



MEKI™ ONE

– 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.

All you need in ONE

MEKI™ ONE is a concept with all you need from a Critical Control Point in one compact package. The ONE concept combines the superior X-ray sensitivity with the smallest footprint, still having all the latest features and functionalities expected by the global quality standards, such as integrated automatic reject, rejection bin, confirmation sensors, and system reporting.

MEKI™ ONE makes it easy for food producers to introduce food X-ray quality control to any packaging lines. The concept ensures that producers will meet and exceed expectations for production quality. With MEKI™ ONE, we offer the best value for the investment.



MEKI™ ONE is suitable for industries such as:



All You Need in One Frame – MEKI™ ONE

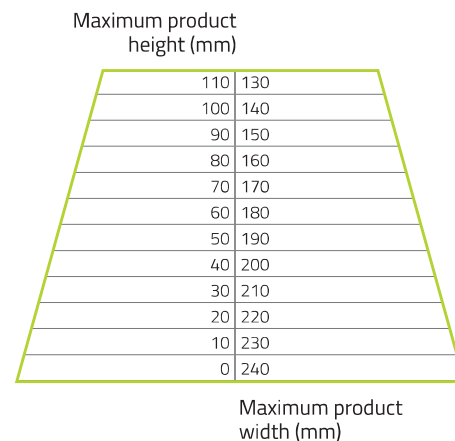


TECHNICAL SPECIFICATIONS

Conveyor speed	min. 0.1 m/s max. 1.3 m/s
Conveyor load capacity	max. 5 kg
X-ray power	30–60 kV, 0.2–2.5 mA, max 100 W
X-ray leakage	less than 1 μ Sv/h
Detector	Linear scanner, resolution 0.4 mm
Software	Mekitec X-Ray Inspection System SW
Operating system	Windows 10
Connectivity	USB, Ethernet
HMI	12" Color TFT LCD Screen
Operation Temperature	0–35°C ambient
Cooling	Optional cooling system
IP rating	IP54
Relative humidity	30–85 %, non-condensing
System power supply	110–230 VAC, 50/60 Hz
Dimensions (W x D x H)	1200/1280 mm x 715 mm x 2000 mm
Weight	155 kg
Material	Stainless steel, brushed
Reject	Integrated air reject with bin and standard reject confirmation
Options	One/two conveyor model, push-arm reject, hand sensors* and full reject confirmation
System conveyor	EU and FDA food use approved conveyor belt
Radiation protection	EN 61010-02-091, FDA CFR 21 part 1020.40
Safety switches	Safety circuit CAT 3, Performance Level PL d

*Hand sensors are required unless user access to the areas under radiation is prevented by other means such as extra shrouds or conveyor covers.

DETECTION AREA



Inspected product must fit completely inside the detection area. Maximum product length is approx. 250 mm, depending on the product weight and line speed. Rejection bin opening is 300 x 200 mm.

Examples (W x H x L):



MEKI™ ONE is particularly designed for the inspection of primary packaged food products. For other applications, please refer to the datasheet MEKI™, MEKI™ C, MIDMEKI and SIDEMEKI.