



Precision Positioning with Piezo Systems Catalog

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PI PRESS RELEASE

New Catalog on Piezo-Mechanic Nanopositioning Motion Systems for OEM, Industry and Research Released

This new showcase catalog from PI covers piezomechanical actuation and precision motion systems for OEM, Industry and research.

January 2018, Auburn, MA – Motion and nano precision positioning systems leader PI (Physik Instrumente) released a new 250 page catalog on precision mechatronic actuators and nanopositioning systems based on piezo drive technology and frictionless flexure guiding systems. Products covered in this catalog use PI’s in-house designed and manufactured Mars Rover-tested piezo ceramic actuators as their drive principle.

Markets / Standard & Custom Solutions / OEM Products

A special form of electro-ceramics, piezo actuators deliver a unique combination of precision, speed, and force in a small package. Their lack of friction, particle generation, and associated wear makes them ideal for many high tech applications including photonics, super-resolution microscopy, high-speed dispensing and switching, medical engineering, etc. Miniaturized systems are available for easy integration into new or existing industrial, research, and OEM systems. Where a standard system cannot be used, customized solutions are available as outlined in the introduction of the catalog.

Examples of standard products highlighted in this publication range from low-cost OEM-type flexure actuators to 6-axis integrated nanopositioning systems, ultra-fast laser steering systems, and photonics alignment systems. Along with the piezo mechanic systems, digital controllers and sub-nanometer precise position sensors are part of the solutions PI offers. Many of these state-of-the-art precision motion products will be showcased at Photonics West in San Francisco later this month.

Long-Life Actuators

PI's piezo actuators were tested by NASA/JPL for the Mars mission and passed 100 billion cycles of life testing without failures.

Applications

Applications include optical microscopy, AFM, mechanical engineering, industrial manufacturing, quality assurance, scientific instrumentation, nano-dispensing, photonics packaging, astronomy, semiconductor test and manufacturing.

Request a Print Copy or Download the New Positioning with Piezo Systems catalog

<http://www.pi-usa.us/pdf/index.php#PiezoSys>

Watch Piezo Flexure Nanopositioning Systems Video

<https://www.youtube.com/embed/BJbYzLJ7kWA?start=182&rel=0>

Standard and Custom

PI has in-house engineered solutions with over 4 decades of experience working with customers to provide products that meet application demands, and can quickly modify existing product designs or provide a fully customized OEM part to fit the exact requirements of the application.

About PI

PI is a leading manufacturer of air bearing stages, piezoelectric solutions, precision motion control equipment, and hexapod parallel-kinematics for semiconductor applications, photonics, bio-nano-technology, and medical engineering. PI has been developing and manufacturing standard & custom precision products with piezoceramic and electromagnetic drives for 4 decades. The company has been ISO 9001 certified since 1994 and provides innovative, high-quality solutions for OEM and research. The PI group employs more than 1,000 people worldwide in 15 subsidiaries and R&D / engineering centers on 3 continents.

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