

EC-M

Mid-range
Applications



Competence in dynamic weighing.

A Wipotec Brand

OS
CHECKWEIGHERS

Precision for the mid-speed-range

The EC-M is ideally suitable for demanding checkweighing i.e. control tasks. This model closes the gap to the basic model EC-S-MB and covers the entire mid-performance range. It does not matter whether you would like to check for the current nominal weight; or whether you would like to perform a completeness check of bundles, or whether you would like to sort or classify, the EC-M will offer an adequate solution.

The solid stainless steel base frame permits high weighing precision at medium and high belt speeds i.e. flow-rates.

The light-weight, patented conveyor belt systems and the carefully tuned drive system ensure a smooth operation as well as a fast and safe transport of products. Individually modified solutions for varying product geometries and shapes can be realised. Quick-change clamping devices on conveyors and belts allow for an easy exchange without tools.

A sophisticated and wide spectrum of sorting devices (pusher, nozzle, flap belt, etc.) are available to discharge products with incorrect weight reliably and without disturbing the ongoing production.

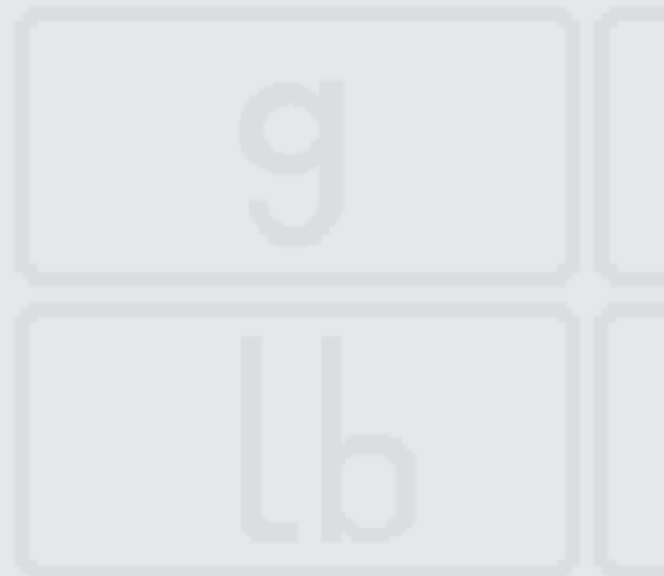
Checkweighers of the EC-M series are based on a microcontroller. The operation is menu-driven via a monochrome touch screen. **Graphic user interfaces** facilitate the setting and adjustment of the scale to the various products and requirements.

Unauthorized access i.e. modifications and manipulations are prevented by the password protected access to the individual checkweigher functions and parameter settings, which are divided into four **user groups.**

Optionally, the local operation via touch screen can be locked.

The factory setting of the EC-M is stored and can be downloaded at any given time. This feature will provide the security of a well defined operation condition when needed.

The EC-M operation and machine-management can be set menu-driven from grams (g) to kilograms (kg), ounces (oz) or pound (lb). The checkweigher will subsequently operate in the selected unit of weight.



Combinable diversity custom fit for your applications

EC-M

A variety of options enable you to design a checkweigher exactly for your application.

The EC-M checkweigher is equipped with a mean value control. This feature allows the control of automated filling machines. It is a valuable tool to reduce and/or eliminate inefficient overfilling. The production tendency can be represented.

When integrated in a machine pool, the EC-M can be started remote-controlled using the line synchronisation of a higher line control.

For the "worst-case-scenario" the EC-M is equipped with an emergency operation function, which resets the checkweigher to "product transport with the speed selected last". The current production will continue without interruption; the weight check can be performed later.

By the integration of additional safety components all drives as well as the pneumatics can be operated off circuit (optional feature).



In order to ensure that products which are not legal for trade are not processed, a rejection verification is available for the EC-M. A photo sensor which is located behind the sorting device monitors the actual product flow and, if necessary, stops the belts immediately.

OCS Checkweighers GmbH are certified in accordance with DIN ISO 9001-2000. Our checkweighers are distinguished by their precision and reliability. They were designed and manufactured for a long-lasting and continuous operation.

It almost speaks for itself that due to the vast component kit, the EC-M can be easily adapted to modified applications.

Please find an overview of all possible options on the following pages.

kg

oz

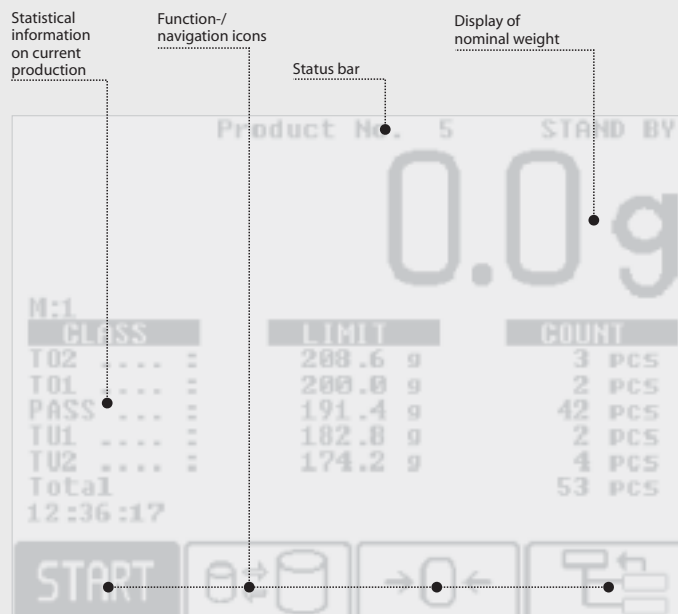
Comprehensive practical experience are the foundation of the EC-M power spectrum

Standard equipment

- ➔ Reliable checkweigher for medium and higher speeds:
 - 100 % production monitoring according to Net content i. e. E-merk
 - rejection of products with weight shortages at high selectivity
- Production documentation
- Total i. e. intermediate statistics selectable by piece, hours or minutes
- Complete unit encased in stainless steel housing with infeed-, weighing- and outfeed belts as well as sorting device
- Certified for several countries
- Legal for trade
- Various weighing ranges
- Various weight ranges for classing
- Memory for 50 product parameters
- Simple, menu-driven operation via touch screen
- Selectable menu language (D, GB, F, one complimentary language*)
- 4 password-protected user levels
- Various working height ranges
- Simple exchange of belts i. e. conveyors without tools
- Maintenance-free drive units
- High output
- Flexible integration into existing production lines
- Line synchronisation with isolated I/O-signals
 - remote start (input)
 - weighing mode (output)
 - error (output)
- Variable belt widths and belt lengths in grid dimensions

Electrical options

- ➔ Memory expansion product parameter memory
- Separately installed operation terminal
- Separate display/operating unit (RCTerm, 4.7")
- Remote control for remote maintenance
- Numerical remote display
- Control of an additional transport motor
- Visual classifying-/sorting signal (triple)
- Signal lamp (basic)
- Audio signal (external)
- Isolated I/O-signals
- External error input (isolated)
- Lockable touch screen (isolated input)
- Emergency stop
- Pressure watch dog



Mechanical options

- Various application-related transport systems (e. g. NT17, NT46, VA30WA, SL60/SL80)
- Base frame in special heights available
- Belt for metal detector
- Combination base frame for e. g. metal detector
- Separately installed conveyor belts
- Knife-blade flange (with rollers)
- Transfer sheets
- Multi-sorting
- Rejection bin (lockable)

Product handling options

- Lateral guide rails
- Acceleration lateral guide belts (overhead conveyor), vertical and horizontal clearance variable
- Various sorting devices (blast nozzle, pneumatic pusher, flap, guide, etc.)
- Rejection verification check

Control technology options

- Mean value control
- Serial error recognition

Weighing technology options

- Dead load adjusted interference compensation
- Full weighing belt cover (available with and without flap)

Data management options

- APS statistics package for proof of the Net content (FPVO conformity), optionally with:
 - integrated thermal printer
 - integrated smartfile-system
 - external, Centronics-printer, provided by customer
- Prepared for network integration:
 - Single nominal weight transfer via interface: RS 232c, RS 422, RS 485, TTY (current loop)
 - Ethernet
 - ComScale NT



smartfile

Flexible answers to meet your requirements

The basic model of the EC-M covers an extraordinary wide and versatile spectrum of applications. This versatility is supplemented by the selectable options.

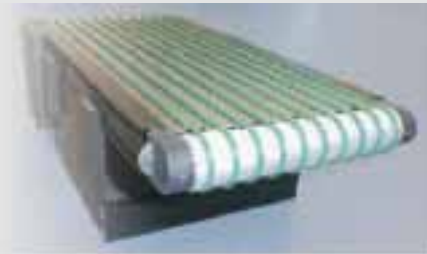
Our sales department will be glad to offer you a checkweigher according to your requirements and specifications. We will also assist you in obtaining the ideal configuration of your checkweigher.

Our trained qualified staff and service personnel support you efficiently with the assembly and set-up of the machine at your production site. Orientation courses for the easy operation and handling of the checkweigher are also available for your personnel.

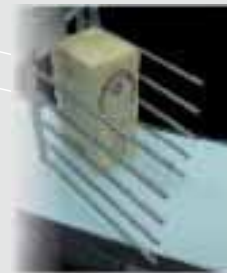
If desired, we also offer a yearly preventive maintenance inspection and prepare the checkweigher for calibration.



Lateral guide conveyor



NT30 with single belts



Sorting gate with parallel guide



Closable catch container
Optional level check



EC - M - Mi

This unit was designed for the high-precision weighing of small parts and products in the milligram range.
(Transport system NT17 with knife-edge)



EC - M - VA

This version is suitable for wash down applications with specially designed conveyors and drives for the use in medium-wet applications.
(Transport system VA30WA)



The EC-M application versions shown on this page can be combined with the HC-control as well.

EC - M - NH

Hygiene-compatible construction, special stainless steel casing for wet environment, suitable for steam cleaning as well as jet stream cleaning.
(Transport system NH30)



EC - M - SL

EC - M - HD

Designed for heavy loads and equipped with sturdy conveyor suitable for high transport speeds; used in the industry and logistics sector.
(Transport system SL60, SL80)



OCS checkweighers cover all areas of weighing technology and provide solutions for every task in the industrial sector

HC-Series

High-performance checkweighers for high-end applications



EC-M-Series

Standard checkweighers for mid-range applications



EC-S-MB

Entry level checkweighers for standard applications



Close to you with our worldwide service and sales network

A Wipotec Brand



CHECKWEIGHERS