

# Checkweighing



## C-Series Checkweighers

Global Solutions

Adapting to Your Needs

Future-proof Investment



## C-Series High Performance Checkweighing Solutions

**METTLER TOLEDO**

# C-Series Checkweighers

## Your Future Business is Our Commitment

**The C-Series with its product lines – StandardLine, PlusLine and AdvancedLine represents the very latest in weighing technology.**

This unique modular approach provides an extremely flexible platform on which to build a solution for any production line weighing challenge in the food, pharmaceutical and chemical industries. In addition the C-Series can be combined with other product inspection technologies, such as metal detection, x-ray and vision inspection to create complete multi-inspection solutions within a minimal footprint.

### Global Solutions



- All checkweighers and combination systems are available worldwide
- Complying with global food safety and pharmaceutical standards, laws and regulations
- Supported by a worldwide service network

### Adapting to Your Needs



- Up to 250 different software and product handling variants are readily available in the standard option portfolio
- A wide choice of component materials including high quality stainless steel and specialized conveyors for optimal performance in wet, dry and harsh environmental production conditions

### Future-proof Investment



- More than ten data communication standards including Ethernet, Fieldbus and OPC technologies for seamless integration into data networks
- High modularity allows upgrades to keep up with changes in production processes, packaging types and technology advances
- Supports Industry 4.0 and IoT integration programs

# Built for Simple to Complex Challenges

## Weighing Flexibility from 3 g to 80 kg

The C-Series is designed to easily manage every application scenario from simple to the most demanding and complex. This helps manufacturers to greatly improve production line efficiency and overall equipment effectiveness (OEE), increase product quality and protect the brand.



### C31 StandardLine

Dependable Accuracy

- High configurability for standard weighing applications
- Very versatile for demanding environments
- Data collection to support compliance

### C33 PlusLine

Robust Performance

- Highly customizable for complicated and precise applications
- High performance in challenging environments
- Data collection to support compliance

### C35 AdvancedLine

Precision and Versatility

- Fully customizable for complex and precision applications
- Unparalleled performance in challenging environments
- Data collection to support compliance
- Enhances production line performance, uptime, availability and quality

Weighing Range\*\*

20 g - 6 000 g

7 g - 7 500 g

3 g - 10 000 g

Accuracy\*\*\*

± 0.5 g (500 mg)

± 0.05 g (50 mg)

± 0.01 g (10 mg)

Throughput / Speed\*\*\*

≤ 200 weighings per min

≤ 300 weighings per min

≤ 600 weighings per min

Selectable Options

Up to 100

Up to 200

Up to 250

Combinations

Metal detection

Metal detection

Metal detection, x-ray and vision inspection

Standard Screen Size

7 inch

12 inch

15 inch



## Benefits across all lines



- Industry 4.0 enabled\*
- Easy and intuitive operation
- Global regulatory compliance
- Tailored to daily production challenges
- Can be combined with different inspection technologies
- Similar equipment design with shared spare parts



### C21 StandardLine

Dependable Accuracy

- High configurability for standard weighing applications
- Robust construction for heavy loads
- Data collection to support compliance

80 g - 80 kg  
 ±5 g to ±10 g  
 ≤ 90 meters per min  
 Up to 90  
 –  
 7 inch

### C23 PlusLine

Robust Performance

- Highly customizable for difficult and heavy load applications
- High performance in challenging environments
- Data collection to support compliance

80 g - 80 kg  
 ±5 g to ± 10 g  
 ≤ 150 meters per min  
 Up to 150  
 Input for metal detector  
 12 inch



\* Transfer of production & quality related data to external systems by using more than ten communication standards comprising PROFINET, PROFIBUS DP, DeviceNet, OPC DA / UA, Ethernet TCP/IP

\*\* Dependent on product (article) weight and the design and dimensions of the weighing conveyor being used

\*\*\* Within official margins of error, depending on weight, dimensions and characteristics of the product being weighed



# C-Series Combination Systems

## For Compliance and Brand Protection

The C-Series is available as a combination system with a choice of vision, x-ray and metal detection technologies to ensure that smaller footprints are achieved. Combination systems offer complete inspection solutions to safeguard brand reputation and for best possible quality. Due diligence options make them ideal as a Critical Control Point.



### CM31 | 33 | 35

Checkweigher and metal detector combination systems

C-series checkweighers combined with advanced Safeline metal detector systems (Large choice of metal detection heads depending on checkweigher model)

### CV35

Checkweigher and vision inspection combination system

The precision and versatility of the C35 checkweigher combined with an advanced CI-Vision inspection system

### CX35

Checkweigher and x-ray inspection combination system

The precision and versatility of the C35 checkweigher combined with an advanced Safeline X33 x-ray inspection system

### Overview of checkweighing combinations

	Profile LS Combi metal detector	Profile R-Series metal detector	Profile RZ metal detector	Profile Advantage metal detector	Vision inspection system	X-ray inspection system
<b>C35 AdvancedLine</b>	•	•	•	•	•	•
<b>C33 PlusLine</b>	•	•	•	•	–	–
<b>C31 StandardLine</b>	•	–	–	–	–	–

# Keep Your Production Running

## Service that You Can Rely on

METTLER TOLEDO Service is always somewhere close to you. Our global service network supports your checkweigher and other product inspection equipment throughout its entire lifecycle. This helps you to keep your competitive edge over rivals and maximizes your overall equipment effectiveness (OEE).



# Enhance Production Line Performance

## ProdX™ Data Management Software

ProdX allows you to connect and control your entire product inspection management process from a single point or from multiple remote locations, eliminating the need for time-consuming production line patrols. The software reads data from product inspection equipment such as automatic checkweighers, metal detectors, x-ray and vision inspection systems and captures the relevant production data.



It provides full traceability of production, real-time monitoring of Critical Control Points (CCPs), easy data export and centralizes product parameter management. ProdX has become a key element for producers to achieve transparency of plant activities.

[www.mt.com/c-series-pi](http://www.mt.com/c-series-pi)

For more information

**METTLER TOLEDO Group**  
Product Inspection Division  
Local contact: [www.mt.com/contacts](http://www.mt.com/contacts)

Subject to technical changes  
©04/2017 METTLER TOLEDO. All rights reserved  
PI-CW-C3FAM-BRO-EN-NOSUB-052017