri Rohwedder Röhm Saar Ferngas Sagem Samson Sartorius Schaefer Schaffner Schenck Schering Schleuniger Schneider Schott Schroff Schubert Sennheiser Severin SEW-Eurodrive Sick Siemens Sitec Shell SIM Singulus Sirona Sitec Aerospace SKF SMA Solibro Somfy Stahl Starke STEAG Steiff Stiebel Eltron Stihl Südzucker Suspa Tamino Tchibo Teamtechnik Technisat Tekla Teldix Tenovis Texas Instruments Thermokon ThyssenKrupp Ticona Tralec Trilux TRW Tyco UPS Vacuumsmelze Vaillant Valeo Varta Vattenfall Videor Viessmann Visatec Vishay Visteon Vogt Electronic Volvo Vossloh Voith Volkswagen WAGO Waldner Waldmann Weishaupt Wiedemann Wieland WIKAWitte Wittenstein Wolf WMF Wüekro Würth Yokogawa Zander Zeiss ZF Ziehl-Abegg Zollner **Authorities, institutes, facilities and service providers** Riot Police Thüringen Federal Institute for Materials Research and Testing Federal Office for Information Security Federal Office for the Protection of the Constitution Federal Office of Defense Technology Federal Ministry of Defence Federal Ministry of Transport Federal Criminal Police Office German Federal Network Agency Federal Police Federal Agency for Telecommunications Statistics Deutsche Bahn German Central Bank German Meteorological Service German Aerospace Center Fire departments amongst others in Nürnberg, Hamburg, Düsseldorf, Dortmund Airports amongst others in Berlin, Hannover, München, Nürnberg and Frankfurt-Hahn DRK Rettungsdienst Research centres amongst others in Jülich and Karlsruhe Fraunhofer-Institutes amongst others in Berlin, Bremen, Chemnitz, Darmstadt, Dresden, Erlangen, Freiburg, Pfinztal, Saarbrücken, Stuttgart Energy supplier amongst others Enso Dresden, Ewe, NBB, Enro, enviaM Society for Heavy Ion Research Society for the Promotion of Applied Computer Science Hospitals/Clinics amongst others in Bad Salzungen, Bamberg, Coburg, Cottbus, Deggendorf, Dresden, Frankfurt/Oder, Lahr, Leipzig, Ludwigsfelde, München, Quedlinburg, Rathenow, Regensburg, Suhl and Wiesbaden State Offices of Criminal Investigation amongst others in Düsseldorf, Hamburg, Mainz, Stuttgart State Police Headquarters amongst others in Chemnitz, Freiburg, Stuttgart, München Max-Planck-Institutes amongst others in Frankfurt, Garching, Gölz, Heidelberg and Jena Police headquarters amongst others in Augsburg, Bayreuth, Berlin, Frankfurt, Leipzig, München and Nürnberg Youth Correctional Facility Landshtut Federal Office for the Protection of the Constitution Radio stations amongst others Bayerischer Rundfunk, Deutsche Welle and Westdeutscher Rundfunk State building authorities amongst others in Ansbach and Nürnberg Public utilities amongst others in Augsburg, Gießen, Heppenheim, Hürth, Kiel, Lindau, Magdeburg, Schwäbisch Gmünd and Würzburg TÜV Product Service Transfer centre Microelectronics University Hospitals amongst others in Dresden, Freiburg, Gießen, Heidelberg, Tübingen and Würzburg VDE Prüf- und Zertifizierungsinstitut Water and Shipping Authorities amongst others in Niederfinow, Nürnberg and Wilhelmshaven Public transport companies amongst others in Berlin, Esslingen, Hannover, Mainz and Magdeburg **Educational institutions** Universities of Cooperative Education amongst others in Eisenach, Gera and Mannheim Vocational training institutes amongst others in Berlin, Mühlentack and Schönmberg Vocational training institutions amongst others in Hamburg and Tonna Professional associations amongst others in Köln and Mannheim Technical/Vocational schools amongst others in Aalen, Aschau, Bad Kreuznach, Bayreuth, Celle, Deggendorf, Detmold, Eckernförde, Emmendingen, Esslingen, Eutin, Frankfurt, Freising, Göppingen, Hamburg, Heidenheim, Illmenau, Kempfen, Köln, Leonberg, Lübbenau, Lübeck, Oberursel, Osterode, München, Ravensburg, Roth, Schwäbisch Gmünd, Traunstein, Wertheim and Wuppertal Technical colleges amongst others in Deggendorf and Erlangen Chambers of Crafts amongst others in Aachen, Kaiserslautern, Koblenz, Lübeck, Regensburg and Schwerin Heinz-Nixdorf Berufskolleg der Stadt Essen Universities amongst others in Amberg/Weiden, Ansbach, Berlin, Brandenburg, Biberach, Elmshorn, Emden, Esslingen, Fensburg, Heide, Hellbronn, Ingolstadt, Karlsruhe, Kiel, Köln, Künzelsau, Landshtut, Lausitz, Lübeck, Mannheim, Mittweida, München, Nordhausen, Regensburg, Stralsund, Ulm, Wiesbaden, Wolfenbüttel and Würzburg Technical colleges amongst others in Aachen, Leipzig, Saarbrücken and Wismar Technical universities amongst others in Berlin, Chemnitz, Clausthal-Zellerfeld, Darmstadt, Dresden, Illmenau and München Universities amongst others in Augsburg, Bremen, Dortmund, Erlangen, Freiburg, Frankfurt, Gießen, Göttingen, Halle, Hamburg, Heidelberg, Karlsruhe, Kassel, Magdeburg, Mainz, Mannheim, Rostock, Stuttgart, Trier, Tübingen and Zwickau **Worldwide** ABB, Indien Aggreko, Niederlande AKG Acoustics GmbH, Österreich Alcatel, Frankreich Airbus, China Airbus, Dubai Training Center Braunau, Österreich AWECO, Slowakei Vocational Training Institute Deutschlandsberg, Österreich Bombardier Transportation Austria GmbH, Österreich Bosch, Indien Bosch, Ungarn Bosch und Siemens Hausgeräte, China Bosch und Siemens Hausgeräte, Russland Bosch und Siemens Hausgeräte, Spanien Bosch und Siemens Hausgeräte, Türkei Danfoss, Dänemark DAIKIN, Belgien Elbit Systems, Israel Electrolox, Italien ETO Magnetic, Polen Fire Brigade Command Venezia, Italien Vocational School Bozen, Italien INAIL, Centro Protesi, Italien Indra, Spanien Infineon Technologies Austria GmbH, Österreich Secondary Technical School Mistelbach, Österreich KeyMed, Großbritannien MAF, Frankreich Magneti Marelli Powertrain, Italien Niko, Belgien NÖ Landesfeuerwehrkommando, Österreich Austrian Federal Railways Austrian Armed Forces Olympus, Tschechische Republik Philips Innovative Applications, Belgien Robert Bosch AG, Österreich Sagem, Frankreich Schaeffler, China Schaeffler, Rumänien Schaeffler, USA Siemens, China Società delle Autostrade di Venezia e Padova S.p.a., Italien St. Microelectronics S.p.a., Italien Suez, Belgien Tessenderlo Chemie, Belgien Thales, Frankreich

2005

2003
Modular assembly workstation designs for TaMas product line.

2005
ELABO creates a sensation with its fully re-developed C# software bundle, making it possible for the first time to perfectly coordinate object-oriented software modules.

2009
ELABO's HighPerformance device series ushers in a new era of modular devices for safety testing equipment.

2010

2010
Elution® introduces fully integrated testing and electronic measuring equipment into the world of ELABO's software.

2012
ELABO continues to revolutionise workstation systems. Primus One® is a true masterpiece!

2015

2015
ELABO's „Smart Industry“ experience and information management makes ELABO one of the leaders in Industry 4.0.

2014
For the first time, ELABO showcases Smart Factory at the Munich trade fair to later install it at their Crailsheim headquarters.

2018
Introducing new digital services to the market
“AR and VR solutions” as well as digital field service

2016
Revolutionising the market for workplace systems using the CIS concept

2017
ELABO launches the guided tour.
FIM workplace for shop floor solutions is developed.



ELABO GmbH
Roßfelder Straße 56
74564 Crailsheim
Germany
Phone +49 7951 307-0
Fax +49 7951 307-66
info@elabo.de
www.elabo.com