

**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

