



Motion and Positioning Control Components and Systems

Piezo Nanopositioners

Gantries

Air-Bearing Stages

Linear Stages

Rotary Stages

Linear Actuators

Optical Mounts

Vertical-Lift Stages

Goniometers

High-Vacuum Systems

Galvanometers

Spindles

Gimbals

Motion Simulators

Motion Controllers

Amplifiers

Drive Racks

Linear Motors

Rotary Motors

Custom Electromechanical Systems

Who is AEROTECH?

1 Motors

Aerotech's complete lines of linear and rotary motors are used in a diverse array of industrial applications including robots, actuators, tables/stages, fiberoptics/ photonics alignment and positioning, assembly, machine tools, semiconductor equipment, electronic manufacturing, vision systems, as well as many other industrial automation applications. Motors include U-channel and flat linear motors, and both brush and brushless rotary models.

2 Drives

Aerotech PWM and linear drives power our own servomotors and complement Aerotech motion controllers in applications as diverse as industrial robots, vision systems, assembly machines, machine tools, semiconductor manufacturing equipment, electronic manufacturing, and in a variety of other industrial control solutions. Aerotech drives, controllers, and linear and rotary servomotors are matched to provide the ideal solution to your motion control application.

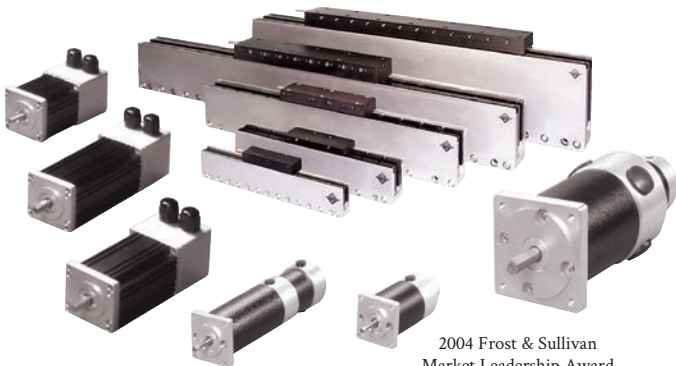
3 Controllers/Software

Aerotech's award-winning motion controllers are used in motion control and positioning systems throughout the world. Our most advanced motion controller, the software-only Automation 3200, provides from one to 32 axes of synchronized control. The Ensemble™ stand-alone controller provides up to ten axes of synchronized motion control in desktop, rack mount, or panel-mount configurations. The Soloist™ is a single-axis, Ethernet-enabled digital servo controller with integral power supply and amplifier.

4 Stages

Aerotech manufactures a large selection of both air-bearing and mechanical-bearing linear and rotary stages, as well as lift stages. Travel for our linear tables ranges from 25 mm to 1.5 meters, using either direct-drive linear motors or brushless rotary motors, depending on your needs. Our rotary tables include direct-drive as well as worm-gear-driven models. Our rotary stages are available with many different size apertures, table diameters, and mounting options. In addition, we manufacture lift stages for a wide range of applications.

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2004 Frost & Sullivan Market Leadership Award for Linear Motors

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Ensemble is a winner of the 2008 Semiconductor International Editors' Choice Best Product Award.

A3200 was nominated for the Design News Best Product of 2002 and was one of the finalists for the Product Design & Development 2002 Engineering Awards.

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Aerotech is a manufacturer of high quality motors, drives, motion controllers, stages, gantries, gimbals/optical mounts, and custom systems, and is uniquely qualified to assist you with all of your motion control and positioning needs. We provide motion control and positioning solutions for applications in semiconductor, automotive, medical, electronics, photonics, imaging, and other industries. We also manufacture custom, vacuum, and cleanroom compatible components and systems.

5 Piezo and Direct-Drive Nanopositioners

Aerotech ANT series direct-drive nanopositioners and QNP series piezo nanopositioners offer nanometer-level performance in compact packages. A wide variety of travel options make these precision devices perfect for applications including microscopy, optics alignment, disk-drive fabrication, fiber alignment, optical delay element actuation, sensor testing, and scanning and high-precision positioning.

6 Gantries

Aerotech gantries use our own brushless linear servomotors to meet the needs of assembly, electronic manufacturing, vision systems, and industrial automation. These industrial robots are available in models from low-cost modular linear actuators assembled in a gantry configuration with matching motion control and drives, to sophisticated gantry models with the largest travel, highest speed, and highest acceleration available.

7 Gimbals/Optical Mounts

Aerotech's gimbals and optical mounts are designed for highly accurate pointing, scanning, and target tracking of large optics, antennae, telescopes, and cameras, and can be used to test and calibrate inertial sensors, gyros, and seeker heads. Available in direct drive, gear drive, and manual models, they provide sub-arc-second resolution and accommodate loads up to 600 mm in diameter.

8 Engineered Systems

Aerotech has custom-engineered systems for some of the largest manufacturers in the world. We have developed an array of systems for applications including semiconductor, photovoltaics, medical, laboratory, photonics and fiber optics, lasers, automotive, packaging, and more. We are well-versed in vacuum and cleanroom techniques, and use our vast motion control and positioning system experience to design systems tailor-made for our customers' operations, while employing the most accurate, highest performance motion control and positioning components available.

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The ANT130-XY linear stage was awarded the Design News Golden Mousetrap Best New Product of 2010, and the 2011 Control Engineering Engineers' Choice Award.

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WaferMax T™ is a winner of the 2007 Semiconductor International Editors' Choice Best Product Award.

LaserTurn® 1 is a winner of the 2008 Control Engineering Engineers' Choice Award.



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Aerotech
United Kingdom



Aerotech
Germany



Aerotech
Japan



Aerotech
China



Aerotech
Taiwan



We continually upgrade our R&D and manufacturing facilities to remain on the cutting-edge of motion control and positioning technology. Aerotech maintains a state-of-the-art Motion Technology Laboratory, Nano Motion Laboratory, and a recently expanded large system ISO 14644-1 Class 6 (Federal Standard 209E Class 1000) and cell-specific ISO Class 5 (Class 100) cleanroom.

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