



Company Profile

ETEL

ABOUT ETEL

ETEL's core competence is the control of moving masses to any desired position on a high precision path at any required dynamics. ETEL achieves this thanks to the use of direct drive technology in all its products ranging from the broadest motors portfolio in the market to complete advanced motion solutions. Since its inception, ETEL has successfully remained the key innovative force in direct drive technology. Our goal is to anticipate the demands of the market, and we are continuously creating new and innovative concepts in direct drive technology allowing us to maintain our competitive advantage.

What was considered state-of-the-art a few years ago can quickly become outdated and may prove a hindrance to a customer's progress. Our technology and innovation have allowed us to be industry leaders in the past and will continue to give our customers a competitive advantage in the future. Our technology driven focus keeps our customers at the forefront and allows them to fully benefit from the industry's leading breakthroughs. Moreover having all our machines designed in-house in Switzerland guarantees high quality standards, reliability, and technological leadership.



ETEL's value proposition has been rewarded by the broad adoption in several markets and industries like semiconductor, medical, general electronics and many others, of components and complete solutions to different applications such as automation, testing, QC controlling, machining, dispensing and so on.

History

ETEL was founded in 1974 as a spin-off from the Swiss Federal Institute of Technology in Lausanne (Switzerland) with the intention of commercializing direct drive technology. As a pioneer in this field, ETEL's name has become synonymous with direct drive technology and has widely contributed to the growth and breakthrough of this revolutionary technology in a variety of industries.

The dramatic expansion of activities at the end of the 1990's persuaded DR. JOHANNES HEIDENHAIN GmbH to acquire ETEL and increase their competitive advantage in different high-end markets. For ETEL and its customers, the synergy between direct drive technology and advanced measurement systems has proven to be a winning combination.

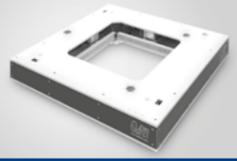
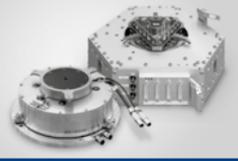
Future

With our clear focus on direct drive technology, we will continue to deploy innovative technology in markets where precision and dynamics are essential factors for success. Belonging to the HEIDENHAIN group allows complete integration of state-of-the-art solutions at all levels of the served industries. These successful synergies will be intensified and give rise to new high performance and leading-edge innovative motion solutions.

Moving forward, we will continue our collaborations to proactively produce cutting-edge, high performance motion solutions and components to solve any market need while adhering to our values and striving to serve clients with continued innovations.

Any company looking for a motion systems partner to provide high quality, precision, exceptional repeatability and reliability need look no further. ETEL has proven the ability to provide the latest technology to its customers allowing them to maintain their competitive advantage.

MILESTONES

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|---|---|---|---|---|
|  |  |  |  |  |
| 2019-2021 | 2017 | 2016 | 2015 | 2014 |
| New modular advanced motion platform and standard modules. | Development of the CHARON2 platform family. | The widest scope of supply thanks to ETEL forward integration. | Modular and scalable active isolation system (QuiET). | New standard rotary axes and combined modules. |

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| 2012-2013 | 2011 | 2010 | 2006-2008 | 2004-2005 |
| Advanced motion platforms including 450 mm wafer processes. | High speed torque motors family (TMK). New offices in China. | Launch of a new motion control family (AccurET & UltimET). New offices in Korea and Great-Britain. | Third and fourth building extension in Môtiers. ETEL pursues its Asian market penetration and opens a new subsidiary in Taiwan. | Development of an outstanding range of standard systems. Opening of new subsidiaries in Switzerland, Italy and Singapore. |

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|---|--|--|---|---|
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| 2002-2003 | 2000 | 1999 | 1998 | 1996 |
| Serial production of high performance (nanometer precision) motion systems. Opening of ETEL in France and The Netherlands. | ISO 9001 certification. Launch of the DSC position controllers family. Second headquarters extension. Opening of ETEL Inc. (USA). | DR. JOHANNES HEIDENHAIN GmbH acquires a stake in ETEL. ETEL becomes the largest supplier of direct drives worldwide. Opening of ETEL GmbH Germany. | ETEL presents its first precision positioning system. | Launch of the new standard program for direct drive motors and of the first standard digital position controllers. First headquarters extension. |

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|---|--|---|---|---|
|  |  |  |  |  |
| 1992 | 1988 | 1981 | 1977 | 1974 |
| High force linear motors development. | ETEL delivers large torque motors (2500 mm) for telescopes. ETEL moves into its headquarters in Môtiers, Switzerland. | First brushless torque motor design for the food industry. | First linear motors development for the motorization of warehouse doors. | ETEL founded by Dr. Nicolas Wavre. |

A GLOBAL COMPANY

Headquartered in Môtiers in the canton of Neuchâtel in Switzerland, ETEL S.A. employs dedicated people in the areas of research and development, industrialization, production, supply chain, quality, sales, marketing and support. Our employees make up the backbone of the company and their combined knowledge and commitment offer innovative direct drive products to our customers. In order to keep the expertise of our employees up-to-date we offer and encourage them to take opportunities to enhance their education and improve their skills. On-site training courses are internationally diverse and cover a variety of subjects including foreign languages, project management and leadership. Our aim is to have satisfied and happy employees who are committed to the company for the long-term and take pride in contributing to ETEL's success.

Thanks to our numerous affiliates, sales offices, and representatives, ETEL is close to its customers all around the world. An efficient sales and technical support network provides coverage to the areas where ETEL is active. This network is optimally trained and able to offer technical consultancy and support on the selection, integration, and use of our products.

The organizational structure and expertise enable ETEL to anticipate the customers' needs and provide them with cutting-edge solutions. With our innovative direct drive technologies, our customers have a clear advantage over their competition.

The design of all our products is performed at ETEL's headquarters in Switzerland. It is essential to keep our ideas in-house to ensure the level of quality and consistency that our customers are familiar with. The "Swiss made" brand of quality is based on the technical expertise and knowledge of a workforce that is highly-qualified which is mandatory for the precision manufacturing of high quality products. ETEL is not willing to risk any part of our quality and high standards reputation by outsourcing any of its product's development.



PRODUCTION KEY POINTS

Production quality

ETEL's comprehensive range of direct drive products is subjected to stringent mechanical and electrical qualification tests at all stages of production in order to guarantee complete reliability during operation. Having an in-house management system ensures that the processes, responsibilities, and authorities are clearly defined through internal rules complying with ISO 9001:2015, OHSAS18001:2007 and current environmental regulations.

Modern infrastructure

Our production is done in modern facilities which include clean rooms (ISO 6), temperature and humidity controlled manufacturing areas (22 °C ± 1 °C), vibration-free floor tiles for system mountings and qualification tests. Our systems manufacturing is located in an environment-friendly, low-energy-consumption building certified by the Swiss label Minergie.

Mass production

Our flexible manufacturing processes enable us to switch quickly and efficiently from small batch production to large scale orders. Along with that, our in-house workshop enables fast manufacturing of precision mechanical parts to ensure the highest quality standards.

Customer support

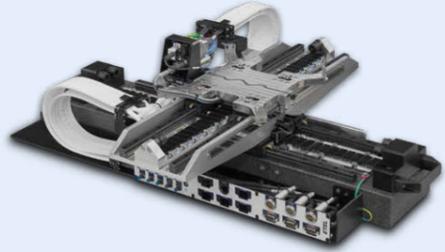
ETEL is dedicated to customer satisfaction and provides high quality sales and technical support to ensure the ongoing performance and reliability of its products and solutions. We offer a broad range of both individual and group training courses for our entire product portfolio in a modern infrastructure equipped with demonstration benches.

THREE CORE BUSINESSES

ETEL focuses on three core businesses; we develop, manufacture and support in the fields of:



For more information, refer to our **Product Overview** catalog.

| | | |
|-----------------------|---|--|
| MOTORS |  <p>LINEAR MOTORS</p> |  <p>TORQUE MOTORS</p> |
| MOTION CONTROL |  <p>MULTI-AXIS MOTION CONTROLLERS</p> |  <p>POSITION CONTROLLERS</p> |
| MOTION SYSTEMS |  <p>STANDARD MODULES</p> |  <p>ADVANCED MOTION PLATFORMS</p> |

COMPLETE ADVANCED MOTION SOLUTIONS

ETEL offers complete forward integration solutions where the advanced motion platform does not only include an advanced motion system and its associated motion and position controllers, but also benefits from ETEL's QuiET active isolation system. This makes ETEL the only motion system supplier able to cover such a wide scope of supply.



ADVANCED MOTION PLATFORM
addressing your most stringent requirements down to sub-nanometer levels.

ACTIVE ISOLATION SYSTEM
cancelling more than 99% of the vibration enabling unprecedented performance.

MOTION CONTROL
providing sub-nanometer stability, high acceleration as well as very short move and settle time.

ETEL IS THE ONLY MOTION SYSTEM SUPPLIER WITH A WIDE SCOPE OF SUPPLY. WE TAKE THE OWNERSHIP OF OVERALL PERFORMANCE!



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