



ACCURET+

Position controllers

 Engineered for semiconductor equipment
Suitable for all high-end positioning systems

High-performance controller platform engineered for semiconductor precision and scalable to any high-end positioning system.

ACCURET+ is ETEL's 4th generation position controller platform, designed to meet the extreme demands of semiconductor applications while offering flexibility required for any precision-critical motion system. Each compact unit controls two axes and supports a wide range of voltage and current levels, minimizing cabinet space and cabling complexity. The ACCURET+ range integrates seamlessly with ETEL motion controllers and supports TRANSNET real-time communication with nanosecond-level jitter and direct slave-to-slave data sharing.

Thanks to its decentralized architecture, advanced control algorithms run directly at the axis level, delivering nanometer-level stability, fast response times, and unmatched signal quality with a signal-to-noise ratio (SNR) up to 100 dB, even at 400 VDC.

ACCURET+ is also the only controller platform supporting EnDat3 with multi-DOF encoder feedback systems, enabling high-precision equipment to sense and compensate for real-time deviations across multiple degrees of freedom, directly at the drive level.



Dynamic range

Nanometer position jitter up to 400 VDC / 40 A



Decentralized control

Advanced control features executed at axis level



Power density

Compact and powerful control

NANOMETER LEVEL STABILITY AT FULL POWER

Maintain ultra-low position jitter, even at 400 VDC and 40 A, thanks to a unique dynamic range and advanced real-time control features.

FASTER RESPONSE, SHORTER SETTLING TIMES

20 kHz control loops and optimized architecture reduce move-and-settle times, while the <50 ns trigger reaction time on mapped positions enables ultra-precise process timings.

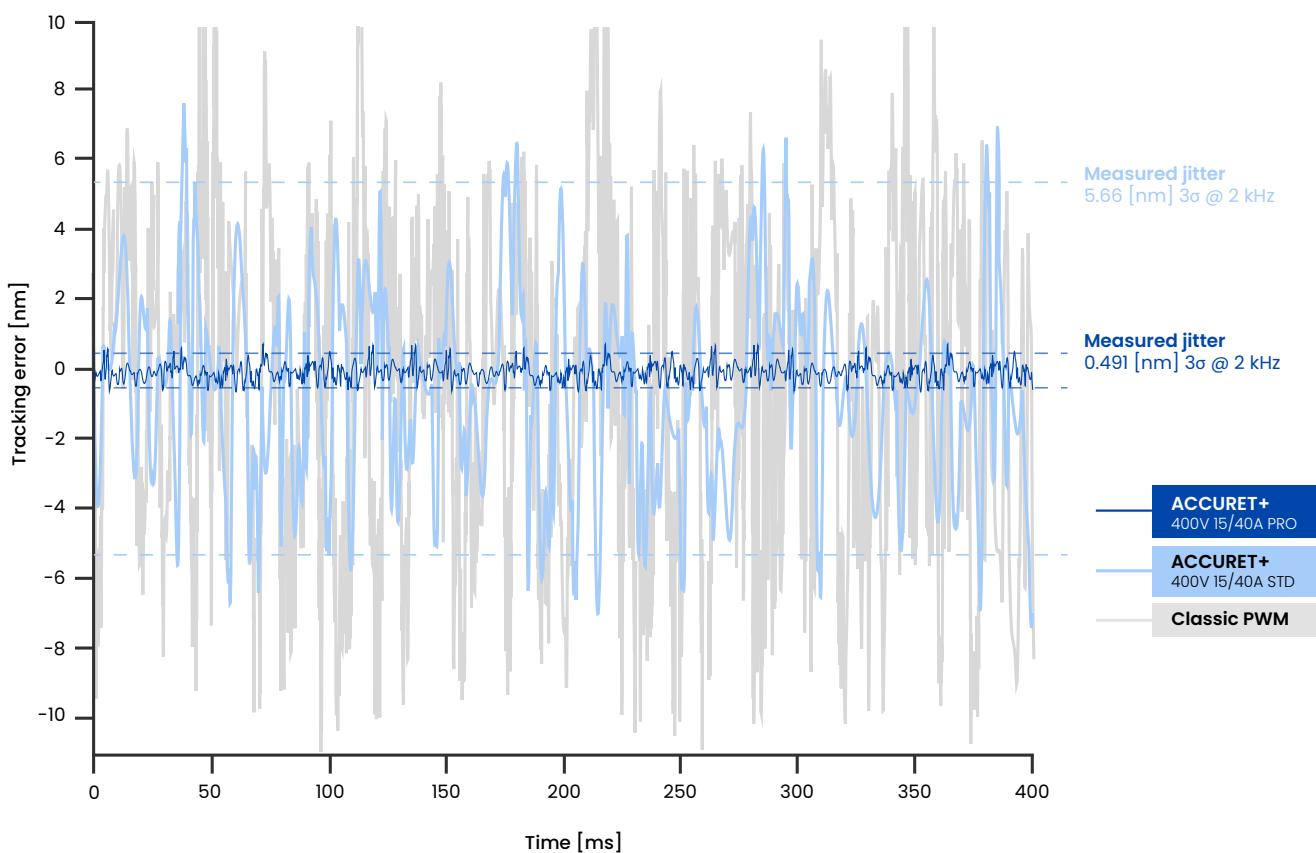
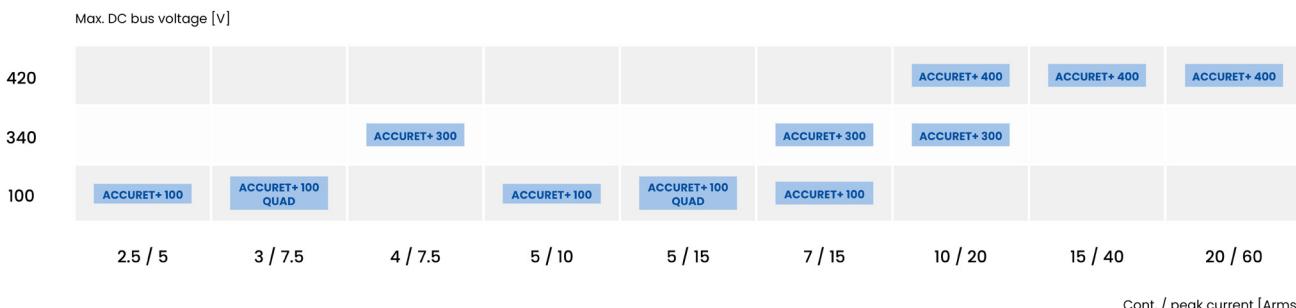
DIRECT INTEGRATION WITH ADVANCED METROLOGY

ACCURET+ uniquely supports EnDat3 multi-DOF encoders to sense and compensate real-time deviations making it perfect for precision-critical machines.

EMBEDDED INTELLIGENCE AT THE EDGE

Run user sequences, filters, friction models, scheduled gains, mappings, feedforwards, and more, directly at the axis level to reduce system latency and boost performance.

- › Supports voltages from 24 VDC to 400 VDC and currents up to 40 Arms
- › 20 kHz state-space regulator
- › Signal-to-noise ratio up to 105 dB
- › Integrated user programming engine
- › Functional Safety certified on all models (STO / SIL3)
- › Native EnDat3 support including HEIDENHAIN Multi-DOF encoders
- › Advanced metrology support and over-sensed axes control capability
- › Multi-layer mapping capability
- › Integrated user programming (4 concurrent threads per controller)



[More info](#)



Ver. 1.1