THREE CORE BUSINESSES

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





MOTION CONTROL

POSITION CONTROLLERS MULTI-AXIS MOTION CONTROLLERS







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Product Overview

ETEL

ETEL

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.

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.



TORQUE MOTORS

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 torgue up to 42900 Nm
- Maximum rated speed up to 5450 rpm



600 VDC bus voltage

IMK

- Continuous torque increased by up to 30% vs TMB Very high peak torque
- Up to 5 times speed increase vs TMB⁺
- · Flux weakening compliant
- Low torque ripple
- Liquid cooling channels

LINEAR 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 3650 N
- Low force ripple
- All linear motor types work with the same MWD magnetic way



Ironless highlights

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



MOTION CONTROL

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.

Multi-axis motion controllers

ULTIMET ADVANCED, ULTIMET LIGHT (PCI, PCI Express and TCP/IP) motion controllers can manage axis synchronization and interpolation of up to 63 axes on the TRANSNET bus.

Position controllers

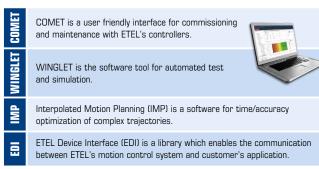
ULTIMET

URET 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.

Max. DC bus voltage [V]

600								MODULAR 600
400				MODULAR 400		MODULAR 400		MODULAR 400
340			MODULAR 300		MODULAR 300			
100					VHP 100		VHP 100	
48	VHP 48	MODULAR 48		MODULAR 48 VHP 48				
	1.5/3	2.5/5	4/7.5	5/10	7/15	10/20	10/30	15/40
	TRANSNET	RANSNET EtherCAT Cont. / peak current lArms:						

Software environment

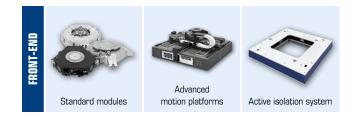


MOTION SYSTEMS

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.

Front-end

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.



Back-end

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.

