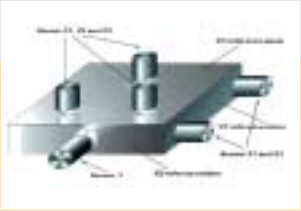


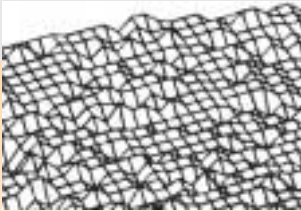
Technologies that set PI apart:



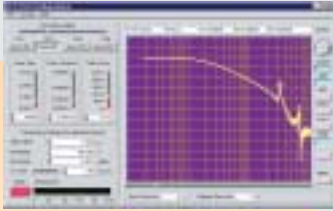
Parallel Kinematics Multi-Axis Micro- & Nano-positioning Systems
 reduced inertia, faster response, more compact, higher stiffness, no accumulation of errors, no moving cables (no friction), parallel metrology (higher multi-axis precision).



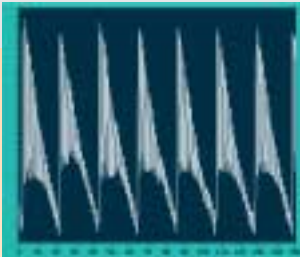
Parallel Metrology
 monitors all controlled degrees of freedom simultaneously; allows active trajectory control.



Active Trajectory Control
 allows active elimination of runout and off-axis errors to sub-nanometer and sub-microradian precision.



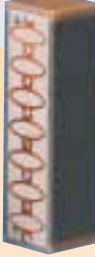
Dynamic Digital Linearization
 reduces phase lag and non-linearity in high-speed positioning, scanning and tracking applications. Improves effective bandwidth up to 3 orders of magnitude.



InputShaping®
 Eliminates self-generated ringing of components inside and outside the servo-loop. Allows settling within one period of the resonant frequency.



Capacitive Sensors
 Non-contact, absolute measuring devices providing sub-nanometer resolution, very high linearity and high bandwidth. Excellent for parallel-metrology configurations.



PICMA® Technology
 A new monolithic piezo actuator design with all-ceramic insulation, insensitive to humidity and providing significantly higher reliability, lifetime and operating temperature ranges than conventional piezo actuators. Ideal for vacuum applications.



Pline™ Piezo Motors
 are based on a novel solid-state ultrasonic piezo-ceramic drive. They are lightweight, low-profile and provide a number of advantages over conventional motors, such as negligible EMI, ultra-fast response, auto-locking, zero-backlash and excellent power-to-weight ratio.