

TXRFA Series

X-Ray Inspection System for Fat Content Analysis

A high-sensitivity detector designed specifically for fat analysis combines with deep learning recognition technology to enhance inspection performance. The system accurately measures the fat content of raw materials inline while simultaneously detecting contaminants such as metal, glass and hard bone. Powered by Techik's proprietary large AI model, it delivers higher accuracy with fewer false detections. Its hygienic design is built for demanding meat-processing environments, with easy maintenance and savings in capital investment, floor space and labor.



Dual energy technology

Distinguishes materials by their composition.



Proprietary algorithms

Intelligent, real-time fat content analysis.



Multiple inspection functions

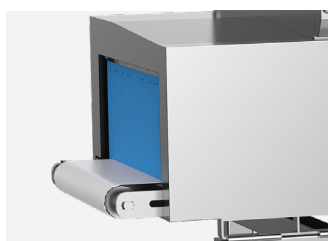
Fat content analysis, contaminant detection and weight inspection in one system.



High ingress protection

Optional IP69K protection for easy washdown.

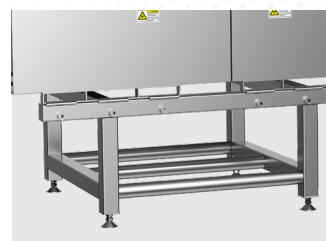
Product Details



○ Product infed system



○ Dual energy inspection chamber

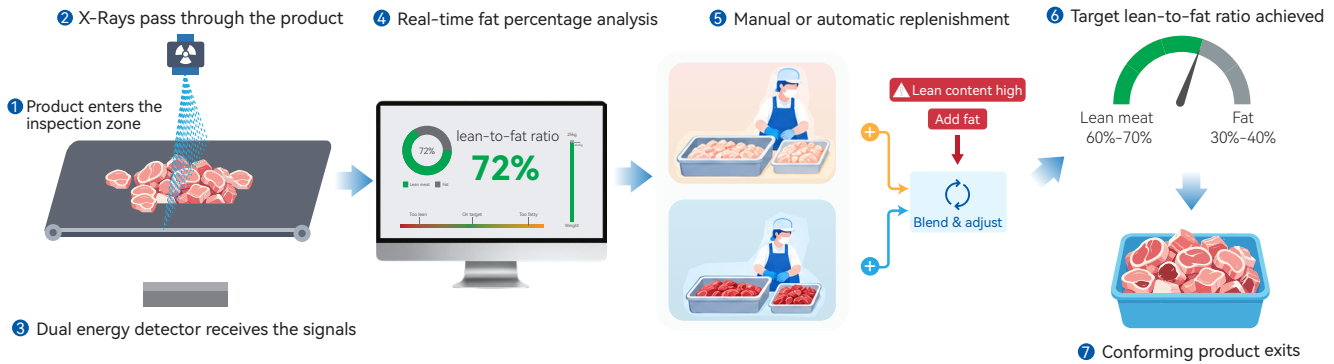


○ Rigid frame and base



○ Intelligent touchscreen control system

DETECTION PRINCIPLE



DETAILED DESCRIPTION

Model	TXRFA-G3-4016	TXRFA-G3-4030	TXRFA-G3-6030	TXRFA-G3-8040
X-Ray source	350W/500W options		500W	
X-Ray detector	Dedicated high-definition fat analysis detector: 0.4 / 0.1 options		Dedicated high-definition fat analysis detector: 0.8	
Aperture width (mm)	400	400	600	800
Aperture height (mm)	160	300	300	400
Belt speed (m/min)	10-40			
Overall dimensions (mm)	1000×1150×1950	1400×1150×2150	1400×1350×2150	1400×1550×2250
Maximum belt load (kg)	10	10	25	25
Power supply	AC220V, 1.5kVA, 50/60Hz			
Product format	Bulk and boxed meat			
Radiation safety	Below 1 μSv/h; safety shielding prevents X-ray leakage.			
Configuration Options				
Rejection method	Stop on reject (NG stop); automatic rejection			
Alarm	Audible and visual alarm			
Conveyor belt material	Food-grade PU			
Display	Touchscreen			
Operation	Touch input			
Ingress protection	Product passage: IP66			
Interfaces	LAN and USB ports			
Display languages	Chinese, English and other language options			

Notes:

1. The detection accuracy figures above were measured under no-load conditions; actual detection accuracy is subject to the specifications of the product being tested.
2. The machine specifications above are standard specifications; other dimensions and special requirements can be custom-built.
3. Products are subject to change without prior notice; the actual machine shall prevail. Please consult your sales representative for details.

