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

**THREE CORE BUSINESSES**

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**ABOUT ETEL**
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.

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

**MULTI-AXIS MOTION CONTROLLERS**

**STANDARD MODULES**

**ADVANCED MOTION PLATFORMS**

**LINEAR MOTORS**

**TORQUE MOTORS**

**POSITION CONTROLLERS**

**STANDARD MODULES**

**ADVANCED MOTION PLATFORMS**

**Product Overview**
ETEL offers the most comprehensive standard torque motor range in the industry. With more than 100 models to choose from, almost any requirement can be successfully fulfilled.

ETEL’s know-how in ironcore design provides the industry’s most efficient direct drive torque motors. A continuous development effort maintains ETEL’s leading position in the market.

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

**Ironcore highlights**
- Speed up to 15 m/s
- Continuous force up to 956 N
- Peak force up to 3650 N
- Low force ripple
- All linear motor types work with the same MWD magnetic way

**Ironless highlights**
- Liquid cooling channels
- Low torque ripple
- Flux weakening compliant
- Up to 5 times speed increase vs TMB+
- Very high peak torque
- Continuous torque increased by up to 30% vs TMB+
- 600 VDC bus voltage
- TMK stator (up to Ø530 mm) compatible with the mechanical interface of the TMB+ series
- Very high peak torque
- High continuous force
- Low torque ripple
- Cageless motor
- Low mass glider
- 600 VDC compliant
- Very low mass glider
- 600 VDC compliant
- High continuous force
- Compact design
- Economic
- Low mass glider
- Very high peak torque
- 600 VDC compliant
- Low mass glider
- Very high peak torque
- 600 VDC compliant
- Active length up to 200 mm
- Flux weakening compliant
- High force
- Very low mass glider
- Low mass glider
- Very high peak torque
- 600 VDC compliant
- Very high peak torque
- Low torque ripple
- Liquid cooling channels

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

**Software environment**
- ComET is a user friendly interface for commissioning and maintenance with ETEL’s controllers.
- Interpolated Motion Planning (IMP) is a software for time/accuracy optimization of complex trajectories.

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.

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

**Highlights**
- More than 60 standard sizes available
- 690 VDC bus voltage
- Very high continuous torque
- Very high peak torque
- Flux weakening compliant
- Low torque ripple
- Designed for the most demanding applications
- Open or closed cooling variants
- Four different windings per diameter
- Active length up to 200 mm

**Ironless highlights**
- Continuous force up to 478 N
- Low glider masses down to 100 g
- Peak force up to 3200 N
- Option: forced air cooling
- No attraction force
- No force ripple

**Ironcore highlights**
- High force
- Very low mass glider
- 600 VDC compliant
- Medium force
- Very low mass glider
- 600 VDC compliant
- High force
- Low mass glider
- 600 VDC compliant

**TORQUE MOTORS**

**LINEAR MOTORS**

**MOTION CONTROL**

**MOTION SYSTEMS**