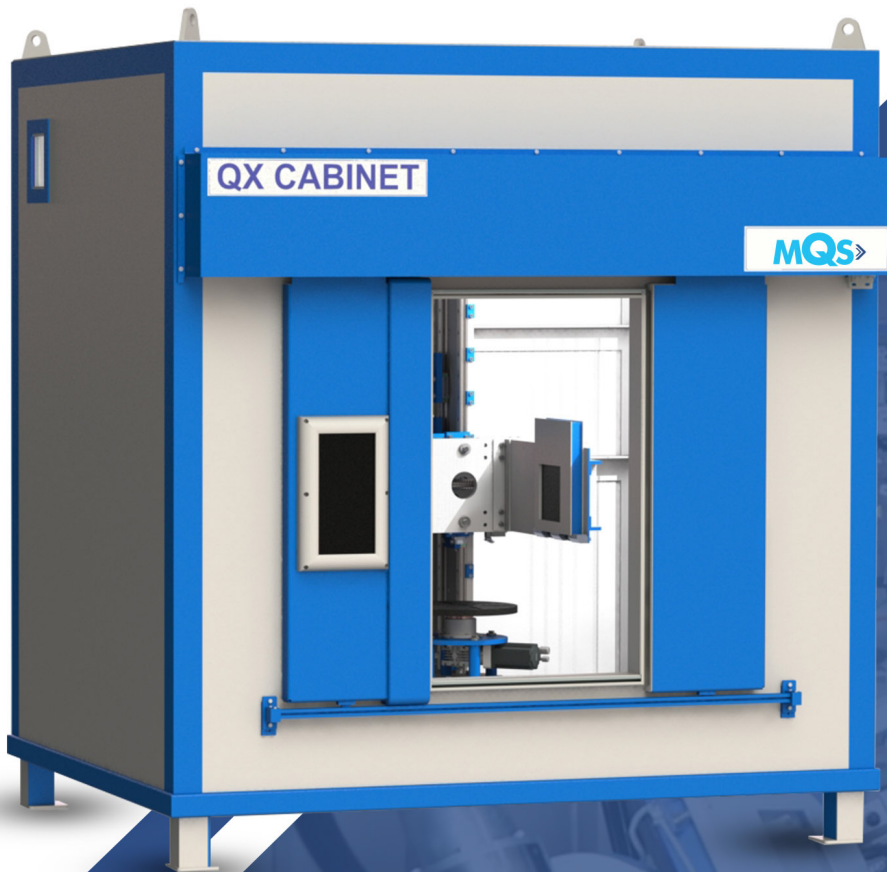


# MQXC Series Cabinet X-ray Inspection Systems



## MQXC cabinet at a glance

- ▶ Standard Energy: Up to 450kV
- ▶ Pixel Pitch: Up to 75μ
- ▶ Detector Active Area: 430x430mm
- ▶ Maximum Part Envelope: 500x600mm (DiameterxHeight) – Customizable to the user's requirements

## Built for safety & speed

- ▶ Steel/ Lead/ Steel sandwich construction
- ▶ Powered Sliding access Doors
- ▶ Leaded glass viewing window (optional)
- ▶ Internal camera monitoring system
- ▶ Designed as per AERB approved guidelines
- ▶ **Safety features:** Beacon alarms and interlocks

*A robust inspection solution that is flexible, safe and compliant*

# Why Choose MQS Technologies

MQS Technologies has catered to the radiography testing requirements of various critical projects in a wide range of industries.

Our cabinet designed as per AERB/ international approved guidelines. Built using sandwich construction techniques by making use of steel and lead, these cabinets are equipped with motorized access doors, leaded glass-viewing windows (optional) and internal monitoring systems. Get further mileage out of your MQS unit by requesting custom design elements that make your workflow easier than ever!

Rest assured your personnel are always protected – with built-in safety features like high-security interlocking door mechanisms, low leakage, beacon alarms, and optical guards, which shut down power on detecting accidental human presence.

Every customer of MQS Technologies relies on the unparalleled flexibility and class-leading technology that our industrial radiography solutions and services provide. Fool-proof detection and simplified operational ergonomics characterize our DR and CT systems in every industry. Our cabinet system is ideal for inspecting small, low-density samples such as automotive assemblies and large, high-density objects like munitions, castings, aerospace parts, other complex mechanisms.

## Our Expertise

- ▶ More than **60 Successful Installations**
- ▶ Over a **decade** of experience in **NDT Solutions**
- ▶ Qualified Engineers
- ▶ **Partnerships** with **Global OEMs**
- ▶ **AERB** approved designs

## Inspection Applications

- ▶ Aluminum, steel, and superalloy components
- ▶ Additive manufacturing components
- ▶ Fiber-reinforced composites
- ▶ Plastic injection molded parts
- ▶ Mechatronic modules
- ▶ Ammunition and small arms
- ▶ Aerospace components
- ▶ PCB
- ▶ Weld joint
- ▶ Li-ion batteries

# Inspection Meets Quality Imaging

- ▶ Our systems are integrated using best in class parts from leading OEM's and are customised to offer you a hassle-free and high quality inspection solution.
- ▶ Whether your requirement is for inspecting a precision casting or a large rocket motor, we offer automated solutions that guarantee noise-free 2D and 3D views

## Resolution matters

Voltage Range	160 kV		225 kV		320 kV		450 kV	
Focal Spot	0.4mm & 1mm	1mm & 5.5mm	0.4mm & 1mm	1mm & 5.5mm	0.4mm & 1mm	3mm & 5.5mm	0.4mm & 1mm	2.5mm & 5.5mm
Tube Type	Mini focus							
Power	800W & 1800W	640W & 3000W	800W & 1800W	640W & 3000W	800W & 1800W	1500W & 4200W	800W & 1800W	900W & 4500W
Analysis	2D/ CT Analysis							
Duty Cycle	100%							
Cabinet & Manipulator	Customizable as per the user's requirement							

DFPD	MQXRD 0822 XX	MQXRD 3025 XX	MQXRD 1621 XX	MQXRD 4343N XX
X-Ray Range	20 kV - 15 MeV	20 - 450 kV	20 kV - 15 MeV	20 kV - 15 MeV
Pixel Size	200µm	139µm	200µm	150µm
Active area size	200mm x 200mm	250mm x 300mm	400mm x 400mm	430mm x 430mm
Scintillator	CSI/ DRZ+			
Frame Rate	25fps in 1x1 binning 50fps in 2x2 binning	5.5fps in 1x1 binning 11fps in 2x2 binning	15fps in 1x1 binning 30fps in 2x2 binning	15fps in 1x1 binning 30fps in 2x2 binning

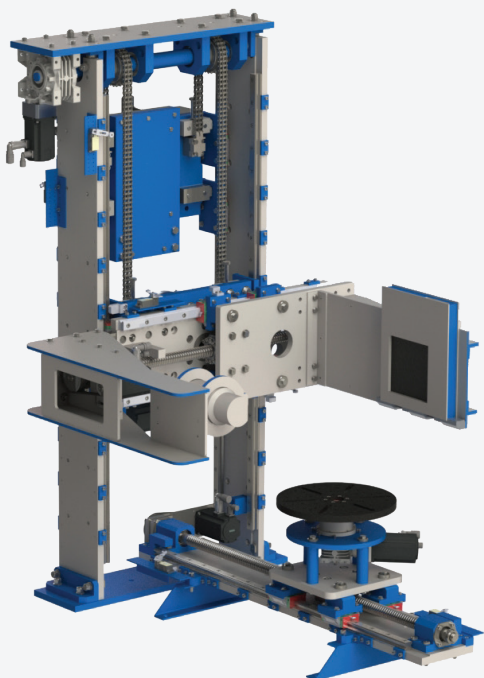
## Minimize Blind Spots and Maximize Inspection Efficiency

Maintain precision and stability with our flexible multi-axis manipulator that offers high accuracy movements.

Our manipulator is designed to inspect large vertical or horizontal curved surfaces, complex part assemblies and carry out close-to-surface inspections.

With the MQS manipulator, examine your workpiece from every possible angle with maximum detail – sustaining load capacities up to 100 kg.

Manipulator is controlled with precision by both stepper and servo drives and is easily operable through MQS Imaging suite in both manual and CNC modes.



### Manipulator Tech Specs

Axis	*Stroke (mm)
*Y-Axis Travel	~ 1100mm
*Z-Axis Travel	~ 1500mm
*X-Axis Travel	Linear: ~ 500mm, Tilt: ±45°
Object rotation (Turn table)	nx360°
Weight capacity of the table	~ 100kgs

*\*Customizable as per the client's requirements*

For designing a cabinet system customised for your inspection needs,  
**call or write to us**

## Our Clients



## 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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