



QL-RGMS-65 Roundness & Geometry Measuring System



QL-RGMS-65 represents a complete, factory-tested, turnkey system designed for mission-critical measurement operations in U.S. Government defense manufacturing environments. Delivered with comprehensive installation, commissioning, training, and solicitation-compliant warranty support, this system ensures operational readiness from day one.

6 Gage Heads

Complete multi-point measurement configuration with 6 brackets and stylus set

Footprint Compliant

65" x 38" maximum dimensions (PC excluded) per solicitation requirements

Air-Bearing Spindle

Precision rotary system with encoder feedback for accurate angular positioning



1

System Classification

Roundness & Geometry Measuring System (RGMS) designed for stacking prediction measurement workflows using multiple gage heads operating concurrently

2

Dimensional Compliance

Footprint maintained at maximum **65 inches (Length) × 38 inches (Width)** excluding PC workstation, ensuring facility integration compatibility

3

Measurement Hardware

Six (6) gage heads provided with **six (6) mounting brackets** and complete stylus set for comprehensive geometry acquisition capability

4

Alignment Capability

Manual centering and leveling worktable supports precise workpiece alignment and reduces measurement variability across repeated setups

5

Rotation System

Precision air-bearing spindle with integrated encoder feedback delivers stable, repeatable rotational measurement platform

6

Delivery & Warranty

Turnkey delivery to Tinker Air Force Base with solicitation-compliant warranty coverage and California-based technical support coordination

System Architecture & Components

Industrial Measurement Platform — Built for Repeatability

System Structure

The QL-RGMS-65 is constructed on a **granite-based measurement platform** that provides exceptional thermal stability and long-term dimensional integrity. This foundation supports a rigid measurement structure engineered to deliver repeatable precision performance across thousands of measurement cycles. The platform's mass and material properties minimize vibration sensitivity and thermal drift, ensuring measurement consistency in industrial environments.

Manual centering and leveling table capability enables operators to achieve accurate setup and alignment for each workpiece. This operator-friendly design supports efficient workpiece positioning while maintaining the repeatability essential for stacking prediction workflows. The system's ergonomic layout facilitates rapid setup procedures without compromising measurement accuracy.

Delivered Configuration

- Complete RGMS system (factory tested and verified prior to shipment)
- **6 precision gage heads** in full measurement configuration
- **6 mounting brackets** for secure gage head positioning
- Stylus set optimized for geometry measurement operations
- Integrated operator interface with measurement workflow support
- Digital operation and maintenance documentation package



Granite Platform

Thermally stable foundation for long-term measurement integrity and vibration damping



Gage Head Array

Six-point measurement capability enables comprehensive stacking prediction analysis



Alignment Table

Manual centering and leveling capability ensures accurate workpiece positioning

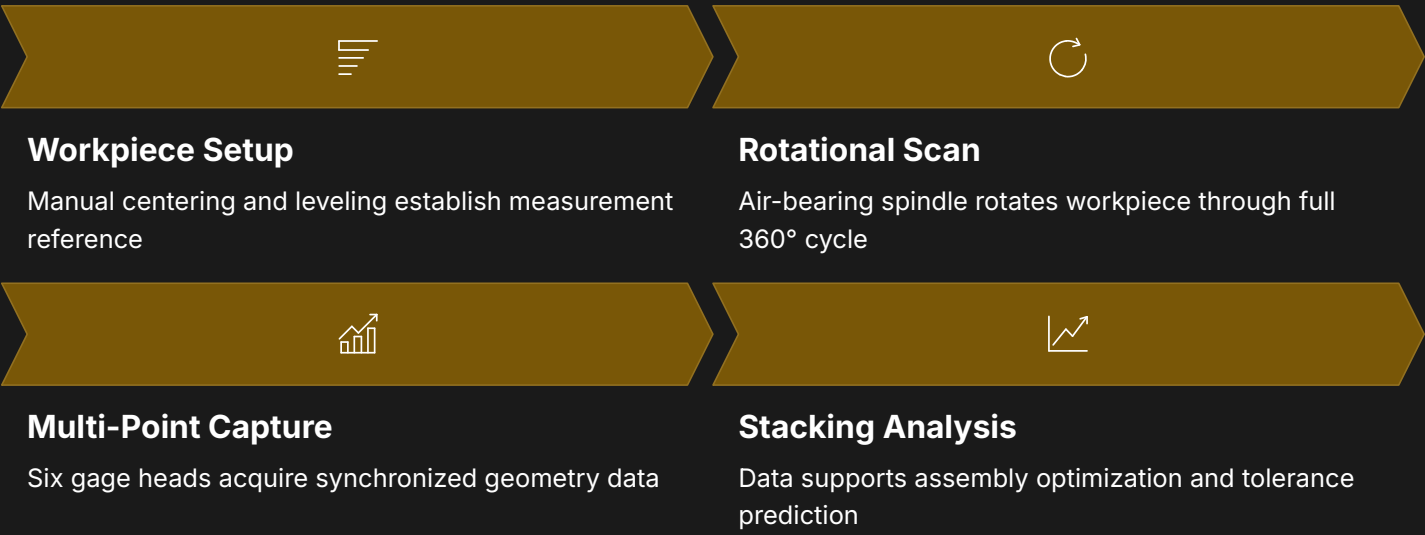
Rotary Spindle, Encoder & Measurement Workflow

Precision Rotation + Multi-Point Acquisition

Air-Bearing Technology The precision air-bearing rotary spindle eliminates mechanical friction and wear, delivering exceptionally smooth rotation with minimal runout error. This non-contact bearing system ensures consistent rotational accuracy throughout the system's operational lifetime, reducing maintenance requirements while maintaining measurement precision. Air-bearing technology provides superior performance compared to traditional ball-bearing systems, particularly for applications requiring sub-micron repeatability.	Encoder Feedback System High-resolution encoder feedback provides accurate angular positioning data throughout each measurement cycle. The encoder's precise angular resolution enables the system to capture geometry data at consistent rotational intervals, ensuring comprehensive coverage of the workpiece surface. This closed-loop feedback system maintains positional accuracy across full 360-degree rotational cycles, supporting reliable stacking prediction analysis.	Measurement Acquisition The system architecture enables stable measurement acquisition across complete rotational cycles, with all six gage heads capturing synchronized data. This multi-point acquisition capability is fundamental to stacking prediction methodology, where understanding geometric relationships between multiple measurement locations drives assembly optimization decisions in defense manufacturing applications.
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Stacking Prediction Workflow Support

The QL-RGMS-65 has been specifically designed to support **stacking prediction measurement methodology**—a critical quality control technique in aerospace manufacturing where component geometry must be precisely characterized to optimize assembly sequences and minimize accumulated tolerances. The system's multi-gage configuration supports simultaneous multi-point measurement acquisition, enabling operators to capture comprehensive geometric profiles in single measurement cycles.



Delivery, Installation, Training & Support

Turnkey Delivery — Operational Readiness Included



Warranty Coverage

Solicitation-compliant warranty providing comprehensive coverage for parts, labor, and system performance. Warranty terms align precisely with RFQ No. FA812626Q0013 requirements, ensuring Government protection and contractor accountability throughout the coverage period.



Technical Support

California-based support coordination provides responsive technical assistance, troubleshooting guidance, and application support. QuakeLogic's domestic support infrastructure ensures rapid response times and effective communication for mission-critical measurement operations.



Post-Warranty Service

Extended service agreements, spare parts support, and calibration services available beyond warranty period. Long-term system support ensures continued operational readiness and measurement performance throughout the system's operational lifecycle.



Partner with QuakeLogic for Precision Measurement Excellence

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Discover how **QuakeLogic's Roundness & Geometry Measuring System (RGMS) solutions**, including the **QL-RGMS-65 (6-Gage Stacking Prediction Configuration)**, can strengthen your measurement readiness—delivering **repeatable geometry verification, reliable stacking prediction workflows, and turnkey U.S.-based support** for mission-critical applications.

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