



ELGO
ELECTRONIC

We are ELGO

THE BASIS OF ALL AUTOMATED TECHNOLOGY
RELIES ON MEANINGFUL **MEASUREMENT TECHNOLOGY.**

Helmut Grimm (CEO)



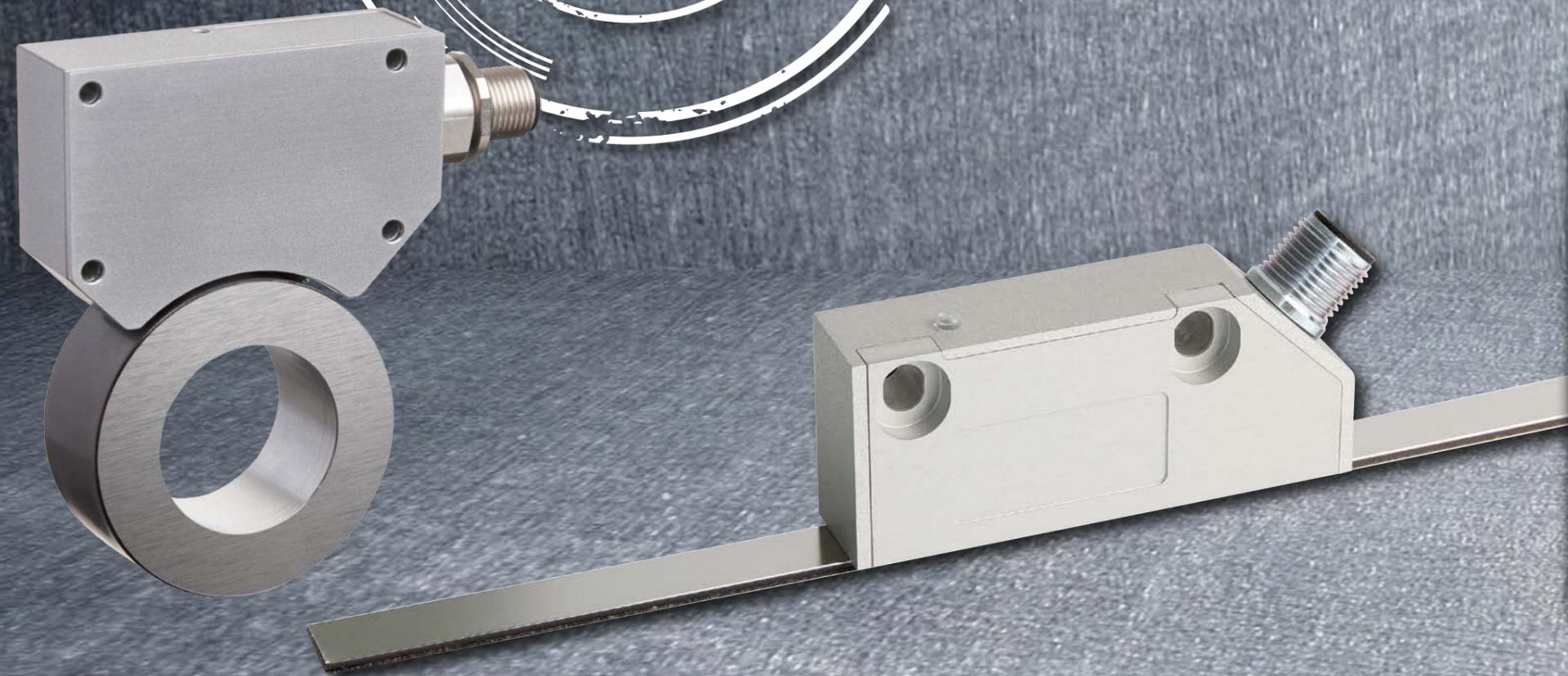
From left to right Moritz, Helmut and Felix Grimm

ELGO – the specialist for positioning solutions

ELGO develops and manufactures sensors, measuring and positioning systems for various industries and applications. We are one of the world's leading companies in the field of magnetic-based positioning technology. An export share of 80 percent, wholly owned subsidiaries in China, USA, Japan and Europe as well as

agencies in more than 30 countries contribute to the strong international presence of ELGO.

ELGO was founded by Helmut Grimm in 1978, who today is supported in management by his sons.



The ELGO Group home base Lake Constance



**ELGO ELECTRONIC
GMBH & CO. KG**
RIELASINGEN | GERMANY

sensors for automation technology, drives,
mobile automation, position indicators and
controls for mechanical engineering

115 EMPLOYEES

DE

CH



ELGO BATSCALE AG
BALZERS | LIECHTENSTEIN

magnetic tape and ring technology,
sensors for the lift industry

52 EMPLOYEES

A



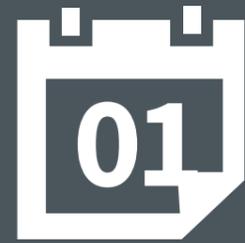
EPH AG
DIESSENHOFEN | SWITZERLAND

production expert as well as services in the area of
electronic construction groups, assembly, packaging
and assembly for a broad sales market

81 EMPLOYEES



ELGO in figures



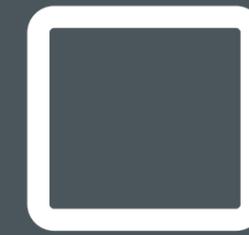
1978 foundation



250 employees worldwide



3 production sites



7,400
sqm production area



43 sales offices and agencies worldwide



175
apprentices since 1987



3,500,000
meter magnetic tape per year



160,000 assemblies per year



Pioneer spirit

ELGO stands for sensors and positioning solutions based on magnetic tape technology. We have continually specialized in this field and today we are one of the leading suppliers.

With pioneer spirit and innovative ideas, the engineers and developers at ELGO have repeatedly succeeded in setting milestones and persuading customers with groundbreaking solutions over four decades of company history.

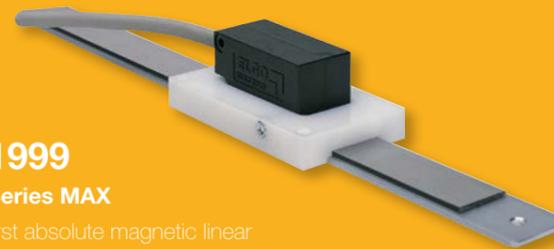
Today, as it was 40 years ago, the requirements of our customers are our top priority: we develop and manufacture solutions that are tailored to specific applications and the associated requirements.

40 years ELGO Milestones

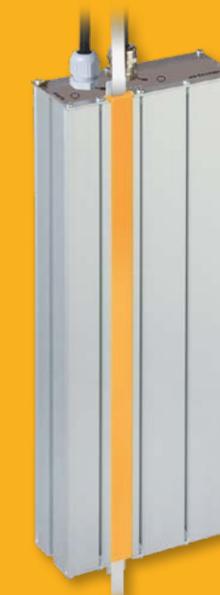
▶ **1985**
world first
Series 85P
compact 1-axis
controller



▶ **1999**
Series MAX
first absolute magnetic linear
measuring system on 3-track basis



▶ **2010**
LIMAX SAFE
SIL3 compliant.
Replaces safety-relevant
mechanical systems



▶ **1981**
world first
Series 42
electronic counter
with LED display



▶ **1992**
Series MIX
first magnetic length measuring
system developed by ELGO



▶ **2003**
LIMAX
first magnetic position
detection system for
passenger lifts



▶ **Today**
EMAX-RO / EMAX-HI



Our product portfolio

Distance, position, angle – wherever exact detection of positions is required, our magnetic tape positioning systems are used. Precise, robust and reliable. This also applies to the measurement of revolutions, speed and acceleration.

The portfolio is supplemented by battery and mains-operated position indicators and compact positioning controls for one or more axes.



LENGTH MEASURING SYSTEMS



ANGLE AND SPEED MEASURING SYSTEMS



INCLINATION SENSORS



SHAFT INFORMATION SYSTEMS



MEASURING AND INDICATION SYSTEMS



POSITIONING CONTROLS



automation



mechanical engineering



intralogistics



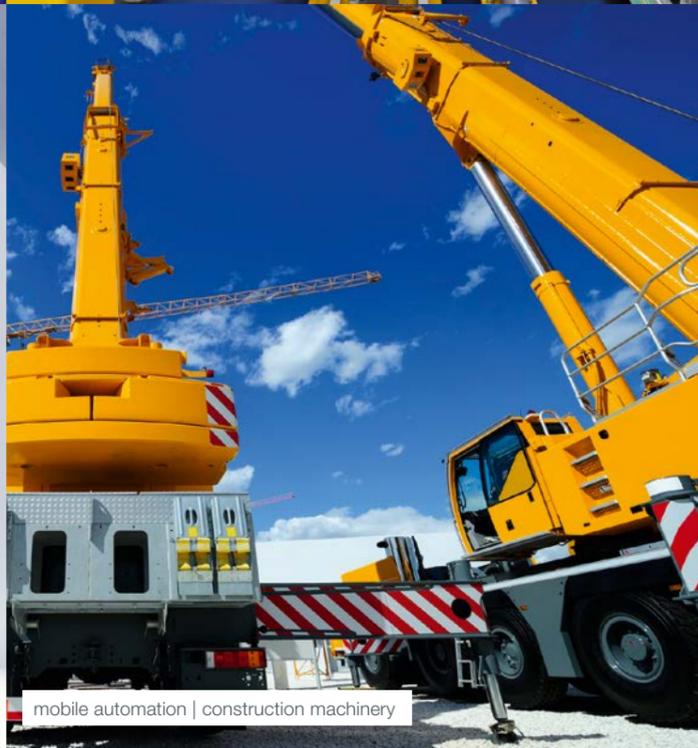
mobile automation | agricultural machinery



renewable energies



lift industry



mobile automation | construction machinery



medical technology

More efficient. More precise. More resource-saving.

Our mission is to create value add to the customer by providing them with intelligent positioning solutions. Exact positioning makes workflows more efficient, precise and resource-saving.

Sensor competence and cross-sector know-how are reflected in numerous solutions tailored to the respective application – in mechanical and plant engineering, in factory and process automation, in mobile automation, in medical technology, in the field of renewable energies and in lift technology.

Positioning technology for mechanical engineering

ELGO has grown with measuring systems, position indicators and control components for mechanical engineering. Especially the manufacturers of sheet metal and woodworking machines have long appreciated our positioning technology.

In the early years of our company it was electric counters with LED display and compact positioning controls with which ELGO became known on the markets not only in Germany but also internationally. In the 90's it was the new magnetic tape measuring systems from ELGO

that replaced the traditional encoders for displacement measurement in many applications. Extremely robust and reliable in operation even under harsh environmental conditions, they opened up new possibilities for measuring and positioning.

Today, we offer a wide range of positioning technology for modern mechanical engineering: compact positioning control systems for one or more axes, electronic displays and robust magnetic measuring technology.



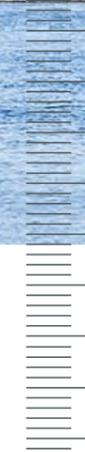
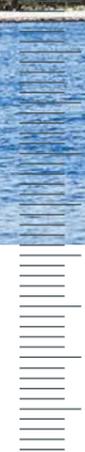
LIMAX – leading the way in shaft information

Over the past twenty years, ELGO has become a global supplier of positioning systems for elevators.

In 2003 the first magnetic tape based shaft information system was launched, which revolutionized elevator positioning and has become the industry standard today.

ELGO Batscale AG in Liechtenstein operates within the ELGO Group as a competence centre for the further development of the LIMAX technology. Thanks to continuous research and development and consistent compliance with elevator-related standards, it has succeeded in establishing a market-leading position. So that elevators all over the world can reach the desired floor reliably, quickly and safely.





Here is **where we are**

So that the potential of wind and sun can be fully harnessed

Non-contact, wear-free sensor solutions ensure optimum positioning in wind power and solar plants. Thus, the potential of sun and wind can be optimally harnessed in all weather conditions. In modern solar power plants our sensors guarantee the precise and reliable tracking of

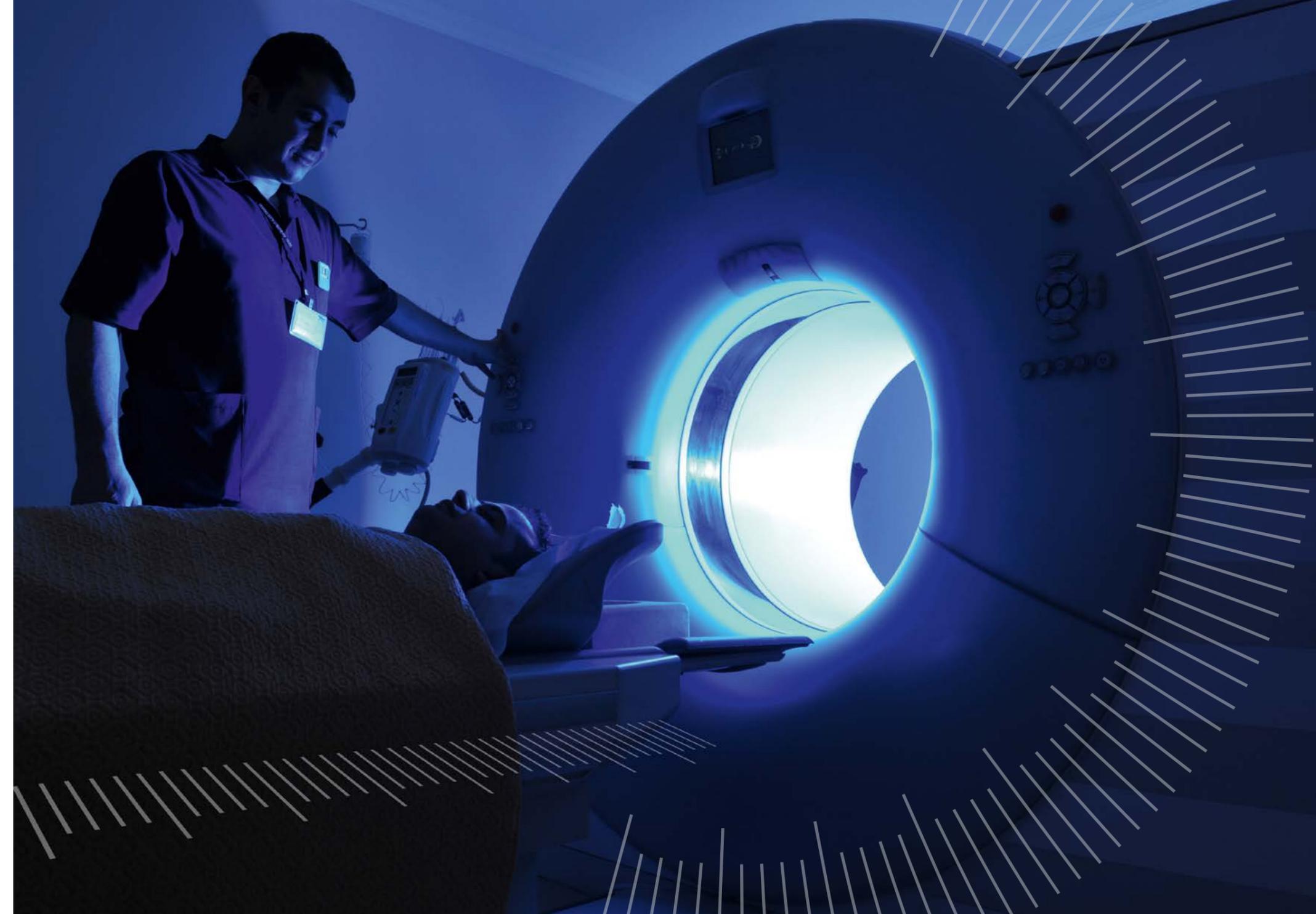
solar modules or mirror systems, in wind power plants they ensure the optimal positioning of the nacelle and rotor blades and thus contribute to maximizing the efficiency of the energy conversion and increasing the economic efficiency of the plants.

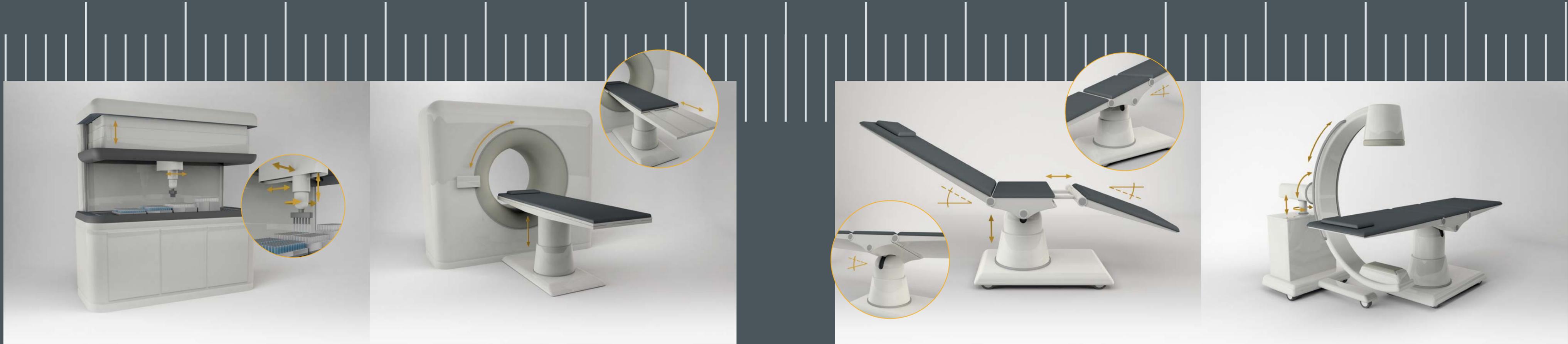


For measurably better patient care

Sensors and positioning systems from ELGO are used in modern operating and treatment tables, in medical imaging or wherever the exact positioning of the patient is essential for a good result.

Medical, analytical and laboratory equipment is subject to particularly high demands: The focus is on high accuracy, insensitivity to external interference and a high level of safety. In most cases, device manufacturers require additional specific adaptations. ELGO offers the appropriate portfolio of positioning technology for this purpose.





Exact position in real time – motor feedback systems

For applications in the field of drive technology, our positioning systems provide real-time solutions that offer high resolution and system accuracy as motor feedback systems. Whether linear or rotary, ELGO has a large number of sensors that meet the requirements of modern drives and provide

them with the exact position reliably and durably. We also offer solutions based on the magnetic technology for highly dynamic drives, which reliably perform their service even under harsh environmental conditions.



Very robust and precise in operation

Increasingly larger and more powerful mobile machines as well as the trend towards self-propelled systems require permanent interaction between actuators and sensors for path, position, tilt and stability monitoring in the working area of the vehicle and its attachments. Whether for recording the direction of rotation and

position of the driver's cab, for adjusting the required angles on tools or for precisely determining the boom position – in order to optimize the efficiency, safety and comfort of the operator, we offer a broad portfolio of standard-compliant sensors based on magnetic tape technology.





Well positioned for the future

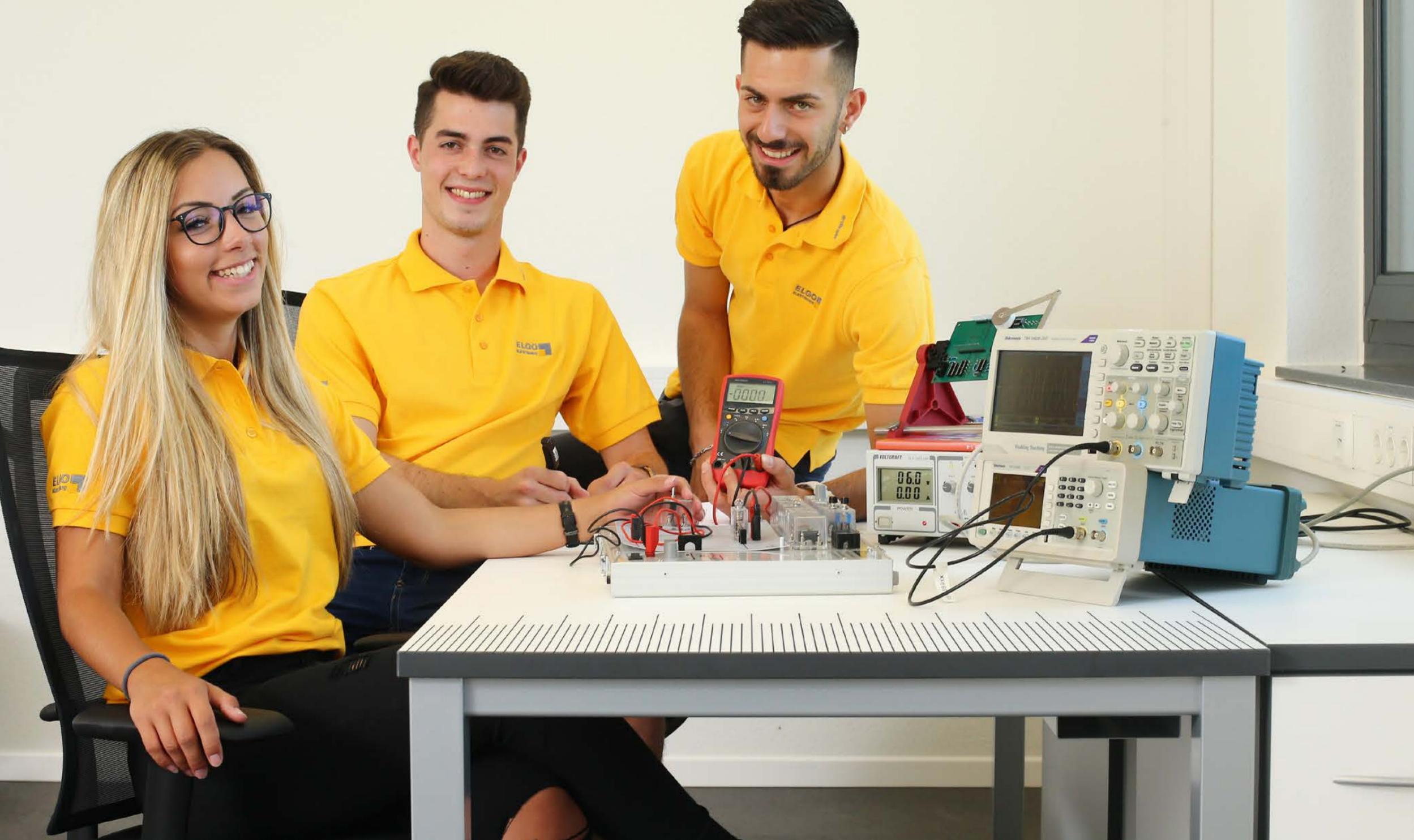
At our locations in Rielasingen on Lake Constance, in Balzers in the Principality of Liechtenstein and in Diessenhofen in Switzerland, we manufacture 160,000 assemblies and 3,500,000 meters of magnetic tape per year encompassing a production area of 7,400 square meters with state-of-the-art machinery.

The heart of the production plant in Rielasingen is the newly designed assembly area. On two fully automated, state-of-the-art assembly lines, large series can be produced efficiently. For the manufacturing operation, 1,000 square meters of space are available for the production of customer-specific systems and small series.

The magnetic tape production of the ELGO Group is located in Balzers. Since 2006, the location has also been a profit centre for lift-specific applications. SIL3 sensors for the lift industry are assembled, tested and delivered here.

The core competence of the Diessenhofen location is services in the field of electronic assemblies: Assembly of printed circuit boards, assembly of cables and mechanical parts, not only for ELGO, but also for numerous other customers.





Our junior staff

The training of our junior staff is particularly important to us.

Training and promoting young people has a long tradition at ELGO – an investment in the future that pays off. ELGO has been an apprenticeship company for 30 years.

During this time 175 young people have started their professional careers with an apprenticeship or a dual study. Today's leading managers and trainers were yesterday's trainees and students. We are proud of this. Without them our company would not be where it is today.



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