

CM3570 CombiChecker

Checkweighing and HACCP Monitoring in One System



Intuitive Operation and Ease of Integration

Operator-friendly menu-driven set up and system configuration in 29 languages affords unmatched ease of use. System configuration are performed using the checkweigher control and are tied to individual products eliminating the need for manual system adjustments after product changeover.



Maximum Performance for Complete Brand Protection

100% inspection for both metal contaminants and out of tolerance weights protects the consumer and your brand. The metal detector and checkweigher are matched to deliver optimum performance in difficult applications. With the CM3570's dual inspection functions, you can demonstrate due diligence and Critical Control Point monitoring as effective methods to increase product safety and as safeguards against poor quality.



Increased Performance

Production monitoring and control features to help optimize your production process and increase efficiencies. Higher production rates, better accuracy, and less downtime improve system performance and lead to increased OEE (Overall Equipment Effectiveness).



Safety is Designed In Designed for Safety

Designed to comply with the most current global machinery safety standards and qualified by the largest consumer products companies the CM3570 puts safety first. Risk assessments are a cornerstone of the design process and are available for each machine to assist the customer in developing their own task based risk assessment.



CM3570 – In-Line Checkweighing and Metal Detection in a Single System

In addition to its large package memory, the CM3570 CombiChecker system performs two key inspection functions in one simple integrated solution. Checkweigher and metal detector set up and configuration are done at the checkweigher control saving time and simplifying operation. Product changes result in automatic adaptation of each inspection device to the new package parameters. Easily customized from standard modules, this dual function system can be easily adapted to suit the more specific needs of the food, personal care and pharmaceutical industries.

Select from mechanical options like conveyors, guide rails, transfer plates, dual locking reject bins, and a variety of rejector types to ensure safe and secure handling of virtually any package type. Complement the mechanical features with a complete library of line integration, functional and operational, production monitoring and control, and communication options to customize the CM3570's security, performance, and data requirements to match the industry, customer and application for a complete customized solution.

CM3570

Enhanced Product Safety

The CM3570 CombiChecker features a compact footprint suitable for use virtually anywhere in the packaging line. Detection of off-weight and metal-contaminated packages in a single system saves valuable line space, reduces costs, and increases efficiency.

Integration of the metal detector with the checkweigher permits faster system set up and configuration, reliable tracking and segregation of metal and weight rejects into separate bins, and requires less time for package changeovers. The CombiChecker configuration can also help to bolster your HACCP (Hazard Analysis and Critical Control Points) plan by consolidating and reducing the number of critical control points and increasing plan efficiency.

CM3570 Standard Features

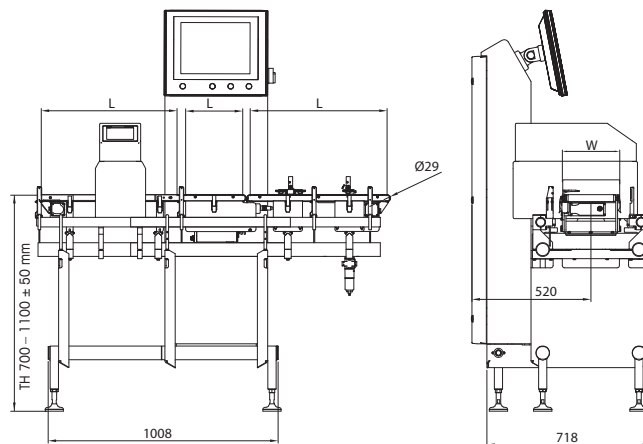
- Stainless steel and aluminum construction
- METTLER TOLEDO EMFR (Electromagnetic Force Restoration) Weigh Cell Technology
- Servo controlled conveyors for precise speed control
- Four support tube construction for strength and stability
- Stainless steel wire tray for cable routing
- Open and accessible design for inspection and sanitization
- Four unique conveyor types for any application
- Stainless steel metal detector housing
- Auto balance control for automatic adaptation of sensitivity to changing ambient conditions
- Three frequencies optimized for specific product conditions (wet or dry)

CM3570 Optional Features

- Metal detector conveyors
- Infeed timing and spacing conveyors
- Infeed and outfeed side grip conveyors
- Air jet rejector (tandem, dual, high throughput, high capacity)
- Pusher rejector (single, heavy capacity, high throughput, remote); swing gate
- Locking reject bins for metal and off weight packages
- Weigh conveyor draft shield
- Guide rails
- Transfer plates

XS Weighing Controller Standard Features

- UL508A Listed
- High contrast 15.0" Diagonal color touch screen user interface
- 1280 X 960 color pixel resolution; 24 bit true color
- Industrial PC with Windows™ embedded operating system (OS)
- Intuitive menu driven screen navigation
- Five weight classification zones
- 200 Product memory
- Weight data interface TCP/IP
- Data-graphic statistics with histogram for "at-a-glance" monitoring of production results
- One touch full screen weight display
- Supports 29 languages
- User configurable multi-level password protected security system
- PackML (ISA TR88.00.02) status screen
- IP69 Ingress Protection for user interface
- ProdX Inspect™ PROSync device interface



Schematic of standard design – typical dimensions in mm
(L, W vary depending on conveyor size)

XS Options and Accessories

- Seven weight classification zones
- 400 Product memory
- Weight data interface: serial
- Field Bus Interface Modules (FIM) for: Ethernet IP, DeviceNet, Control-Net, Profibus (Includes: PackML/ISA TR88.00.02 for communication of machine state information)
- METTLER TOLEDO OPC ServerDA 2.05A (Includes: PackML/ISA TR88.00.02 for communication of machine state information)
- METTLER TOLEDO Print Stick Reader PC software
- Pressure monitoring
- Four segment stack light for PackML (ISA TR88.00.02)
- Machine status
- Five segment stack light for weight classification zones
- Feedback to fillers or other upstream devices
- Customer speed control, 0-10 VDC analog input
- Windows domain log-in
- Piece counting
- Checkweigher real time statistical process control (SPC)
- Tare/gross systems
- Special documentation

CM3570	Technical Data
Customer Power	110 V nominal (accepts from 100 V to 120 V) or 220 V nominal (accepts from 200 V to 240 V), 50/60 Hz, single phase
Construction	Anodized aluminum and stainless steel
IP Rating ¹	IP65
Weighing Technology	Electromagnetic force restoration (EMFR) weighcell
Minimum and Maximum Capacity	Up to 10,000g
Minimum and Maximum Conveyor Speed	10 m/Min; 180 m/Min
Max Throughput	400 ppm
Accuracy ²	± 200 mg at 2 sigma ²
Conveyor Height [*]	550 mm to 1100 mm +/- 50mm (21.7" to 43.25" +/- 2")
Weigh Conveyor (W x L1, L2) ⁵	120 x 200, 250, 300, 400; 150 x 200, 250, 300, 400; 200 x 200, 250, 300, 400; 250 x 250, 300, 400; 300 x 300, 400
Infeed Conveyor (W x L1, L2) ⁵	120 x 600; 150 x 600; 200 x 600; 250 x 600; 300 x 600
Outfeed Conveyor (W x L1, L2) ⁵	120 x 250, 300, 400; 150 x 250, 300, 400; 200 x 250, 300, 400; 250 x 250, 300, 400; 300 x 300, 400
Pulley Diameter	29 mm
Conveyor Belt Material	Thermoplastic Polyurethane (TPU)
Air Supply	From 4 bar (60 psi) to 8 bar (115 psi)
Reject Types [*]	Air Jet, Pusher
Max Noise Level (dBA)	Less than 70 dBA at 1 m
Safety Standards in Compliance ³	In compliance with relevant US and EU standards ³
Standard Safety Circuit Category, max PL	Category 1 (ISO 13849-1) with PLb maximum
Approvals	UL 508A ⁴ , OIML, DE-07-MI006-PTB037
Quality System	ISO 9001
Operating and Storage Temp Range	0°C to 40°C per UL 508A; Storage -10°C to 60°C

¹IP ratings pertain to electrical constructions only and do not reflect the construction materials, per ISO 60529. The stated IP rating is the rating of the least protected part of the electrical system.

²Accuracy is given as ± 2 sigma, meaning that 95% of a sample will be within that 2 sigma range, and 4% can be outside the 2 sigma, but no greater than 3 sigma.

³For a complete list of currently applicable standards, please consult your Mettler Toledo representative.

⁴UL is Underwriters' Laboratories. The UL 508A listing is for industrial panels, per the scope defined in that standard. UL and Canadian UL (cUL) have reciprocity across both countries.

⁵Measurements are in mm.



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