

Motion Control ACCURET VHP





ACCURET VHP POSITION CONTROLLERS

For the most demanding applications, ETEL developed a unique Very High Performance position controller range called ACCURET VHP. This range of product is equipped with both specific hardware and software that maximizes the performance.

ACCURET VHP position controllers are compatible with all the other ACCURET controllers and can be dedicated to the most demanding axes of a multi-axis motion system. In fact, it is the same decentralized architecture as used in the ACCURET modular. This allows an important part of the machine control software to be located at the axis level. In addition to the benefits of ETEL controllers such as high computation power, fast and real-time communication bus and state of the art control algorithms, ETEL's VHP range is providing outstanding signal to noise ratio.

ACCURET VHPs are successfully used in areas such as:

- Process control
- Wafer inspection
- Lithography
- · Wafer and die level packaging
- Test and control equipment

ADVANCED FEATURES

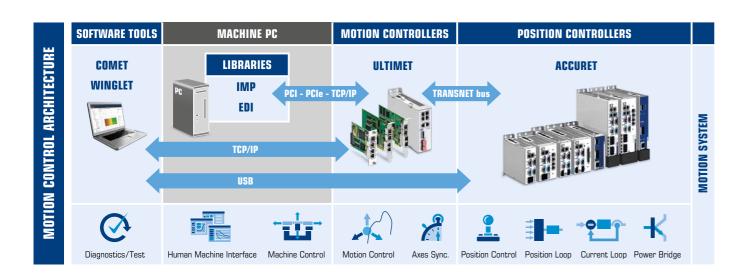
ETEL has always focused on developing advanced motion control features to make its position controllers unique in the market. In addition to the standard range of products. ETEL offers unique hardware that enables performance otherwise unachievable with conventional technologies.

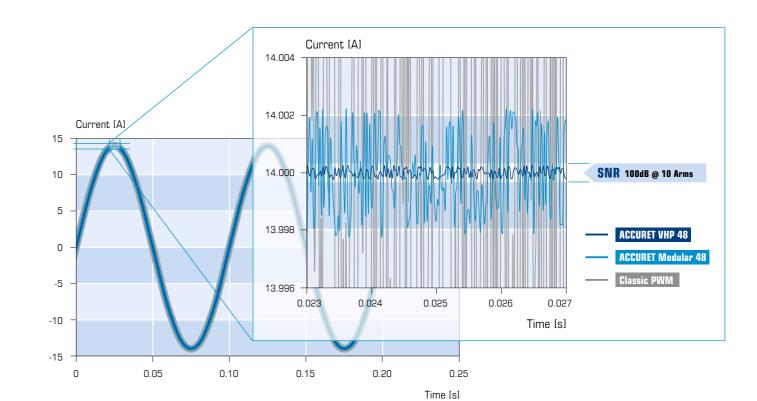
ACCURET VHP (Very High Performance) range includes all software features and advanced algorithms of the standard ACCURET range and combines these with a unique hardware design. VHP products are designed specifically to control the most demanding axes in terms of position stability and speed accuracy. To reach sub-nanometer position stability and extremely low tracking errors during dynamic motions ETEL has designed specific hardware.

ETEL's ACCURET VHP specific power output stage achieves outstanding signal to noise ratio of 100dB. This unique signal quality provides superior levels of performance both in position and speed stability. In addition ETEL's expertise delivers high levels of current that would be limited in traditional linear amplifier architectures. The unique VHP hardware is the key to combining outstanding positioning performance and high dynamics.

ACCURET VHP also provides advanced control features enabling more options and unique algorithms for complex motion systems. For instance, ACCURET VHP provides High Speed Encoder Interfaces (HSEI) to enable extremely high resolution position feedback in combination with high speed motion.

MOTION CONTROL ARCHITECTURE







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ULTIMET

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	SPECIFICATIONS	ACCURET VHP 48	ACCURET VHP 100
POSITION CONTROLLERS	Number of axes	2	2
	Bus voltage [VDC]	48	100
	Current continuous / peak [Arms]	1.5 / 3 5 / 10	7 / 15 10 / 30
	Size $H \times D \times W$ [mm] (no optional board possible)	130 x 180 x 100	130 x 240 x 125
	Encoder	Incremental analog (1 Vpp) up to 6 MHz, Absolute EnDat 2.1 and 2.2, TTL	
	Structured programming language sequences	2 threads of structured programming language sequences	
	Regulator type	Position state regulator with feedforward and advanced second order filters	
	Advanced control features	 Fast triggers (1D and 2D) Force control Identification tools Gantry control Stage protection Cogging and friction compensation 	 Dual encoder feedback RTV (Real Time Values) Trajectory filters High Speed Encoder Interface (HSEI) Built-in 16 bits analog Input/Output

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