



MQX.OptimaXis

Bring X-ray inspection in-house. Build customer trust

*Affordable, Reliable, and Built for
Everyday Manufacturing*

Designed for small and mid-sized manufacturers seeking faster inspection, lower costs, and higher customer confidence.



*From raw casting to X-ray assurance -
OptimaXis makes quality visible.*

See inside what you make — with OptimaXis, inspection comes in-house.

www.mqstechnologies.in

Introduction & Applications

Introduction

Many casting and machining companies still depend on outside labs for X-ray inspection — paying every time and waiting for reports.

OptimaXis changes that. It's an **affordable, dependable X-ray inspection system** that helps you start **in-house inspection** — reducing cost, shortening turnaround time, and building stronger customer confidence.

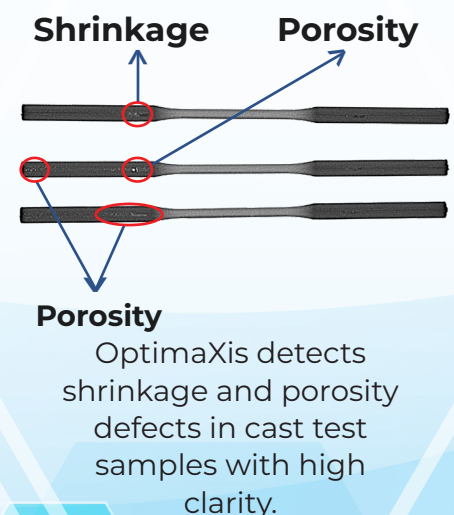
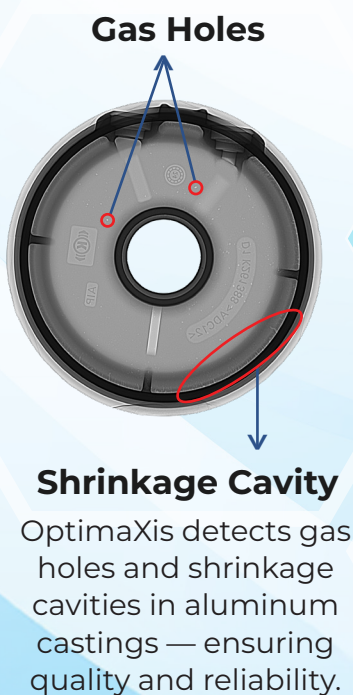
Built on MQS Technologies' proven expertise, OptimaXis is **safe, reliable, and easy** to use, making it ideal for manufacturers taking their **first step towards in-house quality control**.

Applications

OptimaXis is built for manufacturers who need dependable, everyday X-ray inspection — whether it's for castings, machined parts, or assemblies.

- › **Automotive Components:** Engine blocks, wheel castings, housings, EV parts
- › **Machined & Metal Parts:** Aluminium and carbon steel components
- › **Foundries & MSMEs:** First-time in-house X-ray setups for quality validation
- › **General Engineering:** Assemblies and precision parts requiring internal inspection

One system. Multiple applications. Reliable inspection made accessible.



Features & Benefits

Why Choose OptimaXis?

- » **High-Performance Imaging:** Clear visualization of internal features in aluminum and light-alloy parts.
- » **Compact & Easy to Use:** Fits into standard shop floors; simple joystick and touchscreen controls.
- » **Upgradeable Design:** Ready for future CT upgrades or higher kV configurations.
- » **Safety Assured:** AERB-compliant shielding, door interlocks, and emergency stop protection.
- » **Low Maintenance:** Rugged design with easily available local components.

Software Intelligence & Automation

Powered by MQS Imaging Suite (MIS)

Beyond precision mechanics, OptimaXis is powered by MQS Imaging Suite (MIS) — a proprietary software platform designed for accurate, repeatable, and operator-friendly inspection.

It brings together automation, imaging, and analytics to make inspection faster, smarter, and traceable.

Key Software Highlights:

- » **Automated Imaging & Enhancement** – Real-time contrast and brightness optimization for clearer images.
- » **Defect Detection Tools** – Identifies porosity, shrinkage, inclusions, and cracks in castings.
- » **Measurement & Comparison** – Calibrated ROI tools with side-by-side image comparison across batches.
- » **Simple GUI Control** – Intuitive, recipe-based interface with minimal operator training required.
- » **Compliant with ASTM E2422** – Meets international standards for digital radiographic inspection.

Technical Specifications

PARAMETER	SPECIFICATION
X-ray Tube	Mono block, 160 –200 kV
Detector	8"/9"/17", pixel pitch 140–200 microns
Manipulator	650 × 650 × 900 mm travel, tilt $\pm 45^\circ$, rotation 360°
Sample Size	Max ~700 × 700 × 800 mm
Sample Weight	Up to ~50 kg
Control	CNC/Joystick/GUI
Cabinet Shielding	<0.1 mSv/hr

Take control of quality with OptimaXis — the affordable X-ray solution for modern manufacturing.

Make in India. Built for the World.

About MQS Technologies

MQS Technologies (formerly MedeQuip Services) is a diversified firm with Design, manufacturing & maintenance capabilities that offers custom solutions for engineering & healthcare applications.

Focused on three business lines - Non-Destructive Testing, Aerospace & Defense and Healthcare, our USP lies in leveraging decades of multidisciplinary expertise in electronics, electro-mechanical, mechanical and software domains, to provide user-friendly products and services for a wide range of industries.

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Partners

