

PATERSON

JLCW-3KG COMBO Automatic Checkweigher

A Cost-Effective
Solution for Modern
Factories



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JLCW-3KG COMBO

Integrated Check Weigher + Metal Detector Inspection System

Reliable, High-Precision Weight and Contaminant Inspection for Production Lines

In today's competitive manufacturing environment, quality control is no longer optional – it's essential. The JLCW-3KG COMBO system sets a new standard for end-of-line inspection by combining a dynamic check weigher with metal detection capabilities in one integrated machine. This all-in-one solution ensures that every product leaving your production line is both accurately weighed and free from metal contaminants, improving safety, compliance, and customer trust.

What Is a Combo Check Weigher System?

A combination check weigher integrates the functions of a high-precision dynamic weighing scale and a metal contamination detector into one compact inspection station. Unlike standalone checkweighers or metal detectors, combo systems perform dual inspection without requiring separate machines, significantly reducing total investment and line complexity.

Key Advantages of the JLCW-3KG COMBO

- Dual Inspection in One Solution
- Space-Saving Design
- Improved Operational Efficiency
- Enhanced Product Safety and Compliance

How the JLCW-3KG COMBO Works

- Dynamic Weighing
- Metal Contamination Scan
- Rejection System

Integration and Connectivity

Modern production environments often demand connectivity with factory systems and data analytics platforms. The JLCW-3KG COMBO supports standard interfaces for data export, reporting, and remote monitoring – enabling seamless integration into production management systems and quality control databases. This capability supports traceability requirements and continuous improvement initiatives.

Technical Specifications

JLCW-30KG Automatic Checkweigher

Item	Specification
Model	JLCW-3KG COMBO
Weighing Range	1 – 3000 g
Precision	±0.1 g
Display Scale	1 g
Throughput	Max 20-60 pcs/min (adjustable)
Weighing Belt Size	L 500 × W 300 mm
Rejection System	Automatic pusher with receiving bin
Product Recipes	Up to 100 product settings
Display	10-inch full-color touchscreen (HMI)
Flow Direction	Left to right (optional right to left)
Belt Height from Floor	750 mm ±50 mm adjustable
Material	Stainless Steel 304
Protection Rating	IP65
Conveyor Belt	Food-grade Habasit belt
Load Cell	HBM (Germany), IP65
Photoelectric Sensor	SICK (Germany)
Frequency Inverter	Siemens (Germany)
Motor	INVT IP65
Data Interfaces	LAN (MODBUS TCP), USB, RS232, RS485
Power Supply	220–230V, 50Hz, single phase
Air Supply	0.6 bar
Functions	Dynamic weighing, zero tracking, weight statistics
Certifications	CE
Warranty	2 years

FUNCTION

- 3 color tower light with alarm
- Protection wind cover
- ejection Mechanism: 2 pushers (one reject metal, another reject weight) + Bin
- Detection sensitivity: FE>=1.0mm, Non Ferrous>=1.5mm SS304>=2.0mm
- Tunnel size: W350mm, H200mm (customized)

Technical Drawing

