



CMV Combination

Effective 3-in-1 Inspection Solution



CMV Combination

This powerful critical control point delivers metal detection, weight control and label inspection in one, fully integrated and space saving device. With full configuration flexibility, this system can be designed to match your application needs.

Configuration Flexibility

Choose your system components from a range of metal detectors, checkweighers and label inspection systems to exactly fit to your application needs.

Reduced Total Cost of Ownership

Benefit from a single provider to deliver configuration support, training and service for three technologies, reducing time, cost and downtime.

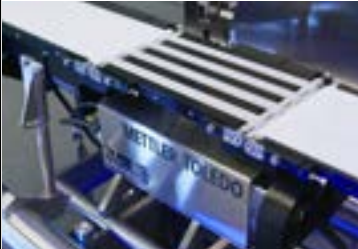
Space-Saving Design

This solution maximizes production space and enables easy cleaning and maintenance access for increased efficiency.

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Technical Specifications

Checkweighing



The C-Series checkweighers offer precision weighing for 100% weight control at production speeds of up to 500 ppm in a combination system with FlashCell™ EMFR technology. Achieve maximum process stability and equipment efficiency with a large selection of shared transition, transport and sorting options for any packaging format.

- **C33 PlusLine Checkweigher**
Flexible mid-level checkweigher for standard weighing applications
- **C35 AdvancedLine Checkweigher**
High-performance checkweigher suitable for challenging weighing applications

Vision Inspection



The automated vision inspection systems deliver 100% label data and quality control early in the production process to help prevent product recalls related to mislabeling or undeclared allergens. Plus, verify product packaging meets high-quality brand standards by catching any tears, wrinkles or misprints early in production.

- **V11 Label Inspection**
Choose up to four Smart Cameras to inspect labels on front, back or top of oriented packages
- **V13 Flat Pack Label Inspection**
Use a Line Scan Smart Camera for reliable bottom-up label inspection on flat packages
- **V15 Label Inspection 360°**
Compact enclosure holds six image sensors used to capture a full 360° view of round containers

Metal Detection



Our wide range of metal detection systems are capable of detecting very small contaminants such as bits of wire, metal slivers and swarf. As an integrated solution, they can be used to inspect products on the conveyor at front-end, in-process or end-of-line.

- **Profile LS Combi**
a compact solution for small-medium packed products
- **Profile R-Series**
optimized for dry products, with a choice of up to 3 built-in frequencies to enhance inspection flexibility
- **Profile RZ**
as above, but with a reduced metal free zone for installation in restricted space applications
- **Profile Advantage**
optimized for wet product applications, where products contain high moisture or salt content, or are wrapped in metalized film

Metal Detection*	Choose from the Profile LS, Profile, Profile RZ or Profile Advantage					
Checkweighing	C33 Checkweigher			C35 Checkweigher		
Label Inspection System**	V11	V13	V15	V11	V13	V15
Label Data Inspections	1D/2D Barcode, Alpha Numeric Text					
Label Quality Inspections	Label Wrinkles; Graphical ID; Label Placement; Label Skew					
Cap Inspection	Cap Color; Cap Skew; Cap Presence	—	Cap Color; Cap Skew; Cap Presence	Cap Color; Cap Skew; Cap Presence	—	Cap Color; Cap Skew; Cap Presence
Maximum Product Width	400 mm	400 mm	100 mm diameter	400 mm	400 mm	100 mm diameter
Inspection Area	Top; Side	Bottom	360° Side	Top; Side	Bottom	360° Side
Field of View	95 x 71 mm (default)	128 x 96 mm	110 x 83 mm; 120 x 90 mm	95 x 71 mm (default)	128 x 96 mm	110 x 83 mm; 120 x 90 mm
Package Type	Cartons, oval containers or any oriented package	Flat packs, cartons, clamshells	Round packages, bottles, jars and tubs	Cartons, oval containers or any oriented package	Flat packs, cartons, clamshells	Round packages, bottles, jars and tubs
HMI	12 inch color touchscreen			15 inch color touchscreen		
Weighing Range***	25 g - 7,000 g			3 g - 10,000 g		
Maximum Product Weight	7 kg			10 kg		
Weighing Technology	FlashCell™ EMFR load cell; Strain Gauge load cell			FlashCell™ EMFR load cell		
Accuracy****	from ±0.05 g (50 mg)			from ± 0.01 g (10 mg)		
Transport Height	550 mm - 1,100 mm (± 50 mm)			550 mm - 1,500 mm (± 50 mm)		
Throughput	300 ppm			500 ppm	300 ppm	500 ppm
Cleaning Requirement	Wipe Down (IP54); Low Pressure (IP65)			Wipe Down (IP54); Low Pressure (IP65)		

Each system is available with a 12 or 15 inch color touchscreen HMI and up to IP65 hygienic requirement rating.

* See next page for full range of Metal Detection options

**Choose one or more options from each Vision Inspection System to configure your system.

*** 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.

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Technical Specifications Continued

Checkweighing		Choose from the C33 or C35 checkweigher			
Label Inspection System		Choose from the V11, V13 or V15 vision system			
Metal Detection		Profile LS Combi	Profile	Profile RZ	Profile Advantage
Standard Aperture Sizes (mm)		Width Options: 200 - 400 (in 50's) Height Options: 100 - 300 (in 25's) 350 - 400 (in 50's)	Width Options: 200 - 300 (in 25's) 350 - 1300 (in 50's) Height Options: 100 - 300 (in 25's) 350 - 550 (in 50's)	Width Options: 200 - 300 (in 25's) 350 - 1300 (in 50's) Height Options: 100 - 300 (in 25's) 350 - 550 (in 50's)	Width Options: 200 - 300 (in 25's) 350 - 1000 (in 50's) Height Options: 100 - 300 (in 25's) 350 - 550 (in 50's)
Zero Metal Free Zone (ZMFZ)		Option	Option	Option	No
Metal Detector IP Rating	IP65 (Painted)	Yes	Option	Option	N/A
	IP65 (BB)	No	No	No	No
	IP65 (BR)	No	No	No	No
	IP66 (BB)	No	Option	Option	Option
	IP66 (BR)	No	N/A	N/A	No
	IP69K (BB)	Option	Option	Option	Option
	IP69K (BR)	No	N/A	N/A	Option
Relative Humidity		Maximum relative humidity: 93% for temperatures up to 45°C (113°F)			

Finish Types: BB = Bead Blast; BR = Brushed, SS = Stainless Steel

Choose from all of our combination solutions:



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CV Combination



CX Combination



CT Combination



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 PACKAGING AUTOMATION SPECIALISTS