

C31 StandardLine

Essential, Reliable Checkweighing



C31 StandardLine Checkweigher

Affordable checkweigher ideally suited to replace spot checks with 100 percent inline weight control. The easy to use system offers reliable performance for food and non-food applications in dry and wet environments.

Reliable Performance

Standardized, modular design with either IP54 or IP65 rating. A variety of mechanical and software options support individual requirements.

Intuitive Operation

A robust 7 inch color touchscreen offers intuitive operation in 30 languages.

Machine messages are communicated as clear text.

Quick and Easy Installation

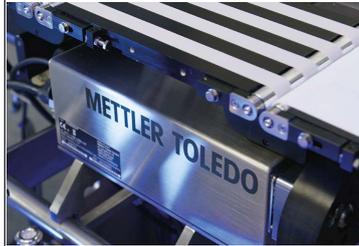
Pre-configured machine height, conveyor length, recipe memory as well as weighing limits and tolerances support easy installation of the system.

Conveyor Types



Choose from a range of application specific conveyor types. From IP54 conveyors for dry applications to IP65 conveyors for wet applications.

Weighing Technology



The high performance EMFR load cell with FlashCell™ technology delivers exceptional accuracy at high throughputs. Optional Measurement Instruments Directive (MID) certification helps to comply with local weighing regulations and reduces costly product waste.

Control Options



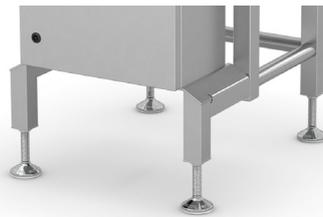
Different control and monitoring options supporting line efficiency and quality, e.g. pressure monitoring, reject verification or line back up detection.

Data Governance



Over 10 different interface / protocols including Ethernet, Fieldbus and OPC technologies enable IoT / Industry 4.0 initiatives. Production data can be accessed, analyzed and controlled anytime and anywhere.

Easy to Clean



With only four feet on the floor, the system provides easy cleaning access whilst design aspects such as sloped surfaces prevent product retention.

Global Service Support



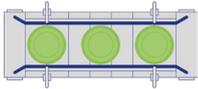
A global network of service experts provide fast remote and on-site support. Our comprehensive service supports regulatory compliance, high performance, and maximum uptime throughout the lifecycle of your product inspection equipment.

Product Handling Options

Achieve maximum process and equipment efficiency through transition, transport, stability and sorting options for any packaging format:

- With the small 29 mm roller diameter, the C31 is suitable for nearly all standard applications
- Guide rails can stabilize the product transport and align the orientation to optimize the weighing process

Example:



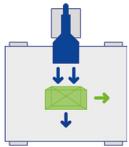
Guide rails

Sorting Options

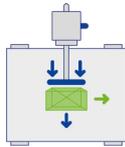
With a wide range of product sorting options and reject devices, regardless of your process challenges, our checkweighing sorting systems are able to handle all packed or unpacked products:

- The sorting device selection between airjet, pusher and swing gate helps achieve a reliable rejection
- The sorting direction can vary by the different sorting devices between front / rear, drop down or multi-lane, depending on customer requirements and lane layout

Examples:



Airjet rejector



Pusher



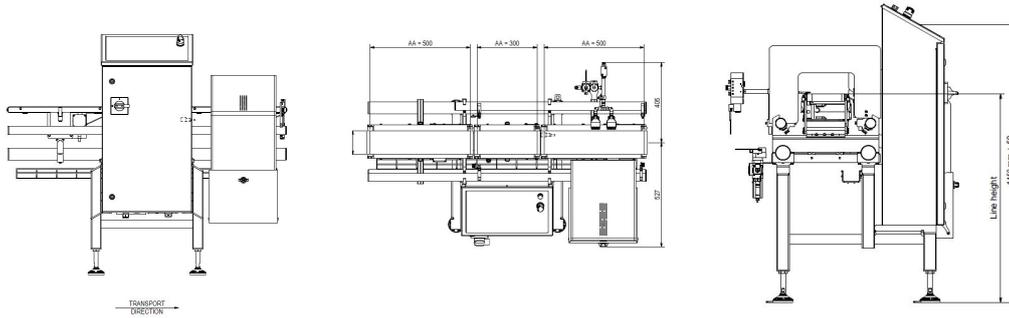
Swing gate

Software Options

- Extensive reporting functions (e.g. statistical and counter reports)
- The filling machine control by the checkweigher optimizes the fill level and reduces costly giveaway
- Interface to the METTLER TOLEDO ProdX™ data management software for remote access and enhanced insight in production processes for all METTLER TOLEDO Product Inspection devices on the production line
- Ready for Industry 4.0 via OPC UA and Fieldbus integration

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Typical dimensions in mm (A-A, B-B vary depending on conveyor size)

Technical Details	C31 StandardLine
Weighing terminal (HMI)	7 inch color touchscreen
Weighing range*	20 g - 6,000 g
Weighing technology	Strain gauge load cell load cell
Approval	Weights & Measures design approval for official verification (MID certifiable)
Accuracy**	from ± 0.5 g (500 mg)
Throughput**	max. 200 ppm
Infeed/outfeed conveyor length (A-A) range***	250 - 1,800 mm (distance between roller centers)
Infeed/outfeed conveyor width (B-B) range****	120 - 400 mm
Weighing conveyor length (A-A) range***	250 - 600 mm (distance between roller centers)
Weighing conveyor width (B-B) range****	120 - 400 mm
Line Height (LH), other heights on enquiry	550 - 1,100 mm (± 50 mm)
Product (article) setup memory	for up to 100 products
Classification	in 3 weight zones
Power supply (with lockable mains disconnect)	110/230 VAC, single-phase, 50/60 Hz, 750 VA - 1 kVA
Compressed air supply	approx. 6 bars (87 p.s.i.)
Environment	IP54, optional IP65 (water protected)

* 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

*** A-A means distance between roller centers

**** B-B means conveyor belt width

Combination solutions with:



Metal Detection



Mettler-Toledo Group

Product Inspection Division

Local contact: www.mt.com/contacts



Subject to technical changes.

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www.mt.com/checkweighing

For more information