

# C33 PlusLine

## Robust Performance



### Product Handling Flexibility

Highly customizable with 200 performance and productivity enhancing options. Product handling variants include sidegrip conveyors, starwheels and specialized guide rails ensure flawless product flow.



### Performance in Challenging Environments

Designed for endurance and maximum reliability to perform in wet, dry and harsh environments. Specialized conveyors are designed to match applications and production conditions.



### Data Collection to Support Compliance

More than ten data communication standards including Ethernet, Fieldbus and OPC technologies to provide the fullest suite of data collection tools available. Supports Industry 4.0 integration projects.



### Advanced Metal Detector Integration

Available as a combination system with a large range of advanced Safeline Profile metal detectors to ensure that smaller footprints are achieved. Due diligence solutions make it ideal as a Critical Control Point for best possible quality.



### Global Service Support

An extensive global service network fully supports cross-border contracts and ensures not only timely support, but also the availability and quick delivery of spare parts to reduce downtime and keep processes running smoothly.



## C33 PlusLine

### Efficiency in Demanding Environments

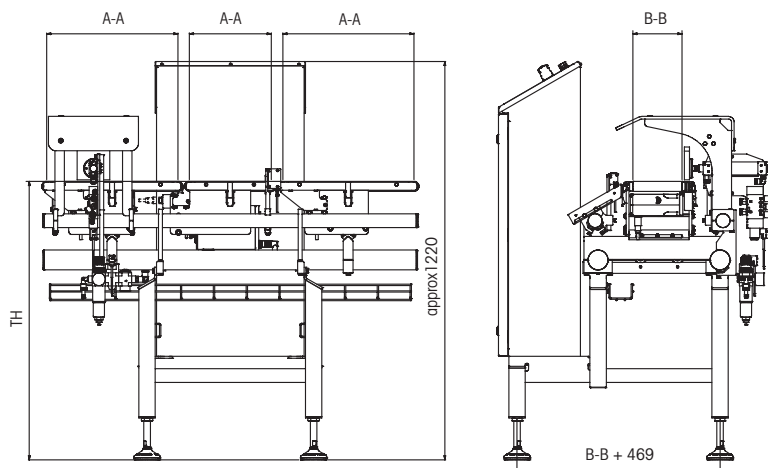
A throughput of up to 300 packs per minute, a weighing range from 7 g to 7.5 kg and very high weighing accuracy positions the C33 PlusLine at the forefront of checkweighing technology.

The robust performance of this checkweigher allows its use in nearly all industrial production situations requiring 100 percent weight control, especially those where demanding application requirements need to be achieved. Specialized conveyors and handling options allow for the optimal transport of unstable or open products such as jars, trays and cans. Systems are operated from a 12" multilingual touchscreen positioned in front of the weigher for maximum operator safety.

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General Technical Data	
Approval no. (DE)	Pending Weights & Measures design approval for official verification (MID certifiable)
Weighing technology	Strain gauge principle or electromagnetic force restoration (EMFR) principle, digital, maintenance-free, with temperature compensation
Weighing terminal (HMI)	12-inch color touchscreen TFT display, with emergency stop button, individual user access profiles with password protection, more than 30 selectable languages for the dialog/prompts; display of all key up-to-date weight data, production and configuration screens; real-time data capture and distribution
Conveyor belt speed	Continuously variable



Typical dimensions in mm (A-A, B-B vary depending on conveyor size, ranges below are in steps)

### Options and Accessories – Mechanical/Electromechanical

- High-performance conveyors for highest weighing accuracy
- Water protection design (IP65, stainless steel conveyors with easy belt removal)
- Up to four additional infeed conveyors for timing and spacing
- Sidegrip or top-bottom conveyors for flawless product transfer
- Various sorting/rejecting devices such as air blast (air jet), pusher, swing gate, lift gate, lift conveyor, drop-down conveyor
- Product collection devices such as plastic or stainless steel catch bins, turntable, and gravity roller path
- Control cabinet mounted at rear (terminal at front, on a pillar)
- HMI or enclosure mounted separately for optimal usability
- Various shields and safeguards for enhanced weighing performance as well as high process safety

### Options and Accessories – Electronic/Software

- Extensive statistical functions and printing/output options
- Automatic filling process readjustment (feedback control with three individual controllers for fill heads), standard or extended version
- Several monitoring and alarm options e.g. back-up detection and successive errors detection as well as color-coded and/or acoustic signaling devices to allow immediate reaction to production line problems
- Data interfaces and protocols e.g. Fieldbus (DeviceNet, PROFINET, PROFIBUS), OPC DA and UA, RS232/422/485, CL20 active/passive, industrial Ethernet/IP

### Technical Details

Technical Details	C31 StandardLine
Weighing range*	7 g - 7500 g
Accuracy**	from $\pm 0.05$ g (50 mg)
Throughput**	max. 300 weighings/minute
Infeed conveyor length (A-A) range	250 - 1 800 mm (distance between roller centers)
Infeed conveyor width (B-B) range	250 - 400 mm
Weighing conveyor length (A-A) range	150 - 600 mm (distance between roller centers)
Weighing conveyor width (B-B) range	120 - 400 mm
Outfeed conveyor length (A-A) range	250 - 1 800 mm (distance between roller centers)
Outfeed conveyor width (B-B) range	250 - 400 mm
Line height (TH), other heights on enquiry	550 - 1 500 mm ( $\pm 50$ mm)
Compressed air supply	approx. 6 bars (87 p.s.i.)
Noise level, standard system at full speed***	less than 70 dBA at 1 m height and 1 m distance
Product (article) setup memory	for up to 400 products
Classification	in 3 or 5 weight zones
Zero reset	automatic or manual
Electrical (with lockable mains disconnect)	110/230 VAC, single-phase, 50/60 Hz, 750 VA - 1 kVA
Ingress protection rating	IP 54, optional IP 65 (water protection design)
Surface finish	stainless steel

\* 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 transport characteristics of the product being weighed

\*\*\* Certain conveyor and sorting/rejecting device options may increase the system noise level

- Interface to the METTLER TOLEDO SQC system FreeWeigh.Net™ or ProdX™ data management system – for remote access and enhanced insight in production processes
- Control panel (control cabinet) in compliance with UL508A

Other options and accessories available

**METTLER TOLEDO Service** with global reach and tailored care solutions



Typical package shapes



### Mettler-Toledo Group

Product Inspection Division

Local contact: [www.mt.com/contacts](http://www.mt.com/contacts)

Subject to technical changes. Images are examples only.

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221 EN

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