



## MR821 checkweighers

Leading-edge in performance,  
technology and reliability



**MULTIVAC**  
MARKING & INSPECTION

# MULTIVAC checkweighers

For use in all production areas



## Standard and High Definition

The automatic MULTIVAC checkweighers in the series are available in two basic designs optimized for different requirements. For maximum performance and precision, the same high-quality weighing technology is used in both versions.

- The **Standard** version is equipped with a large keypad and a very clear dot-matrix display and is available with two weighing ranges up to 3000 g nominal weight.
- The **High Definition** version, with its large touch screen display and a wide range of functions, offers greater operator comfort and is available in four weighing ranges from 3 g to 5000 g. It also provides greater flexibility in mechanical structure and additional options such as an integrated metal detector.

## Automatic - Better - Integrated

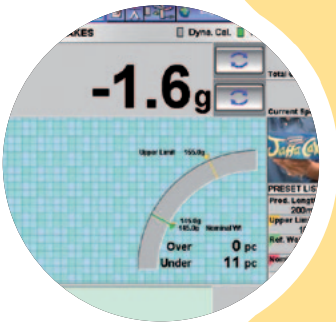
MULTIVAC checkweighers offers you:

- Confidence that your products are always weight-compliant
- Increased profitability for your lines
- State-of-the-art technology delivering optimum performance and value
- Consistent availability through robust, reliable design
- Low maintenance costs
- Perfect integration into all MULTIVAC packaging lines
- The data management software MR-DCS (optional) for networking up to 100 MULTIVAC checkweighers offers a wide range of possibilities for analyzing and monitoring production lines to improve efficiency



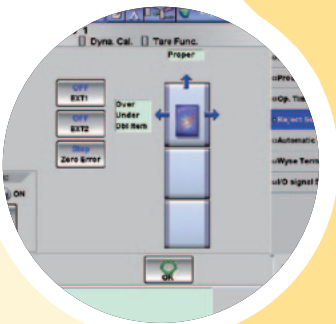
## Easy operation - Highly cost effective

- The clearly organized user interface on the 12" color touch screen makes learning to use, operate and monitor the MULTIVAC checkweighers easy
- Even non-technical employees can operate a checkweigher reliably and confidently with minimal training
- Unique programming support with product photos in the integrated camera
- The combi-checker's metal detectors are fully integrated into the weigher's user interface



## Quick cleaning - Reliable operation

- Conveyor belts that can be removed without tools and the easily accessible stainless steel structure with smooth contours make cleaning quick and easy
- The MULTIVAC checkweighers have light conveyor belts, direct drive motors and low-friction belts. For this reason they are among the quickest, most precise and most cost-effective checkweighers in their class
- Wear-resistant drive technology for consistent, reliable performance
- Minimal downtime due to quick product change and modular design



# MULTIVAC checkweighers

## Technical data

### Great versatility – Flexible in application

- A wide spectrum of conveyor belt configurations is available for optimum product handling and maximum output
- A variety of interfaces with data capture systems in combination with multi-head weighers and other equipment for optimal line performance
- Combi-checker with customized metal detectors
- Multi-track versions available

### Outstanding technology – Maximum precision

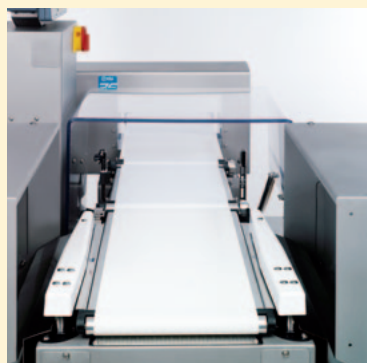
- The MULTIVAC checkweighers works with a high-speed load cell that was designed especially for use in dynamic checkweighers
- To guarantee optimum performance, the MULTIVAC checkweighers has a “DSP” chip (DSP – Digital Signal Processing). This ensures precise signal processing in a wide variety of weighing and environmental conditions
- The patented AFV system for compensation for floor vibration (AFV – Anti Floor Vibration) reduces environmental influences to almost zero, improving the profitability of your line

Series MULTIVAC checkweighers		Standard	
		CW1200	CW3000
Enclosure class		IP54	
Max. product length		420 mm	500 mm
Weighing range (*)		10 - 1200 g	30 - 3000 g
Output (*) (**)		280 packs/min	
Accuracy		from ± 20 mg	± 1000 mg
Product range		100	
Control panel		Keyboard, electroluminescent display	
Printer		Optional	
Conveyor belts	Weigh conveyor	450 mm	545 mm
	alternatively	350 mm	445 mm
	Reject conveyor	from 450 mm	from 550 mm
	Belt width	220 mm	300 mm
	Optional		
Weighing technology	Transport height		
	DPS - Digital Signal Processing		•
	Zero point setting		
	AFV - Vibration filter		•
Stainless steel design (1.4301/ANSI 304)	Multi-track weighers		
	Rejector		Air jet or swivel arm
	Metal detector		Separate framework
	Optional feedback control		•
	Interfaces		
	Approvals		
	Ambient temperature		

(\*) depending on local weights and measures regulations

(\*\*) Max. guide value, depending on product shape, line condition and condition of the packaging

(\*\*\*) Others by request



High Definition							
CW301-HD	CW302-HD	CW1201-HD	CW1202-HD	CW3001-HD	CW3002-HD	CW5001-HD	CW5001-HD
IP54	IP65	IP54	IP65	IP54	IP65	IP54	IP65
310 mm		420 mm		500 mm		500 mm	
3 - 300 g		10 - 1200 g		30 - 3000 g		50 - 5000 g	
280 packs/min		240 packs/min		160 packs/min		160 packs/min	
± 200 mg	± 700 mg	± 200 mg	± 700 mg	± 1000 mg	± 2000 mg	± 2000 mg	± 3000 mg
100 with product photo							
12" (307 mm) color touchscreen							
Standard, tape printer							
350 mm	345 mm	450 mm	445 mm	545 mm	540 mm	545 mm	540 mm
		350, 545 mm		450 mm	445 mm		
from 450 mm		from 450 mm		from 750 mm		from 850 mm	
150 mm		220 mm		300 mm		370 mm	
220 mm		150, 300 mm		220 mm		300 mm	
850 +/- 50mm (optional: 700 - 1000 ± 50 mm)							
Double beam load cell							
•		•		•		•	
continuous automatic dynamic compensation							
•		•		•		•	
•		•		•		•	
Standard: air jet, swivel arm (optional: pusher, arm, drop-belt, double drop-belt)							
On the infeed conveyor, operation integrated into the user interface							
•		•		•		•	
Data storage on a CF card (optional: Ethernet or Profibus interface) ***							
OIML R51/1996-NL1-05.02 rev.1							
-5 - +40 °C							

## Technology

- OIML R51 approval
- Printer included
- CF card for universal storage
- Optional trend control (feedback control)
- No tools required for conveyor change
- Modular/component design principle
- Variety of rejector options, including bins and electronic reject confirmation

# MULTIVAC checkweighers

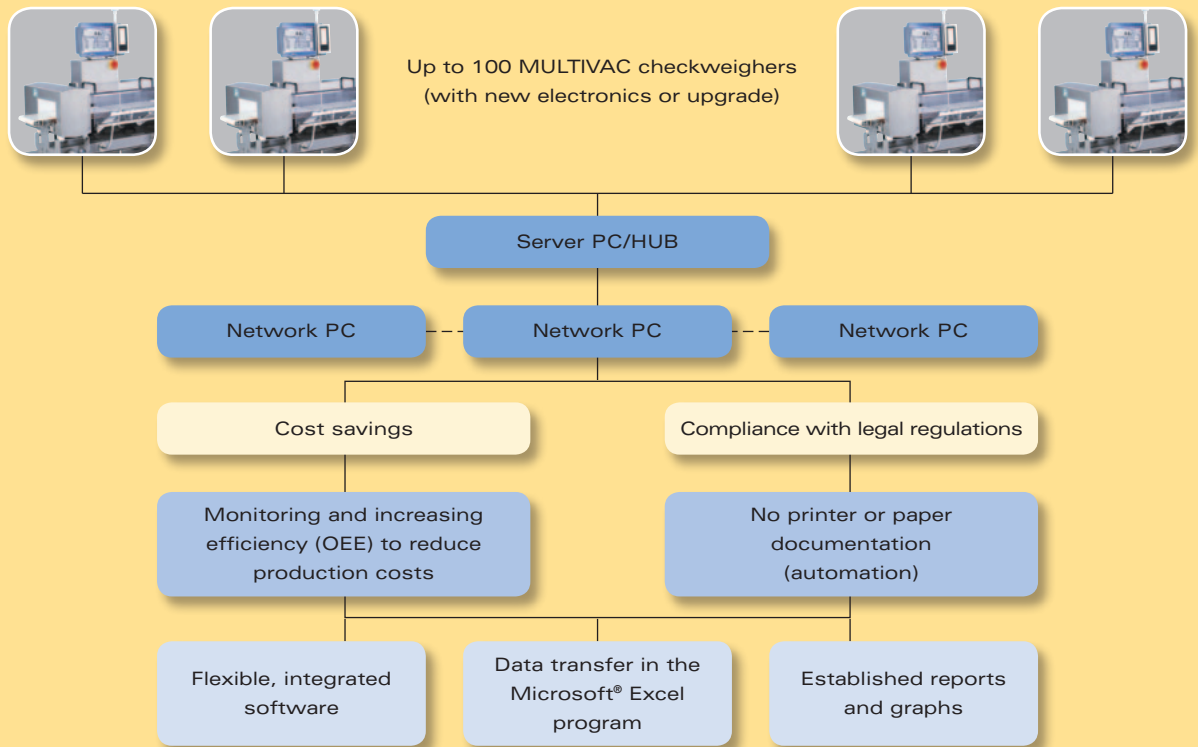
For all line layouts



## Metal detectors

As an option, metal detectors optimized for maximum sensitivity are available for the checkweigher's infeed conveyor.

- The user interface is fully integrated into the checkweigher's operating menu (HD models)
- The detectors have the highest sensitivity with regard to all magnetic and non-magnetic metals, including high-alloyed stainless steels
- Digital signal processing with automatic compensation for product effects and auto-tracking  
Greatest possible immunity to environmental noises
- Optional auto-learning of all product parameters, detector frequency included
- Separate rejector channel for separate discharge of products that are not the correct weight or are contaminated
- Stainless steel design, enclosure class IP65



### MR-DCS – Data capture system for optimizing production

The MR-DCS system captures the data for each individual package and saves it in a database.

- MR-DCS can be networked with up to 100 MULTIVAC checkweighers using Ethernet
- Reliable and fail-safe operation with weighing data automatically saved in the checkweigher interface
- With MR-DCS, you can monitor line efficiency (OEE) and production data in addition to statistical weighing data
- Numerous reporting options for monitoring OEE (Overall Equipment Efficiency): product batch, shift, operator, product or machine
- Can be adapted individually with regard to graphic display and type of report (production, histogram, downtime, OEE)
- Data export in spreadsheet calculation
- Includes trend control

## Service

Our committed team of application specialists and customer service engineers supports you in optimizing your equipment based on your individual requirements.



[www.multivac.com](http://www.multivac.com)