



PRECISIONEERS - ENGINEERING PASSION IN MOTION

Your integration partner for precision
motion and measurement technology

Unlocking High-Precision Solutions for Motion, Measurement, & Vision

More than just products – we integrate cutting-edge German technology into tailored solutions for your most demanding applications.

Engineering & Consulting Services

1

System Integration

We configure and install precision systems for optimal performance.

2

Technology Consulting

We help you select the right components for your specific needs – free of charge.

3

Custom Solution

Tailored system design for unique engineering challenges.

4

Support & Training

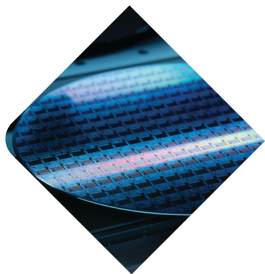
Ongoing technical support to maximize your investment.



 WHY
PRECISIONEERS

WE SPECIALIZE IN **SYSTEM INTEGRATION, CONSULTING, AND ENGINEERING SUPPORT**, ENSURING OUR CUSTOMERS RECEIVE CUSTOMIZED, HIGH-PERFORMANCE SOLUTIONS.

Our Expertise



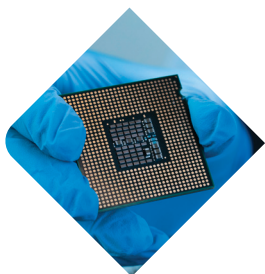
Semiconductors & Microfabrication

Precision positioning for wafer processing lithography, and inspection.



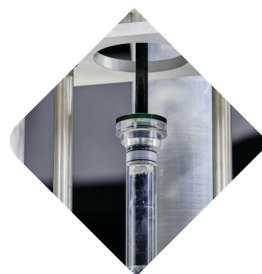
Aerospace & Defense

High-stability motion and measurement for extreme environments.



Advanced Manufacturing

Intelligent vision and motion control for automation.



Scientific Research & Metrology

Nanometer-level precision for laboratory applications.



Exclusive Partnerships with German Technology Leaders

We collaborate with world-class German manufacturers to deliver **integrated, high-precision solutions**. Our expertise ensures seamless implementation and peak performance in North American industries.

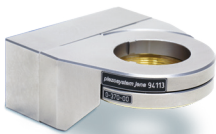
Integrated Solutions for Maximum Performance

Precision Motion & Measurement Solutions



Combining the strengths of piezo-based ultra-precise positioning (PSJ), long-travel motion systems (JAT), and laser interferometric calibration (SIOS) to deliver a fully integrated multi-technology motion solution. Ideal for:

◇ Ultra-Precise Positioning – Piezo Positioners & Stages by piezosystem jena



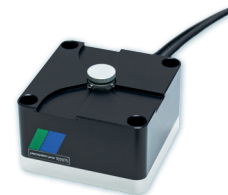
MIPOS Objective Positioners

Z-axis objective motion from 16 to 800 μm with sub-nanometer resolution.



Piezo Stages

Up to 5-axis nanopositioning stages with up to 400 microns of range.



PSH Tip-Tilt Stages/FSM

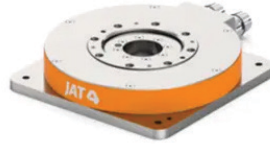
High-resolution stages with a tilt range up to 36 mrad.

◇ Long-Travel Motion – Multi-Axis Stages & Motion Systems by JAT



XYZ Gantry Stages

Up to 10-axis modular motion platforms with a resolution up to 1 μm .



Linear & Rotary Stages

Precision linear motion up to 1 m.
Rotary stage torque from .63 to 490 Nm.



Air-Bearing Positioning Systems

Highly dynamic strokes as short as 8 mm, with a repeatability of <math><100\text{ nm}</math>.

◇ Interferometric Calibration – Laser Measurement & Metrology by SIOS



Laser Interferometers

Multi-DOF simultaneous measurement with range up to 80 m.



Environmental Metrology Systems

Precise temperature resolution to 0.1 mK, and humidity resolution to 1% RH.



Vibration Measurement Systems

Measurable frequency of 0 ... 5 MHz, with a resolution up to 5 picometers.

This unique integration ensures that customers receive a **fully calibrated, high-performance motion system**, perfect for industries requiring the highest levels of precision and reliability.

Custom Optical & Microscopy Solutions



Providing tailor-made **optical systems and imaging solutions**, from **prototype to high-volume production**. Our partners offer:

◇ Custom Microscopy Solutions by UHL



Measurement Microscopes

Optical measurement microscopes with a resolution up to $.5 \mu\text{m}$.



Alignment Microscopes

Transportable for measurement to 10 mm, with a resolution to $1 \mu\text{m}$.



Portable Measuring Microscopes

Battery powered, with a focusing range of $\pm 4 \text{ mm}$, and a resolution of $10 \mu\text{m}$.

◇ Machine Vision & Imaging by Vision & Control



Telecentric Lenses (Vicotar BLUE Vision)

Large lens size options, variable apertures, and an integrated lighting option.



Telecentric Lighting

Multiple light colors, lenses range in diameter from 10 mm to 130 mm.



Vision Systems

Multi camera systems for more than 300 camera types.

Specialized Illumination Systems by LEJ



Luxyr LED Microscope Lights

Multiple models that offer UV and VIS light with minimal heat generation.



ampyr Light Controllers

LED Light controllers for precise adjustment of current, pulsing and delays.



Modular Illumination Platforms

Custom configurable lighting solutions for high-volume industrial use.

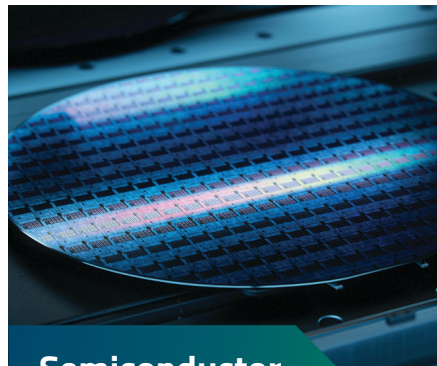
These components can be **customized for unique applications**, ensuring the highest flexibility for **research, production, and automated inspection systems**.

Customer Success Stories



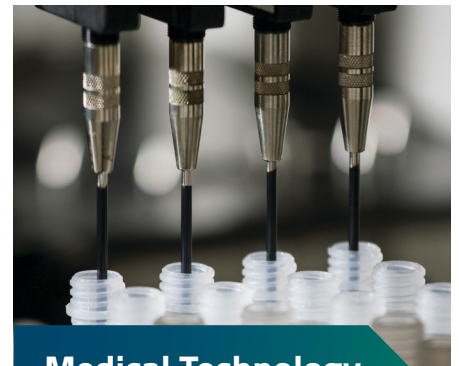
Aerospace

Implemented precision measurement systems for satellite component testing.



Semiconductor

Integrated nanopositioning stages for next-generation chip manufacturing.



Medical Technology


Developed custom vision inspection for microfluidic diagnostics.


Your Next Steps

Schedule a Free Consultation with Our Engineers – **Contact us today!**

Join Our Next Webinar on Precision Motion & Measurement – **Visit our website for more information!**

Serving North America with **precision-engineered solutions.**

 contact@precisioneersgroup.com

 www.precisioneersgroup.com



Precisioneers[™]
Group

1-508-634-6688

contact@precisioneersgroup.com

precisioneersgroup.com