

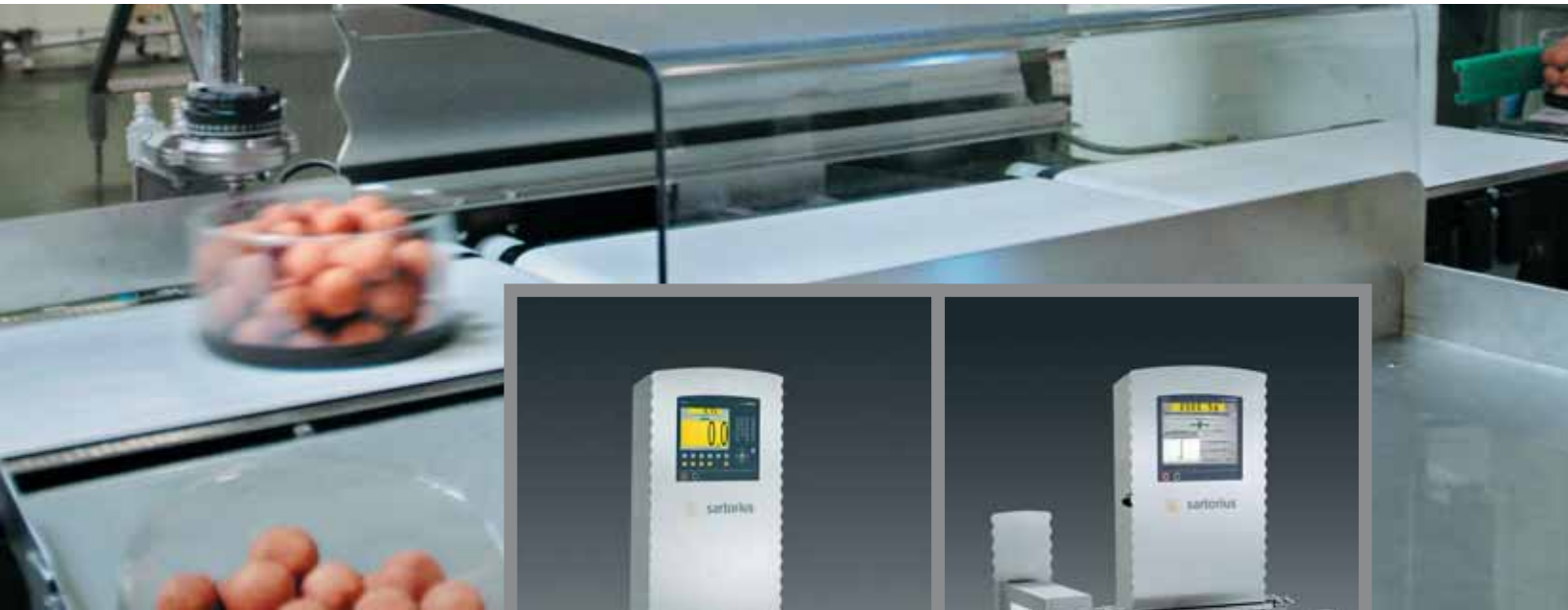
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For immediate assistance call
1-800-750-6842



Sartorius
SYNUS® | CoSYNUS

The new equation
for combined
process reliability



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Sartorius SYNUS® | CoSYNUS

Simply uniquely flexible

Seeing is believing, and once you have seen the new look in independent dynamic weighing and metal detection, you won't settle for less: Sartorius SYNUS®. The checkweighing system that adapts to your needs, and not the other way around!

Thanks to its unique design, you can tell at a glance that SYNUS® is different. Alongside established Sartorius checkweighers of the EWK generation, SYNUS® sets new standards – and, upgraded to CoSYNUS, in metal detection, too.

The future-directed conceptual design gives you maximum flexibility for integration into your production line. For example, you can adjust the conveyor height without making any investments. Even with all its flexible capabilities, SYNUS® maintains the high levels of weighing

accuracy, detection reliability, and the high throughput you rely on from Sartorius.

Let SYNUS® help you stay on the safe side and meet the industry requirements of today – and tomorrow. The system is modular through and through, for multi-faceted, application-specific options, from conveyor systems to weighing capacities and resolutions; from evaluation electronics to dimensions, plus a broad array of accessories.

Unique:

Turn your SYNUS® into a CoSYNUS:

- Replace the infeed belt
- Load new software

Done!





Sartorius SYNUS® | CoSYNUS

Your design for better cost-effectiveness



Maintenance-free

The sophistication of the basic design unites all SYNUS® models and ensures cost-effectiveness in more ways than one. In addition to the attractive purchase price, SYNUS® is economical thanks to its compatibility with each of the many available components.

Mechanical stability

SYNUS® models are available with various combinations of mechatronic features and evaluation electronics. One thing they all have in common: the characteristic form, reminiscent of the sine curve that the series is named for, permitting flexible but form-fit and friction locked attachment to the conveyor system. This guarantees a superior degree of mechanical stability with maximum flexibility.

Rugged

All SYNUS® models are distinguished by the monolithic electromagnetic force compensation (EMC) weigh cell from Sartorius, specially developed for dynamic checkweighers. Its most impressive features include the exceptionally high precision combined with extremely short stabilization times, unbeatable stability and rugged, industry-grade construction (IP protection rating: IP54; IP65 optional).

Hygienic

The design engineering of the cantilevered SYNUS® weighing and conveyor system makes it easy to replace belt and weighing tables, thanks to the belt's quick-unlock mechanism and flip-up, removable transport system. The advantages are clear: the system is easily cleanable, thus ensuring the best possible hygiene.

The conveyor is driven by maintenance-free 24V electronically commutated drive motors. Force transmission is implemented by drive belts.

Modular

A range of optional features is available to round out any SYNUS® model in the series. A polycarbonate touch guard can be added, for example, to protect the weighing facility from inadvertent contact and from drafts. The touch guard is particularly recommended for use in verifiable systems, or in other applications that require a low zone of indecision.

Airblast nozzle ejectors or pneumatic pushers can be installed on the outfeed belt. Optional features for control of customer-specific ejection and sorting mechanisms are also compatible.





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Sartorius SYNUS® | CoSYNUS

Combined process reliability



For evaluation, too, the SYNUS® family of electronics systems includes a broad range of features. Even the "smallest" model, SYNUS 6®, has a 6.4" color TFT flat-screen monitor and a generously proportioned keypad. SYNUS® 10 offers even more convenience in operation, with a 10.4" display. The top-of-the-line model, SYNUS® 15, has a 15" TFT touchscreen.

Twice as reliable

CoSYNUS, the newest model in the SYNUS® family, combines the electronics of a metal detector with our well-known checkweighing technology. Operation of the metal detector is fully integrated into the familiar user interface of the field-tested SYNUS® checkweigher. A single interface can be used to configure and control two machines quickly and easily, saving time and effort.

Modular

The combination of checkweigher and metal detector has been achieved with the twin goals of flexibility and user-friendliness in the foreground. Even after delivery, it is no problem to adjust the height and change the direction of conveyance. The combined SYNUS® version offers another advantage as well: When there is no floor-space to spare in production, a single CoSYNUS is the space-saving alternative to solutions with separate checkweigher and metal detector. Moreover, customers who already have a SYNUS® scale can upgrade to the CoSYNUS easily and economically. A wide variety of options and accessories, such as USB flash memory drive, remote display and operating unit, statistics programs, catchment containers, trend controllers, printers, and more, round off this family of products.

Economical

CoSYNUS offers of a clear price advantage as compared to two separate systems – not only are acquisition costs lower, but less equipment means fewer spare parts must be kept on hand. The innovative belt-changing mechanism reduces costly downtime to just a few seconds. Incomparable value for money!

CoSYNUS: simply install, detect and check.

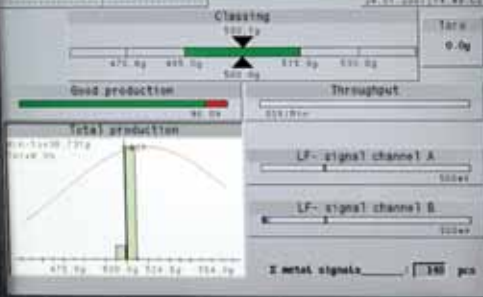


SYNUS 10

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B 0502.0g

PRODUCTION STATISTICS DISPLAY REPORT PRODUCT TYPE PARAMETERS



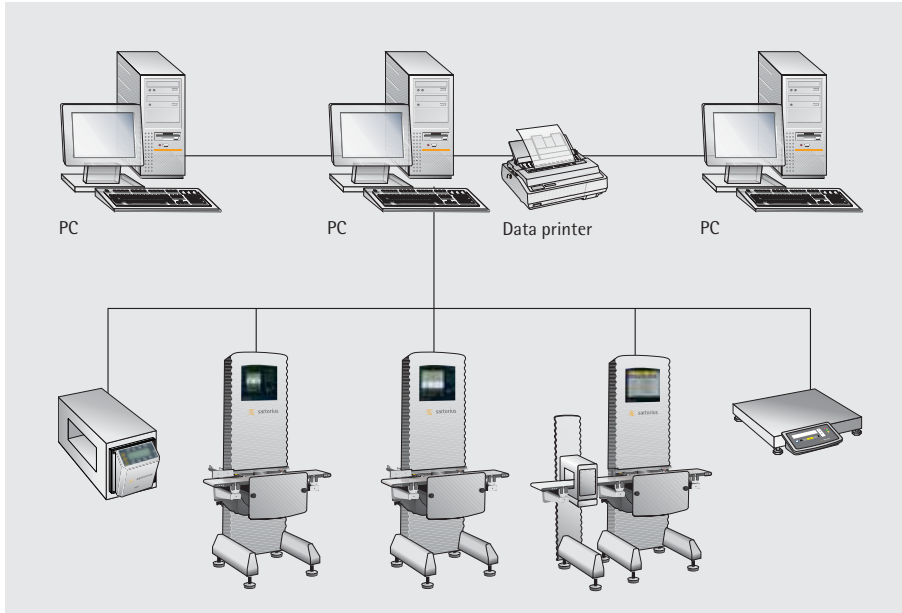
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Sartorius SYNUS® | CoSYNUS

Innovative in both documentation and process control



Integration in ProControl for Windows®, the QA Management System from Sartorius

Today, 100% traceable process documentation is indispensable. The SYNUS® system offers you a number of options for compliance with supply contracts, standards such as IFS, laws governing AWC, HACCP guidelines, FDA regulations, and the EU's Regulation No. 178/2002 on traceability.



Sartorius USBPrint

All SYNUS® models can be equipped with an easy-to-access, IP65-protected USB interface for digital data storage and processing without a network connection. Used with a commercially available USB flash drive, SYNUS® enables fast, easy and paper-free transfer of the data record saved in its internal memory. to any computer available on the market, for processing in any standard Web browser (such as Internet Explorer or Mozilla Firefox) and in MS Excel version 2003 or later. This means Sartorius USBPrint keeps consequential costs for qualified documentation very low, because in most cases, the required components are already in place. To prevent unauthorized data access, the SYNUS® archiving function can be password-protected. Source data is deleted only after successful transfer.

Sartorius ProControl@Inline: central monitoring and data storage

Everything under control, at all times

The computer gives you access to all connected checkweighers and lets you view process-related data at any time, on any workstation in the network.



Sartorius ProControl@Remote: individual remote control of checkweighers

A common language

Sartorius ProControl@Remote enables direct access to all checkweigher functions. This allows remote and unlimited operation of any checkweigher in the network.



Specifications

Weighing systems: WS 1 | 2 | 5 | 7 kg WZGP with SYNUS® evaluation electronics 6 | 10 | 15

	WS 1 kg WZGP	WS 2 kg WZGP	WS 5 kg WZGP	WS 7 kg WZGP
Weighing capacity	1000 g	2000	5000 g	7000 g
Smallest permissible verification scale	0.1	0.2	0.5 g	1 g
Throughput; depends on product, permissible zone of indecision and ambient conditions	Max. 300 units/min	Max. 200 units/min	Max. 180 units/min	Max. 180 units/min
Center-to-center distance	310 mm	300 mm 350 mm 400 mm 450 mm 500 mm		
Center-to-center distance, CoSYNUS Infeed belt	800 900 mm			
Belt width	40 mm 80 mm 120 mm 160 mm (IB / OB 150 mm)*	150 mm 200 mm 300 mm		
Roller diameter	IB 30, WB 22, OB 30 mm*	30 mm		
Transport medium	Circular belt or belt	Belt		
Conveyor direction	Right to left or left to right (indicate when placing order)			
Working height	600 to 1,100 mm (in 50-mm increments) Leg-adjusting range: ± 25 mm			
Floor clearance	100 mm (± 25 mm)			
IP protection	IP54 (standard feature); IP65 (optional upgrade)			
Machine safety	Meets the requirements of EC Directive 89/392/EEC (machinery); manufacturer's declaration in accordance with Appendix II B			

Dimensions + other specs: see Data Sheet

* IB = infeed belt; WB = weighing belt; OB = outfeed belt

Available coils for metal detection: MDP-S

Aperture width in mm	Aperture height in mm			
	50	90	125	150
225	•	•	•	•
275	•	•	•	•
375	•	•	•	•

SYNUS® | CoSYNUS 6 | 10 | 15 Evaluation Electronics

Standard Equipment	6	10	15
AISI 304 (1.4301) stainless steel housing, IP65 protection (incl. weigh cell)	•	•	•
6.4" flat-screen TFT color display and keypad	•		
10.4" flat-screen TFT color display and keypad		•	
15" TFT color touchscreen display			•
Weight readout: choice of gross, net or differential weight	•	•	•
Operational display, SYNUS®: distribution, yield, throughput, average value chart, large weight readout	•	•	•
Operational display, CoSYNUS: Distribution, yield, throughput, average value chart, large weight readout, low-frequency bar display, metal counter	•	•	•
Operating mode: classifying weigher with AWC evaluation / 3-way sorting or 4 user-definable class delimiters / 3-way or 5-way sorting	•	•	•
Batch operation	•	•	•
5-way classification	•	•	•
Pulse-controlled sorting	•	•	•
Automatic zero-setting	•	•	•
Statistics	•	•	•
Documentation	•	•	•
Product data memory for 200 products	•	•	•
Program-controlled belt speed	•	•	•
Inputs for "Hide weigher/detector" control signal, event counter	•	•	•
Self-monitoring function; error reports	•	•	•
Auxiliary functions: Ext. zeroing prompt, test pack, dialogs for diagnostics and service	•	•	•
Data stored in battery-backed memory	•	•	•
Choice of languages for program dialogs; user-selected	•	•	•
Optional upgrades	6	10	15
Documentation system using integrated printer (IP65-protected)	•	•	•
Documentation system for use with external printer	•	•	•
Trend controller with display	•	•	•
Approval for use in legal metrology	•	•	•
Multiple statistics		•	•
Multiple statistics with scanning unit		•	•
Interface for individual weight value output for external evaluation and connection to SQC system	•	•	•
Fieldbus interfaces: Profibus, DeviceNet	•	•	•
Data communication: Ethernet, TCP/IP, SPCfWin client, XML client/server	•	•	•
FDA 21 CFR Part 11		•	•
USBPrint	•	•	•
Check the completeness of packages with floating checkweighing and reject tolerance limits		•	•
5 classifying outputs with pulse output or signal maintaining logic for control of LEDs or external counters	•	•	•
Monitoring of average weight and repetitive rejections (only with 3-way sorting)	•	•	•
Way-pulse controlled sorting	•	•	•
Package length and distance monitoring	•	•	•
Rejection monitoring		•	•
Filling spout monitoring		•	•
Automatic sampling		•	•
Volume evaluation	•	•	•

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