

HC<sup>M</sup>

MEDIUM



THE ART OF WEIGHING

**os**  
CHECKWEIGHERS



# PRECISION IN THE AVERAGE SPEED RANGE

The HC-M, with a specification set between our EC-E and HC-A models, is ideally suited for demanding and mid-range checkweighing applications. The operator interface is consistent across the range, user friendly and menu driven via a 10.4" TFT display.

Whether you wish to check for the current nominal weight, perform a completeness check of a package, or classifying in to different weight zones. The HC-M is right for you.

The robust stainless steel frame ensures higher weighing accuracies at both medium and higher conveyor speeds.

The lightweight, patented conveyor belt system and the carefully tuned drive system ensure a smooth operation as well as a fast and safe transport of products.

Individually tailored solutions for varying product geometries and shapes can be realised.

The integrated Wipotec high-tech Weigh Cell, which works according to the principle of Electro Magnetic Force Restoration (EMFR), is revolutionary.

EMFR Weigh Cells provide an unequalled level in terms of reliability, precision and repeatability and help to avoid over fills.

A sophisticated and wide spectrum of sorting devices (pusher, air blast, flap conveyor, sorting device, etc.) are available to reject products with incorrect weight reliably and without disturbing production.

OCS Checkweighers GmbH has been certified according to DIN EN ISO 9001.



Main screen



Article menu



Graphic Mean Value signal course



Graphic Histogramm



Alphanumeric data input

# GENEROUS – ALREADY IN THE BASIC EQUIPMENT

# HC<sup>M</sup>

Reliable checkweigher for medium and higher speeds:

- 100% production monitoring according to Net content i.e. E-mark
- The accurate rejection of products with tight tolerances

Stainless steel frame and housing with infeed, weighing and outfeed conveyors (NT30) and air blast reject unit

Maintenance-free drive units (servo technology)

Certified (MID)

Weigh Cell with EMFR technology (Electro Magnetic Force Restoration); automatic measuring time determination

Various weighing ranges

Various weight ranges for classification

Comprehensive, menu-driven operation via 10.4" colour TFT display with touch screen

Selectable menu language DE, EN, ES, FR, IT (standard); additional languages according to availability

Memory for 100 product parameters (PPS)

4 password-protected user levels

Various working height ranges

Tool-less belt change

Output max. 250 pieces/min.  
(depends on application data)

Flexible integration into existing production lines

Line synchronisation with potential-free I/O-signals (optional expandable to 8 in- and outputs)

- Input Automatic
- Output Bringer release
- Output Error

Various conveyor widths and lengths available

Comprehensive statistic functions/histograms for production documentation



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# OPTIONS FOR THE ADVANCED USE

## ↓ Mechanical options

- Various conveyor lengths and widths
- Free standing transport conveyor
- Various, application-related transport systems (e.g. NT17, NT46, VA30WA, SL60/SL80)
- Combination base frame for e.g. metal detector
- Metal detector conveyor
- Special working heights
- Supporting leg

## ↓ Statistic options

- USB stick
- Individual weight data transmission
- ComScale NT
- Thermal paper printer
- Available electrical data interfaces (Ethernet, RS 232, RS 422, RS 485, TTY)
- XML data interface
- OPC data interface
- Connection to FreeWeigh.Net

## ↓ Sorting options

- Multiple sorting
- Various sorting devices (air blast, pneumatic pusher, flap, guide, etc.)
- Rejection bin, lockable
- Rejection chute made of stainless steel (V2A/AISI 304)

## ↓ Product handling options

- Lateral side guides
- Knife edges (with rollers)
- Transition plates between conveyors
- Acceleration conveyor (top-bottom conveyor), vertical and horizontal clearance adjustable
- Lateral side grip conveyors, vertical and horizontal clearance adjustable





## ↓ Pharmaceutical options

- IQ/OQ Light (standardised form)
- Extended event log

## ↓ Control functions

- Mean Value Regulation (MVR for max. two filling heads)
- Remote Control for remote maintenance

## ↓ Electrical options

- Single light stack
- Triple light stack
- Signal horn
- Expansion product parameter memory (PPS) up to 200/400
- Control of max. 5 transport motors
- Control of a frequency converter (analogue speed setting)
- Numerical remote display
- Potential-free input "Disable touch screen"
- Additional potential-free inputs and/or outputs
- Data backup/restore

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## ↓ Check and safety options

- Consecutive error recognition
- Product flow control
- Air pressure monitoring
- Various emergency stop circuits
- Potential-free input "Fast stop"
- Fill level sensor for rejection bin
- Potential-free input "External error"
- Additional product inspections, e.g. product open flap detection, sloping position monitoring
- Sensor monitoring

## ↓ Weighing/application options

- Full cover for weighing section to protect from air draughts
- Legal for trade design
- Initial MID verification

# WASH DOWN DESIGN IP 69K

# HC-M-WD

Checkweigher for frequent and intensive cleaning regimes.

The HC-WD conforms to both HACCP and FDA design criteria and is compatible with IFS product monitoring. Based on the famous reputation for speed and accuracy, this checkweigher has been specifically developed for frequent and intensive cleaning regimes to comply with the stringent hygiene requirements demanded by the food industry.

Rounded edges and sloping surfaces, coupled with an open construction makes cleaning and inspection easy.

When the cleaning mode (optional) is activated, the Weigh Cell and all sensors are deactivated. The transport conveyors turn at a predetermined speed and limited torque and thus make it possible to clean without causing damage. During the cleaning mode, production is not possible. Simultaneously, the duration of the activated cleaning mode is registered in the HC-M-WD logfile with date and time stamp.

## ↓ Machine features HC-M-WD

- Sturdy, high mass stainless steel frame and complete unit encased within stainless steel housing
- Maintenance free, IP 69K stainless steel encapsulated servo drives
- IP 69K light barriers for product detection
- IP 69K stainless steel Weigh Cell, various weight ranges available
- Piezo controls (IP 69K)



**FDA:**  
Food and Drug Administration

**HACCP:**  
Hazard Analysis and Critical  
Control Point

**IFS:**  
International Food Standard



# STAINLESS STEEL DESIGN IP 65

Full stainless steel construction as standard.

# HC-M-VA

The HC-M-VA is characterised through a complete stainless steel construction. Consciously, there is no use of other materials in the product area. The HC-M-VA is ideally suited for use in light and medium damp room production areas where an IP 65 specification is required. The machine components Weigh Cell, drives and conveyor construction are made of stainless steel. Additional stainless steel options complete the hygienic package in a perfect way.

## Machine features HC-M-VA

- Stainless steel design IP 65  
(Damp room design, wet cleaning)
- Constructed from stainless steel, Weigh Cell with secondary protection cover, stainless steel drives, stainless steel conveyor construction (VA30WA)



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# SPACE-SAVING COMBINATION

Checkweigher with integrated metal detector.

## HC-M-MDi

HC-M-MDi means checkweigher and metal detector in one unit, not only in the function but also in the space needed.

The simple menu-guided operation of the whole system is done centrally via the control of the checkweigher. This means management of the production parameters, recording and production statistics from one single terminal. All standard performance features (e.g. product replacement, compensation of the product effect, checking of the Net content in packages etc.) are of course also available in the OCS Twin-Inspection system.

### Machine features HC-M-MDi

- Compact design
- Central operation
- "2 in 1" for absolute control
- Separate sorting of metal/weight
- Comprehensive ISO-functions
- Centralised production statistic
- Conveyors in stainless steel (VA30WA) available (optional)





# COMMUNICATION – THE MOST IMPORTANT

Various interfaces for modern data linkage.

Effective data management is an important topic in modern industrial production. It is crucial to have production data available punctually and reliably and to be able to retrieve them flexibly via various data links. The HC-M checkweigher offers various services in data communication.



## USB (Universal Serial Bus)

The USB interface in the HC-M checkweigher provides the following services/functions:

- Storing print-outs (statistics, parameters, spot checks, log files etc.)
- Carrying out backup/restore via USB



## ComScale NT

ComScale NT is the central, database supported networking system for OCS products.

Further information can be obtained from our detailed → [ComScale NT brochure](#)

## XML (Extensible Markup Language)

XML is an event-oriented, bi-directional data interface on the basis of XML-telegrams.

It is suitable for the exchange of information/data between various applications.

The XML interface in the HC-M checkweigher provides the following services/functions:

- Sending spontaneous messages (status changes, parameter changes, article changes, error messages, warnings)
- General services: reading machine status/change user language/reading error status/reset errors/access control (Access Grant/Request Access)
- Statistical services: reading current statistics/reset statistics/transfer of single values
- Article services: perform article changeover/read article parameters/set article parameters

## OPC (OLE for Process Control)

OPC is a standardised interface for access to process data. OPC is used where data and controls of different manufacturers form a common network.

The OPC data interface of the HC-M checkweigher is configured specific to each machine order and provides the following services/functions:

- Binary I/O functions for reading in/output of binary machine signals
- General services: reading machine status/error status/reset errors/access control
- Statistical services: reading current statistics/reset statistics
- Article services: perform article changeover/read article parameters/set article parameters

## Ethernet/IP (Ethernet Industrial Protocol)

Ethernet/IP is a field bus based on Ethernet. Data exchange is effected via an Ethernet interface.

The Ethernet/IP interface of the HC-M checkweigher provides the following services/functions:

- Binary I/O functions for reading in/output of binary machine signals
- General services: reading machine status/error status/reset errors/access control
- Statistical services: reading current statistics/reset statistics/transferring single values
- Article services: perform article changeover/read article parameters/set article parameters

HC-A Checkweigher system  
for comprehensive applications

A



HC-M Checkweigher family  
for advanced applications

M



EC-E Checkweigher for  
basic applications

E

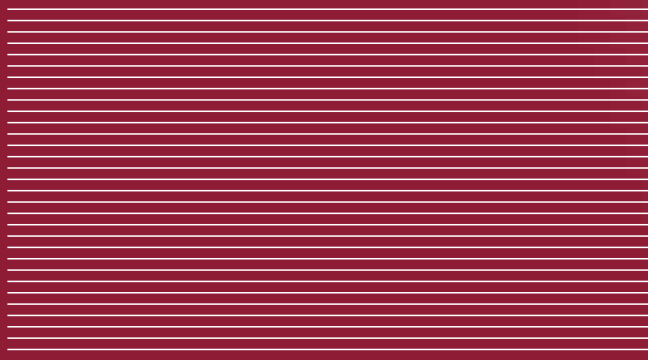


OCS Checkweighers GmbH  
Adam-Hoffmann-Str. 26  
67657 Kaiserslautern  
Germany  
T +49.631.34146-0  
F +49.631.34146-8690  
info.ww@ocs-cw.com  
www.ocs-cw.com



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