

MQS-PRISM

PRODUCTION RADIOGRAPHY

IMAGING SYSTEM BY MQS

Indigenous, high-throughput system for X-Ray inspection systems



MQS-PRISM AT A GLANCE

MQS-PRISM is a fully automated, high-throughput digital X-ray inspection system engineered for continuous industrial use. Capable of **inspecting over 1 million parts per year**, it is purpose-built for **24/7 production environments**. With **high-resolution digital radiography, advanced swivel-based motion control, and integrated Automated Defect Recognition (ADR) software, MQS-PRISM ensures consistent, accurate, and traceable inspections** – without slowing down your production line. It's the ultimate solution for manufacturers who demand speed, precision, and zero-defect quality assurance.

TECHNICAL HIGHLIGHTS

- *Swivel-Based Design*
Parallel scanning & loading for reduced cycle time
- *High-Resolution Imaging*
150–200 μm pixel pitch; up to 2880×2880 matrix
- *Multi-Angle Inspection*
Pre-set 0° to 90° views for enhanced flaw detection
- *X-Ray Energy Options*
160kV / 225kV with selectable 0.4/ 1.0 mm focal spot
- *AI-Based Automated Defect Recognition (ADR)*
ADR powered by ASTM-compliant algorithms
- *Integrated MIS Software*
Real-time image processing, filtering, and batch reports
- *Precision CNC Manipulator*
 $\pm 1\text{mm}$ / $\pm 1^\circ$ accuracy with smart interlock logic
- *Smart Factory Ready*
Barcode, cloud, and MES/ERP compatibility
- *Certified & Safe*
AERB-approved system with complete radiation shielding

WHY MQS - PRISM?

- *Made-in-India, Globally Competitive*
Engineered and supported locally, designed for global compliance
- *Zero-Compromise Quality*
Ensures 100% inspection with minimal false negatives
- *Maximized Uptime*
Built for continuous 24/7 use in harsh industrial settings
- *Scalable & Customizable*
Adaptable for various component types and production volumes
- *Operator-Friendly*
Intuitive interface with pre-loaded profiles for fast changeovers
- *Versatile Component Coverage*
Designed to inspect various components with minimal hardware changes
- *Complete Support Ecosystem*
From installation to training, service, and upgrades
- *Faster ROI*
Quicker return on CAPEX, reducing cost of quality