

PERFECTION IN EVERY DETAIL

PRECISE WEIGHING AND SECURE
HANDLING FOR CYLINDRICAL PRODUCTS



General System Data

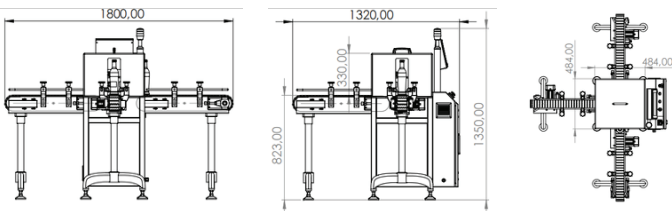
Model Series	ERS Rotary Checkweigher Series
Handling Principle	OrbitGrip™ Star Wheel
Capacity (Max.)	Up to 150–200 units per minute (depending on product and weight)
System Integration	In-Line or Standalone
Conveyor Configuration	(3, 4, or 5 belt segments)
Product Diameter	Ø 15–90 mm (Type 50 / 70 / 90)
Operating Height	650–950 mm (±50 mm adjustable)

Weighing Technology

Load Cell Type	High-Precision Load Cell
Gross Weighing Range	Up to 6000 g (configurable depending on the application)
Scale Interval (d)	≥ 0.1 g (depending on maximum capacity)
Zero Adjustment	Automatic / Manual Zero Tracking

Reject System

Classification	Up to 5 weight zones (+1 reject zone)
Reject Mechanism	Integrated Air Blow or Gentle Diverter
Reject Verification	Reject Monitoring Sensors (Cross-check control)
Reject Bin	Lockable Stainless Steel Bin with “Bin Full” sensor



Control & Electronics

HMI Control Unit	10.2" Color Touchscreen
Data Memory	Storage for 100+ product recipes
Standard Interfaces	Ethernet, USB, RS232, Modbus TCP
Data Output	Real-time statistics, batch reports, audit logs

Technical Specifications

The ERS Rotary Checkweigher Series is designed for high-precision weighing of unstable cylindrical products such as aerosol cans and pharmaceutical bottles. Unlike conventional conveyor-based systems, the proprietary OrbitGrip™ Technology securely grips products within a rotating star wheel, ensuring vibration-free transport even at high speeds. Thanks to its intelligent Line-Overlay™ architecture, the system can be installed directly above your existing conveyor. This allows installation without interrupting production or redesigning the line, while saving valuable floor space and providing 100% quality control in a compact structure.

Key Highlights

- OrbitGrip™ Stabilization:** Unlike conventional conveyor transport systems, the star wheel mechanism physically stabilizes cylindrical products and ensures absolute stability during the weighing process.
- Line-Overlay™ Retrofit:** The cantilever-style console frame mounts directly above your existing conveyor. This preserves the current production layout and enables non-invasive installation.
- Integrated Sorting:** The reject operation occurs within the star wheel path. Reject systems safely separate defective products before they return to the main line.
- Format Flexibility:** Tool-free format change allows star wheels to be replaced within minutes, supporting product diameters from Ø15 mm to Ø90 mm.
- Hygienic Engineering:** Manufactured entirely from AISI 304 stainless steel, the open-frame design prevents dirt accumulation and simplifies cleaning.
- Seamless Integration:** Supports Modbus, RS232, and Ethernet TCP/IP, enabling direct connectivity with ERP / MES systems.

Compliance & Process Safety

- **Aerosol Cans:** Stable weighing of long and narrow aluminum or tin aerosol containers.
- **Pharmaceutical Bottles:** Precise handling and inspection of small pharmaceutical bottles and serum containers.
- **Personal Care Products:** Shampoo bottles, deodorants, and cosmetic packaging.
- **Beverage Products:** Glass bottles, energy drinks, and similar cylindrical containers.