

BIGMEKI

– Food X-Ray Inspection

X-ray technology has become the go-to option for food safety, but with Mekitec's inspection solutions you won't have to compromise the quality and traceability of your production either. Give you and your customers a peace of mind by choosing Mekitec.

BIGMEKI – Large Packaging Inspection

BIGMEKI quality control system leverages the latest X-ray image processing technology and artificial intelligence algorithms. This system combines the strengths of MIDMEKI system with substantially larger detection area, making it ideal for inspecting larger packages, including secondary packaging and oversized primary packages.



Specifically designed for the inspection of large-scale products, BIGMEKI rises to the challenge of maintaining quality control for sizable items. Like all Mekitec X-ray systems, it effortlessly handles high moisture content, elevated salt levels, and a variety of packaging materials (including metal and aluminum) without compromising inspection accuracy.

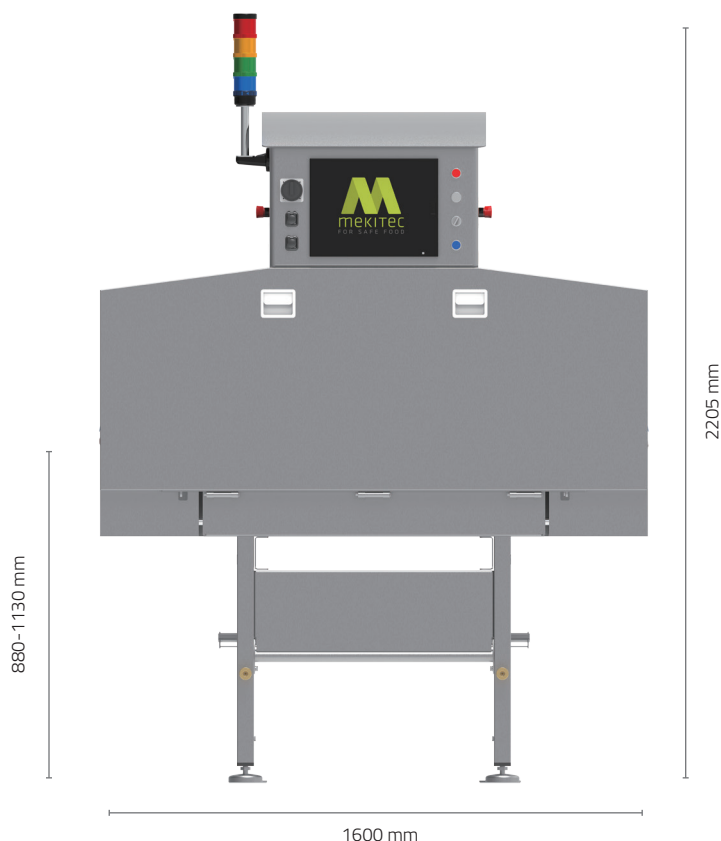
The BIGMEKI focuses on the essential features that matter most to food producers dealing with larger packages. By expanding our inspection capabilities to accommodate bigger items, we continue to deliver unparalleled performance and value to our most important stakeholder – our customer.

BIGMEKI is suitable for industries such as:



For more information, visit www.mekitec.com

X-Ray Inspection System for Large Products



TECHNICAL SPECIFICATIONS

Conveyor speed	Option 1: 0.23–0.44 m/s Option 2: 0.14–0.22 m/s
Conveyor load capacity	Option 1: max. 30 kg Option 2: max. 60 kg
X-ray power	40–150 kV, 1–10 mA, max 500 W
X-ray leakage	less than 1 µSv/h
Detector	Linear scanner, resolution 0.4mm
Software	MEKI AI X-ray Inspection Software
Operating system	Windows 11
Connectivity	USB, Ethernet
HMI	15" Color TFT LCD Screen
Operation Temperature	0–35°C ambient
Cooling	Optional cooling system ^[1]
IP rating	IP65 ^[2]
Relative humidity	30–85 %, non-condensing
System power supply	110/240 VAC, 50–60 Hz
Dimensions (W x D x H)	1600 mm x 1100/1373 mm x 2205 mm
Weight	700 kg
Material	Stainless steel, brushed
System conveyor	EU and FDA food use approved conveyor belt
Radiation protection	EN 61010-02-091, FDA CFR 21 part 1020, 40
Safety system	Safety circuit CAT 3, Performance Level PL d

^[1]External circuit IP34, internal circuit IP54.

^[2]Requires the use of washing covers for air intake.

DETECTION AREA

Maximum product height (mm)	
300	390
270	420
240	450
210	480
180	510
150	540
120	570
90	600
60	630
30	665
0	695
Maximum product width (mm)	

Inspected product must fit completely inside the detection area. Maximum product length will be defined by the selected rejection box and product features.

Maximum product length is 600 mm. For longer products, contact Mekitec.

BIGMEKI is especially suitable for the inspection of large, packaged products and trays with several products. For other applications, please refer to the datasheets of MEKI™, MEKI™ ONE, MIDMEKI and SIDEMEKI.