



PRECISION METROLOGY SYSTEMS FOR INDUSTRIAL QUALITY CONTROL

Precision metrology systems play a critical role in empowering manufacturers to enhance productivity and maintain exceptional quality standards. These advanced solutions leverage data-driven insights and cutting-edge technologies to streamline processes across the entire manufacturing workflow—from design and engineering to production and quality assurance.

MSI Viking has a comprehensive portfolio of metrology hardware, software, and services. These systems enable accurate measurement and control, driving smarter and more efficient manufacturing practices. As trusted partners in industrial quality control, these solutions support industries in optimizing operations and achieving superior performance in an increasingly competitive landscape.

GLOBAL and Leitz Reference CMMs



Hexagon's Global and Leitz CMM models offer advanced measurement solutions tailored to varying inspection needs, from general purpose to ultrahigh accuracy applications. Designed for adaptability and future scalability, these systems support a range of sensor, software, and accessory options for optimal inspection performance.

SALES LINE CARD HIGHLIGHTS:

- **Global Series:** Highspeed, high throughput scanning for production environments.
- **Leitz Series:** Ultraprecision measurements for the tightest tolerances.
- **AutomationReady:** Seamlessly integrates with robotic automation.
- **Modular Upgrades:** Flexible options to meet evolving inspection needs.



Optiv M Series



The Hexagon Optiv M series offers multisensory CMM solutions designed for general purpose precision measurement of complex components across various materials and finishes. Equipped with optical, tactile, and rotary capabilities, the Optiv M series provides a versatile and scalable platform that supports seamless automation integration, ideal for smart manufacturing environments.

SALES LINE CARD HIGHLIGHTS:

- **Multisensory Measurement:** Combines camera, touch, and rotary sensors for versatile inspections.
- **Modular & Upgradeable:** Futureproof with infield upgrade options.
- **Automation Ready:** Integrates easily with IoT and automation solutions.

Laser Tracker Systems



Hexagon's Laser Tracker Systems, including the Leica Absolute Tracker series, are designed for precision, speed, and flexibility in large-scale metrology. With advanced features like long-range 3D scanning, high-speed dynamic measurement, and robust automation capabilities, these trackers enable seamless, high-accuracy measurement for complex applications across industries.

FEATURED HIGHLIGHTS:

- **Long-Range Scanning:** Supports ultra-long-distance, contactless 3D measurement.
- **Dynamic Tracking:** Capable of real-time, high-speed measurements
- **Portable & Durable:** Built to withstand challenging environments.

Absolute Arm Series



Hexagon's Absolute Arm Series offers portable precision with flexible configuration options across the 7-axis, 6-axis, and Compact models, designed for applications from high-speed scanning to ultra-precision touch probing. With ergonomic design, multi-sensor compatibility, and IP54 protection, it supports a range of industries seeking accurate, user-friendly measurement solutions.

FEATURED HIGHLIGHTS:

- **7-Axis for Versatile Scanning and Probing**
- **Compact for High-Precision, Small-Part Measurement**
- **Durability:** IP54-rated and shop floor-ready.

SmartScan VR800



Hexagon's SmartScan VR800 is a structured light scanner engineered for high-precision and flexible data capture across various inspection workflows. Its variable resolution, multi-camera setup, and software-controlled measurement volume adjustments streamline data collection for large and intricate parts.

FEATURED HIGHLIGHTS:

- **Variable Resolution:** Smart Zoom and Smart Resolution functions adapt data detail and area size instantly.
- **Multi-Camera Precision:** Dual stereo cameras reduce setup time and enhance accuracy.
- **Robust Design:** Carbon-fiber construction ensures stability for industrial environments.

Handheld 3D Scanners



Hexagon's ATLASCAN Max and MARVELSCAN handheld 3D scanners are tailored for versatility and ease in precision measurement. ATLASCAN Max offers wireless functionality, freedom from fixturing, and three distinct scan modes, ideal for flexible, high-accuracy scanning across complex geometries. MARVELSCAN enhances scanning with photogrammetry, providing augmented accuracy without targets or restrictions, perfect for large parts or environments with limited accessibility.

FEATURED HIGHLIGHTS:

- **ATLASCAN Max:** Dynamic, wireless scanning with multi-mode adaptability.
- **MARVELSCAN:** Photogrammetry-enabled, targetless for broad area coverage.

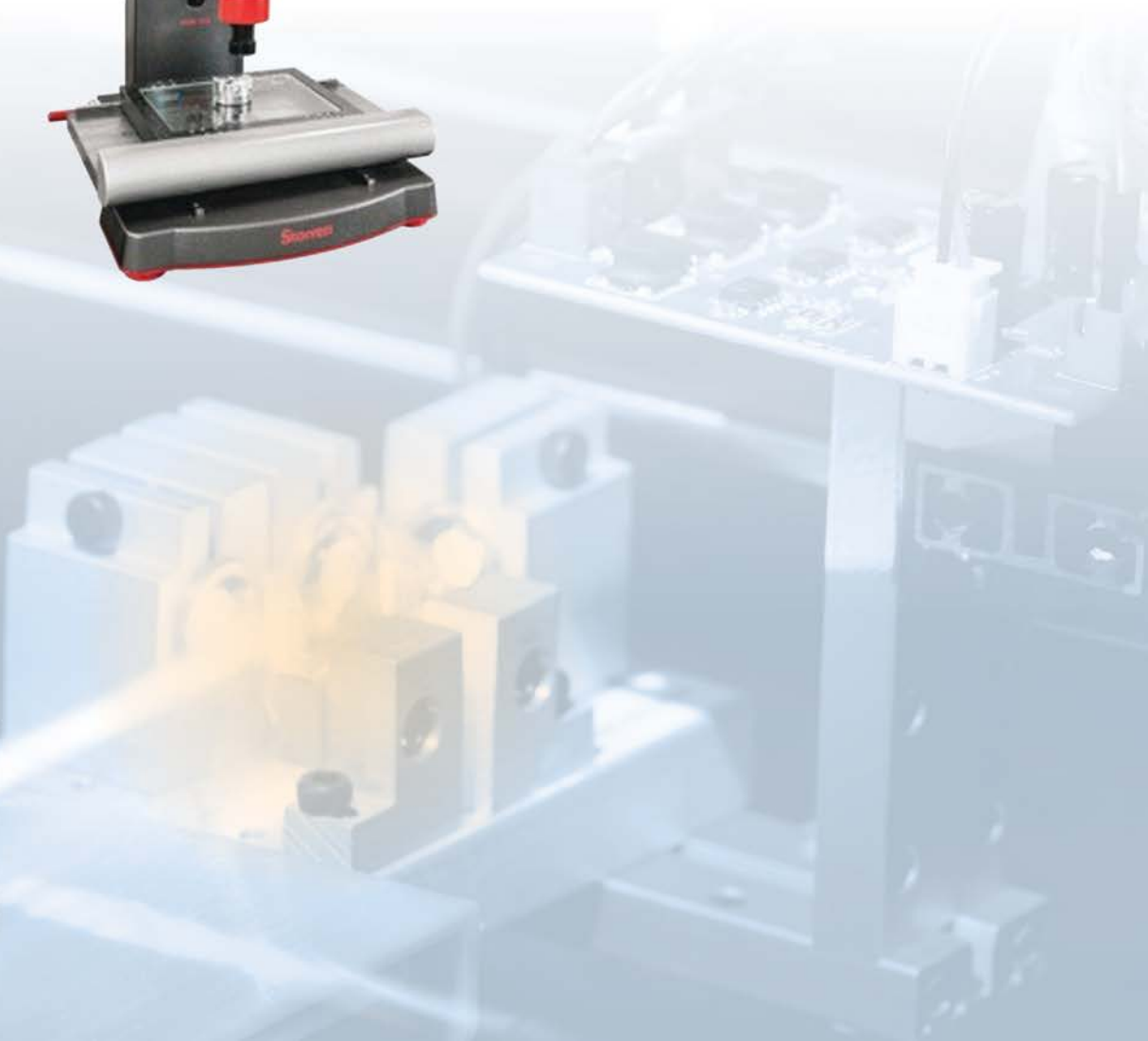


STARRETT COMPARATORS AND VIDEO SYSTEMS

When it comes to comparators, there's only one clear choice – Starrett. Starrett combines advanced optics and imaging technology to ensure bright, sharp images and exceptional accuracy. With a vast selection of styles, sizes, stages, lenses, and other accessories, Starrett has a comparator for most any application. Starrett video-based measurement systems combine high-resolution imaging, powerful intuitive software, and precision mechanical platforms to deliver high accuracy and repeatable measurement results.

APPLICATIONS

- Comparison Measurement
- Multi-Part Measurement
- Dimensional Measurement
- Geometric Tolerancing





VICIVISION OPTICAL SHAFT SYSTEMS

ViciVision high-speed optical measuring systems deliver best in class speed, accuracy, and reliability for shop floor measurement of shafts, cylinders, and other turned, ground, or extruded parts. ViciVision systems can accommodate parts from 8mm to 180mm in diameter and from 100mm to 1250mm in length. ViciVision advanced software enables measurement of lengths, diameters, distances, angles, radii, form, position, runout, and profile tolerances. Add CAD comparison and other specialized software to measure threads, camshafts, and crankshafts. Optional touch and confocal probe systems to detect features such as keyways, shafts with splines, gear teeth, and more.

APPLICATIONS

- Crankshafts
- Camshafts
- Turning
- Operations
- Screw Machine
- Operations
- Turbines
- Dental Implants
- Valves & more

METRIOS LARGE FOV OPTICAL SYSTEMS



Metrios is an automated optical measuring system with large field of view (FOV) for fast, accurate, and easy to achieve measurement results. Simply “place and press” for instantaneous measurements! The most complete lighting systems in its category, Metrios performs the measurement through a non-contact system, consisting of a high-resolution camera and three different lighting systems. Through a motorized ring light illuminator, Metrios can change the angle of incidence of the lights on the part and provide different angles of the light source within the same measurement cycle.

APPLICATIONS

- Punched Parts
- Flat Gears
- Fasteners
- Precision Machined Part
- Molded Plastic Parts
- Sealings

