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

- Linear motors
- Torque motors
- Multi-axis motion controllers
- Position controllers
- Standard modules
- Advanced motion platforms

Since its founding in 1974, ETEL has grown steadily to become a leading supplier of high performance motion control components and complete motion platforms. ETEL is the preferred supplier worldwide that is 100% dedicated to direct drive solutions. ETEL will maintain its leadership position with:

- Continuous technological innovation
- Leading-edge products and services
- Uncompromising quality standards
- Synergies within the HEIDENHAIN group already proven to be a winning combination
- A stable working environment where employees can develop their expertise and contribute to success

Our presence in a broad range of industries and experience with many demanding OEM manufacturers make us the perfect partner for companies looking for high precision, repeatability and long-life quality solutions.

High level competences and services

In order to serve its customers, ETEL has developed a variety of competences allowing ETEL to propose the appropriate abilities depending on machine builders’ support requirements:

- Application oriented engineering
- Turnkey solutions
- Complete vertical integration
- Mechatronic experts
- Customized services
- On-site support
- Hotline and technical support
- Advanced trainings

For more information about ETEL, refer to our Company Profile catalog.
Innovative Motion Control

ETEL offers the most comprehensive standard torque motor range in the industry with more than 100 models to choose from. ETEL's know-how in ironcore design provides unmatched torque efficiency and low torque ripple. ETEL also excels in developing custom motors to meet specific application needs.

**Highlights**
- External diameter up to 1290 mm
- Large hollow shaft up to 1070 mm
- Peak torque up to 42900 Nm
- Maximum rated speed up to 5450 rpm

**Ironcore highlights**
- Continuous force up to 478 N
- Peak force up to 3200 N
- Option: forced air cooling
- No attraction force
- No force ripple

**Ironless highlights**
- High force
- Medium force
- Very high mass glider
- Very low mass glider
- 600 VDC compliant

**TORQUE MOTORS**

ETEL's linear motors are divided into two categories: ironcore and ironless. With more than 50 models, almost any requirement can be successfully fulfilled.

**Ironcore highlights**
- Speed up to 15 m/s
- Continuous force up to 956 N
- Peak force up to 3850 N
- Low force ripple
- All linear motor types work with the same MWD magnetic way

**Ironless highlights**
- All linear motor types work with the same MWD magnetic way
- Low force ripple
- No attraction force

**LINEAR MOTORS**

ETEL's range of motion and position controllers allows machine builders to drive any available servo motors on the market (DC motors, brushless, steppers) with the highest performance regulation in a minimal footprint. Its decentralized architecture ensures the same level of performance and speed regardless the number of axes driven in the machine.

**Position controllers**
- ACCURAT dual axis controllers run up to 2 embedded programs per axis, so machine builders can manage any process specific tasks at the controller level.

**Multi-axis motion controllers**
- ULTIMAT ADVANCED, ULTIMAT LIGHT (IP2, PO Express) and TOTP/TOPR motion controllers can manage axis synchronization and interpolation of up to 63 axes on the TRANSMET bus.

**Software environment**
- COMET is a user-friendly interface for commissioning and maintenance with ETEL's controllers.
- WINGLET is the software tool for automated test and simulation.
- Interpolated Motion Planning (IMP) is a software for time/accuracy optimization of complex trajectories.
- ETEL Device Interface (EDI) is a library which enables the communication between ETEL's motion control system and customer's application.

**MOTION CONTROL**

ETEL's expertise and broad range of motion systems, satisfy the needs of many industries. Even the most demanding applications as found in semiconductor and electronics, can be achieved using single or multi-axes systems with proprietary electronics, controls and damping elements, thanks to a tailored ETEL product.

**MOTION SYSTEMS**

ETEL enables customers with unparalleled accuracy, repeatability and resolution, as a unique turn-key solution which dramatically reduces integration efforts and eliminates costs unrelated to their core activities. ETEL modular approach additionally brings easy pathways for lifetime extensions and faster ROI on any customer equipment and use case. When extreme speed, large payload and intense duty cycles cause reliability to be of paramount concern, ETEL leads this market with products of renowned quality, reliability and of no compromise on performance. From actuators to complete motion solutions, ETEL proudly serves customers with worry-and failure-free everlasting products.