

Improving Product Efficiency with Combination of Multi-Lane Inspection System

An example of a combination system for seamless inspection of weight and foreign objects.



X-ray Inspection System

Checkweigher

High-accuracy, combined inspection with an efficient multi-lane system

High-accuracy combined inspection

Combined inspection with an inspection system equipped with advanced core technology, including foreign object inspection, weight check and inspection for product caught in the seal area, increases the reliability of quality control and supports customers in growing brand value.

Space-saving line configuration

Centerline pitch of checkweigher can be minimized to 50 mm, making the linkage with the x-ray inspection system efficient and eliminating the need of an extra conveyor between two systems. This helps improve production efficiency in a limited space.

Products can be rejected on a lane-by-lane basis.

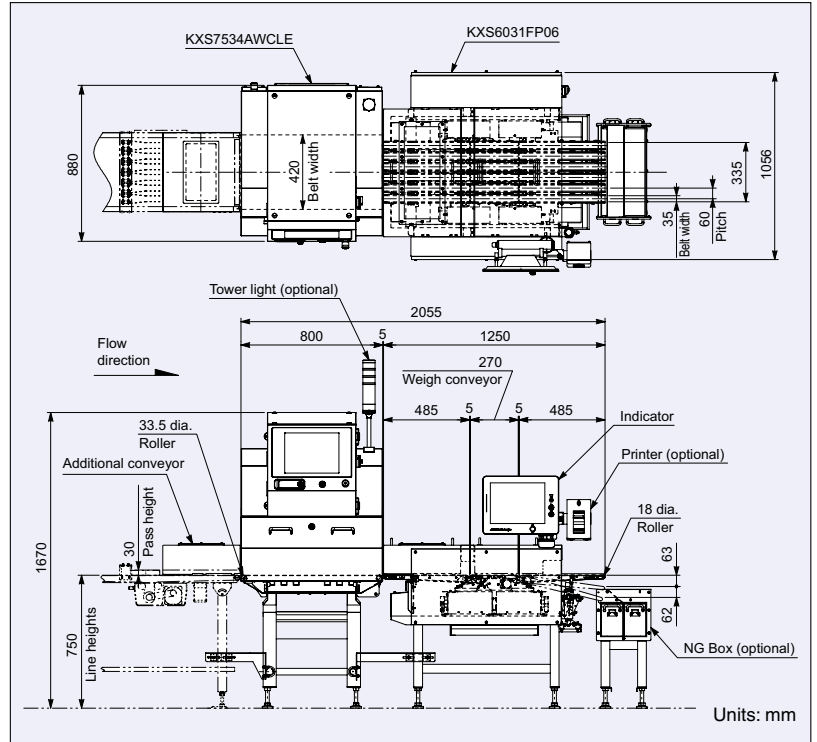
Products are rejected individually on each lane, preventing rejection of good products and reducing the rejection rate. Three-way rejection (Pass, Weight, Foreign Object) allows failed products to be managed separately.

Multi-lane inspection

Inspecting foreign objects and weight check can be performed in up to 12 lanes simultaneously, contributing to the improvement of production capacity.

* The number of lanes can be changed according to the product size and the line pitch.

External Dimensions



* The above configuration is based on a conveyor centerline pitch of 60 mm and 6 lanes.

Specifications

Model	KXS7534AWCLE
X-ray output	Tube voltage 30 to 80 kV, tube current 0.4 to 3.3 mA, output 12 to 100 W
Safety	X-ray leakage maximum 1.0 μ Sv/h or less, prevention of x-ray leakage by safety devices
Display	15-inch color TFT LCD
Operation method	Touch panel (with touch buzzer)
Detection area ^{1,2}	Maximum width 390 mm, maximum height 220 mm
Belt width	420 mm
Preset memory	200
Belt speed ³ / Maximum product weight ⁴	10 to 60 m/min, maximum 5 kg
Power requirements ⁵	100 to 240 Vac, single phase, 50/60 Hz, 700 VA or less (standard)
Mass ⁶	305 kg
Environmental conditions ⁷	Temperature: 0°C to 35°C, Relative humidity: 30% to 85%, non-condensing
Protection class	Conveyor: IP66 Other parts: IP40
Exterior	Stainless steel (SUS304)

- 1: The product size should fall below the detection area.
- 2: The entrance and exit may require covers depending on the length of a product.
- 3: Variable depending on Product No.
- 4: Sum total of product weight on the conveyor.
- 5: Allowable power fluctuation range is $\pm 10\%$.
- 6: Mass without option
- 7: The temperature between 0°C and 40°C when an optional air conditioner is installed. (AWCLE only)

Model	KXS6031FP06	
Lane	6	
Weighing range	0.4 to 100 g	
Scale interval	0.002 g	
Maximum throughput ¹	100 products/min per lane	
Maximum accuracy (3 σ) ¹	± 0.010 g	
Display	15-inch color LCD	
Operation method	Touch panel (Start, Stop, Home are direct push buttons)	
Indication range	100.9 g	
Preset memory	Maximum 50	
Classification	2 (3 as an option is available)	
Product size ²	Width	10 to 40 mm
	Length	46 to 230 mm
	Height	5 to 25 mm
Belt speed	15 to 30 m/min	
Power requirements	100 to 120 Vac +10% -15% or 200 to 240 Vac +10% -15%, single phase, 50/60 Hz, 550 VA, rush current 30 A (typ.) (130 ms or less)	
Air inlet (with exclusive-use rejector)	0.4 to 0.9 MPa, 0.2l [A.N.R.] (Maximum capacity per rejection operation per lane)	
Mass	190 kg	
Environmental conditions	0°C to 40°C (variation not to exceed 5°C/h to maintain accuracy), relative humidity 30% to 85%, non-condensing	
Protection class	IP30 compliance	
Exterior	Stainless steel (SUS304)	
Data output	USB port (USB2.0), Ethernet interface(10BASE-T, 100BASE-TX)	

- 1: The speed and accuracy vary according to the products to be weighed and the rejector.
 - 2: Consult us about semi-transparent and transparent products.
- Note: The noise level of the checkweighers does not exceed 70 dB(A).
Note: Weighing range, accuracy, and throughput other than above are available at your request.

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- To ensure proper operation, read the Operation Manual before using the machine.
- In addition to daily inspection, an annual maintenance check should be carried out.

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