WIPOTEC-OCS PERFECTLY MEETS THE REQUIREMENTS OF THE GLOBAL FOOD INDUSTRY THROUGH ITS STATE OF THE ART INSPECTION SOLUTIONS
X-RAY TECHNOLOGY FROM WIPOTEC-OCS: MODULAR DIVERSITY FOR BEST POSSIBLE PROCESS AND PRODUCT SAFETY

CONTENT

3 Advanced X-ray technology
Ensuring product safety and brand protection are our biggest priorities

4 WIPOTEC
All required expertise under one roof: globally respected, flexible, and innovative

6 The most advanced inspection systems
X-ray technology from WIPOTEC-OCS

7 Modular design
For maximal economy

MACHINE SYSTEMS

8 SC-E
High-tech X-ray scanner for professional detection of contaminants

10 SC-Series
Top performance with the greatest flexibility

12 SC-B
The most accurate inspection of bulk materials - the safety check for raw goods

14 SC-WD
Reliable product inspection in wet areas

16 SC-WD-B
Perfect product inspection of bulk goods in wet areas

18 SC-S
Compact and reliable inspection of standing products

20 SC-W
Twice as safe: X-ray scanner and checkweigher in combination

22 SC-V
X-ray and optical inspection in a compact unit

24 WIPOTEC-OCS image processing software
For maximal product and consumer safety

26 X-ray quality features
The advantages of WIPOTEC-OCS inspection systems

SERVICE

27 Reliable expert service
Our network of comprehensive know-how is on hand to support you worldwide

"X-ray scanners from WIPOTEC-OCS are a fixed element of our production processes, ensuring our customers of the highest standards of safety and products free of impurities."

Carlo Cotti and Marzio Tellini, Executive Managers at Liodry Foods, Gattatico, Italy
ADVANCED X-RAY TECHNOLOGY FROM WIPOTEC-OCS:
ENSURING PRODUCT SAFETY AND BRAND PROTECTION ARE OUR BIGGEST PRIORITIES

In the industrial manufacturing of products, quality must be given the highest priority in all production processes. Against the backdrop of utmost concern for customer safety, supplying defective goods can quickly result in fatal consequences. Recall actions are extremely costly and may irreparably damage your image as a reliable producer. Even worse are the health risks passed on to the consumer because defective products were shipped.

WIPOTEC-OCS INSPECTION SYSTEMS – GUARANTEE OF QUALITY

To ensure the shelves at the retailer do not become a safety risk, manufacturers need advanced and fully automated inspection systems that reliably and continuously guarantee quality without restricting productivity.

WIPOTEC-OCS is among the leading suppliers of comprehensive inspection systems worldwide. Our globally recognised cutting edge technology and our comprehensive product range of ultra-modern, high performance X-ray scanners give you the confidence of knowing you are in the best possible position in terms of quality assurance. Together with you, we create the foundation for sustained customer loyalty.

X-ray scanners from WIPOTEC-OCS support the efficient design of quality assurance systems on the basis of standards like HACCP, BRC, or IFS. These high-tech machines detect foreign bodies made of metal, glass, stone, and plastics of different densities while checking your products for completeness, correct form and fill quantities.

OVERVIEW X-RAY

<table>
<thead>
<tr>
<th>Machine type</th>
<th>Belt width</th>
<th>Option</th>
<th>Features</th>
</tr>
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<tbody>
<tr>
<td>SC-E</td>
<td>3000 / 4000</td>
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<td></td>
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<tr>
<td>SC</td>
<td>3000 / 4000 / 5000 / 6000</td>
<td></td>
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<tr>
<td>SC</td>
<td>3000 / 6000</td>
<td>B</td>
<td></td>
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<tr>
<td>SC</td>
<td>3000 / 4000 / 5000 / 6000</td>
<td>V</td>
<td></td>
</tr>
<tr>
<td>SC-WD</td>
<td>6000</td>
<td></td>
<td></td>
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<tr>
<td>SC-WD</td>
<td>6000</td>
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</tr>
<tr>
<td>SC-S</td>
<td>4000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SC-W</td>
<td>3000 / 4000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
WIPOTEC-OCS is a sales and service company for dynamic, high-precision weighing and inspection solutions. As a wholly-owned subsidiary of the high-tech specialist WIPOTEC, which develops and produces all machinery solutions at its headquarters in Kaiserslautern, WIPOTEC-OCS has been setting global standards in the production lines of leading manufacturers for more than 30 years. Throughout the world, customers in the pharmaceutical, food and chemical industries and in the mail and logistics sectors highly appreciate the solutions provided by WIPOTEC-OCS.

EXCELLENT SOLUTIONS FOR YOUR APPLICATION
WIPOTEC-OCS stands for sophisticated high-tech systems with maximum ease of use. The impressive product portfolio provides solutions for nearly all customer applications. If necessary, we take special requirements and conditions into account in supplying customized equipment.

EXTRAORDINARY MANUFACTURING DEPTH, ALL SIDE BY SIDE
WIPOTEC-OCS contributes great importance to the in-house development of all necessary technologies as well as the in-house manufacturing of all core components. Consequently, we develop a depth of manufacturing that differentiates us from other vendors and makes us largely independent of suppliers, while forming the basis for our delivery reliability. At WIPOTEC, the entire value chain from basic research, to planning, design, and manufacture to sales and service is all under one roof. The benefit of short channels of communication is the guarantee of maximum flexibility in the implementation of every individual product configuration. No matter how unusual your application may be, we will show you a possible solution that is sure to convince you. That’s what makes the difference
COME AND VISIT US!

Interested in the high-tech solutions from WIPOTEC-OCS? Perhaps you would like to visit our ultra-modern plant. Our prominent market position is no accident, but rather the logical consequence of the creative and competent efforts made by our staff on behalf of our customers. Come and see for yourself. Just schedule an appointment for a tour with us!
POWERFUL X-RAY TECHNOLOGY
FROM WIPOTEC-OCS

The prerequisite of a successful detection of foreign bodies are X-ray images of the highest quality. It begins with the selection of the optimal X-ray source in combination with the best sensors and high performance image processors running the software. The modular system of WIPOTEC-OCS X-ray technology encompasses air-cooled X-ray units as well as water-cooled metal ceramic tubes with beryllium windows.

The adjustable high voltage generator drives the X-ray tube using a collimator. The collimator sends a concentrated beam of radiation to the high performance sensor. The product is then to be inspected as it is positioned on the integrated belt conveyor between the X-ray tube and the sensor where it is then x-rayed.

The resulting high resolution X-ray images correspond to the specific density profiles of the controlled products. Foreign bodies within the product are then detected on the basis of their higher specific densities.

The X-ray images are displayed on the 15” touchscreen control panel. Simultaneously, by means of in-house developed image processing software, they are checked against a number of possible defects like impurities, product deformation, fill level deviation, and incomplete or broken products.

Defective products are removed from the production flow with the aid of a variety of alternative mechanisms. The ejection crosscheck control (optional) reliably monitors this process. In the interest of full traceability, the images of the ejected products are archived with a date and time stamp in the image data memory.
MODULAR DESIGN FOR TAILOR-MADE SOLUTIONS

Thanks to their modularity, the X-ray scanners of the SC-series are, in a single word, economical. Looking at each individual customer application, WIPOTEC-OCS builds optimally customised machines in a hygienic design that provide sustained support to customers in their pursuit of maximal productivity and product security.

That is the reason for so many different variants regarding X-ray technology, conveying technology, and accessories. For our customers, that means the greatest possible flexibility in the product configuration. The initial basis for the perfect inspection system is always a space saving core segment, easy to integrate in every line that can be supplemented by those components that are most practical for use in your individual environment.

It is not necessary to position the products with the required distances between them in advance. The modular system of WIPOTEC-OCS X-ray scanners is the only one on the market that automatically sets the inspection product spacing itself. This advantage significantly reduces your investment costs. In many cases, it is what makes the installation of the X-ray technology possible.
The X-ray scanners of the SC-E family are the perfect entry to the world of ultra-modern X-ray inspection systems and the associated high quality product line of WIPOTEC-OCS. Designed and developed to meet the most stringent requirements of foreign body detection, with optional comprehensive software packages, the scanners become excellent all-rounder that reliably perform, completeness, fill level and form check, as well as mass determination. Together with the intelligent software tool (optional) for hiding packaging clips, the SC-E proves to be an exemplary inspection system.

Compact in their construction, the scanners of the SC-E family include a Diode Array Detector with a 0.4 mm resolution (0.8 mm by request), even in the basic version. The machines are very easy to integrate in any existing production line. All of the X-ray scanners from WIPOTEC-OCS have the same familiar and convenient user interface found in the checkweigher line.

The system is controlled from a 15" colour TFT display with touchscreen panel that always shows the current X-ray image. Designed for protection class IP65 with full stainless steel construction, the system features a balcony design and sloped surfaces that, together with the C-shaped product area, enable thorough cleaning quickly and easily. All scanners meet the most stringent standards of hygiene.

The SC-E product series is more than a good investment for all users who are looking for highly professional foreign body detection. It represents a well-engineered, technical and economical solution at a highly competitive price.
### TECHNICAL DATA

<table>
<thead>
<tr>
<th>X-ray type</th>
<th>X-ray unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>X-ray output</td>
<td>up to 200 W (infinitely variable)</td>
</tr>
<tr>
<td>X-ray sensor</td>
<td>Diode array technology, with 0.4 mm resolution (0.8 mm by request)</td>
</tr>
<tr>
<td>Scanning width</td>
<td>300 and 400 mm</td>
</tr>
<tr>
<td>Scanning speeds</td>
<td>50 m/min (optional up to 90 m/min)</td>
</tr>
<tr>
<td>Product storage</td>
<td>100 products, expandable</td>
</tr>
<tr>
<td>Display</td>
<td>15” colour TFT with touchscreen</td>
</tr>
</tbody>
</table>
| Working height | 650–750/750–850/850–950/950–1,050 mm
| Other heights available by request |
| Scanner belt lengths | 800/1,500/1,800 mm |
| Hygienic design | Complete stainless steel model (1.4301); easy to clean product area (C-shaped); built-in drive technology |
| Ambient conditions | +5 °C to +35 °C (optional 40 °C), relative humidity 20% – 80% (non-condensing) |
| Protection class | IP65 (except ventilators on cabinet) |
| Power supply | 230 VAC; 50/60 Hz; 2.2 kVA |
| Connection with separate, 10 A fuse power line |

1) Other heights available by request

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**Hygienic design through chamfered surfaces**

**Detachable hoods enable easy cleaning**

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Other machine specifications

Technical Data Sheet
The globally successful SC product line meets the highest standards of modern quality management. Nothing is left to chance in terms of process safety and hygienic design. A high performance camera detector equipped with HD-TDI technology ensures high resolution and sharp X-ray images, while providing the optimal basis for the image processing software developed at WIPOTEC-OCS. The minimal faulty rejection rate combines with the maximal detection accuracy to provide the greatest possible safety.

The core of the scanner is its sensor. A highly sensitive HD-TDI camera detector in conjunction with the metal ceramic tube generates an X-ray image marked by an extremely high resolution.

Each model is equipped with a comprehensive software package. The scope of performance of this network-enabled scanner includes foreign body detection, quantity, shape, completeness, and fill level control. The scanning process is continuously documented and is available for single and multi-track systems.

All of the X-ray scanners from WIPOTEC-OCS have the same familiar and convenient user interface found in the checkweigher line. The system is controlled from a 15” colour TFT display with touchscreen panel that always shows the current X-ray image. Designed for protection class IP65 with full stainless steel construction, the system features a balcony design and sloped surfaces that, together with the C-shaped and weldless product chamber, enable thorough cleaning quickly and easily. All scanners meet the most stringent standards of hygiene.

**MAIN FEATURES**

- C-shaped product chamber
- Flexible component design
- Compact design
- Integrated conveyor systems
- Balcony design
- High performance camera detector with HD-TDI technology

**YOUR BENEFITS**

- The broadest inspection for maximum safety
- Compact design for easy integration
### TECHNICAL DATA

<table>
<thead>
<tr>
<th><strong>X-ray type</strong></th>
<th>Metal-ceramic tube with integrated water cooling system or X-ray unit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>X-ray output</strong></td>
<td>up to 600 W, depending on type (infinitely variable)</td>
</tr>
<tr>
<td><strong>X-ray sensor</strong></td>
<td>Long-life camera technology, with 160 µm resolution, SC-5000/6000 with 102 µm resolution</td>
</tr>
<tr>
<td><strong>Scanning width</strong></td>
<td>from 300 to 600 mm¹</td>
</tr>
<tr>
<td><strong>Scanning speeds</strong></td>
<td>up to 120 m/min</td>
</tr>
<tr>
<td><strong>Product storage</strong></td>
<td>100 products, expandable</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td>15&quot; colour TFT with touchscreen (19&quot; optional)</td>
</tr>
<tr>
<td><strong>Working height</strong></td>
<td>750–850/800–900/850–950 mm²</td>
</tr>
<tr>
<td><strong>Hygienic design</strong></td>
<td>Complete stainless steel model (1.4301), easy to clean product area, built-in drive technology</td>
</tr>
<tr>
<td><strong>Ambient conditions</strong></td>
<td>+5 °C to +40 °C, relative humidity 30% – 85%</td>
</tr>
<tr>
<td><strong>Protection class</strong></td>
<td>IP65</td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>230 VAC; 50 Hz; 2.5 kVA (altern. SC-5000/6000: 400 VAC; 50 Hz; 3.5 kVA) Connection with separate, 16 A fuse power line (SC 6000: 10 A)</td>
</tr>
</tbody>
</table>

¹ Wider models available by request
² Other working heights by request

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**Tool-free belt change ensures short downtimes**

**C-shape product chamber for the highest hygienic requirements**

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1) Wider models available by request
2) Other working heights by request
MOST ACCURATE INSPECTION OF BULK MATERIALS: THE SAFETY CHECK FOR RAW GOODS

The optimal technical support for starting your production process with a quality control check of the raw goods – the SC-B model. The scanner provides a very high detection sensitivity that checks loose materials of any kind for the presence of foreign objects. You can be sure that if there is an impurity in the product, it will not be allowed to enter your production process.

The SC-B has the appropriate ejection system to guarantee reliable detection of contaminants with only minimal product loss. The scanner is available in different scanner band widths to efficiently support your individual long-term line requirements. Meet your customers’ expectations regarding product quality with the help of SC-B that guarantees the highest detection sensitivities in terms of foreign object identification and prevention.

All of the X-ray scanners from WIPOTEC-OCS have the same familiar and convenient user interface found in the checkweigher line. The system is controlled from a 15” colour TFT display with touchscreen panel that always shows the current X-ray image. Designed for protection class IP65 with full stainless steel construction, the system features a balcony design and sloped surfaces that, together with C-shaped product area, enable thorough cleaning quickly and easily. All scanners meet the most stringent standards of hygiene.

**MAIN FEATURES**

- Flexible component design
- Compact design
- Integrated conveyor systems
- Balcony design
- Extensive range of ejection systems

**YOUR BENEFITS**

- Reliable check of incoming goods for highest product quality
- Greatest flexibility for optimal line integration
## TECHNICAL DATA

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>X-ray type</td>
<td>Metal-ceramic tube with integrated water cooling system or X-ray unit</td>
</tr>
<tr>
<td>X-ray output</td>
<td>up to 600 W, depending on type (infinitely variable)</td>
</tr>
<tr>
<td>X-ray sensor</td>
<td>Long-life camera technology, with 160 µm resolution</td>
</tr>
<tr>
<td>Scanning width</td>
<td>from 300 to 600 mm(^1)</td>
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<tr>
<td>Scanning speeds</td>
<td>up to 120 m/min</td>
</tr>
<tr>
<td>Product storage</td>
<td>100 products, expandable</td>
</tr>
<tr>
<td>Display</td>
<td>15” colour TFT with touchscreen (19” optional)</td>
</tr>
<tr>
<td>Working height</td>
<td>750–850/800–900/850–950 mm(^2)</td>
</tr>
<tr>
<td>Hygienic design</td>
<td>Complete stainless steel model (1.4301); easy to clean product area, built-in drive technology</td>
</tr>
<tr>
<td>Ambient conditions</td>
<td>+5 °C to +40 °C, relative humidity 30% – 85%</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP65, IP69K(^3)</td>
</tr>
<tr>
<td>Power supply</td>
<td>230 VAC; 50 Hz; 2.5 kVA (altern. SC-B 6000: 400 VAC; 50 Hz; 3.5 kVA)</td>
</tr>
<tr>
<td></td>
<td>Connection with separate, 16 A fuse power line (SC-B 6000: 10 A)</td>
</tr>
</tbody>
</table>

1) Wider models available by request  
2) Other working heights by request  
3) By request

### Additional Features

- Numerous reject flaps ensuring minimal product loss
- Optimal transport of bulk products through troughed belts
- Outfeed conveyor in reversing mode (right) for smallest reject rates
RELIEABLE PRODUCT INSPECTION IN WET AREAS

The **SC-WD** product series leaves nothing to be desired in terms of process reliability and hygienic design. It meets protection class IP69K and is therefore especially suited for wet environments and extreme cleaning conditions. The C-shaped product space, bevelled surfaces and stainless steel housing fulfil even the most stringent hygiene requirements.

Easy installation and removal of the belt allows fast and thorough cleaning, thus maintaining the shortest cleaning cycles. In addition, a special surface treatment is optionally available to guarantee maximum hygiene. Both the X-ray scanner and the integrated water-water cooling unit meet protection class IP69K.

Like all machines of the SC series, all SC-WD models are equipped with an HD-TDI camera detectors. In conjunction with the metal-ceramic tube, it generates extremely high-resolution X-ray images: a perfect basis for the image processing software developed in-house.

Foreign body detection, quantity, shape and filling checks, as well as other inspection tasks are performed reliably with the assistance of a large number of software tools (see p. 24–25). All WIPOTEC-OCS X-ray scanners are equipped with an easy-to-operate user interface which is already weel-established in the check-weigher division. The system is controlled by a large colour TFT with touchscreen that constantly displays the current X-ray images.

### MAIN FEATURES

- Maximum modularity in construction
- C-shaped product space, balcony architecture
- Protection class IP69K
- Compact design
- Highest detection sensitivity

### YOUR BENEFITS

- Easy and thorough cleaning
- Fulfils highest hygiene requirements
- Maximum flexibility
<table>
<thead>
<tr>
<th>TECHNICAL DATA</th>
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</thead>
<tbody>
<tr>
<td><strong>X-ray type</strong></td>
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<tr>
<td><strong>X-ray output</strong></td>
</tr>
<tr>
<td><strong>X-ray sensor</strong></td>
</tr>
<tr>
<td><strong>Scanning width</strong></td>
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<tr>
<td><strong>Scanning speeds</strong></td>
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<tr>
<td><strong>Product storage</strong></td>
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<tr>
<td><strong>Display</strong></td>
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<tr>
<td><strong>Working height</strong></td>
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<tr>
<td><strong>Hygienic design</strong></td>
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<tr>
<td><strong>Ambient conditions</strong></td>
</tr>
<tr>
<td><strong>Protection class</strong></td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
</tr>
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</table>

¹) Wider models available by request
²) Other working heights by request

Covered operation panel for highest hygienic requirements

Other machine specifications

Technical Data Sheet

All entries in mm | Drawing shows sample version
The SC-WD-B model is the perfect solution if you want to ensure the quality of your raw materials or unpackaged products. It combines hygienic design with the advantages of the SC-B X-ray scanner, specially designed by WIPOTEC-OCS for bulk goods. The ideal location for the SC-WD-B is upstream of final packaging. The inspection system has extremely high detection sensitivity which is used to examine all kinds of bulk goods for foreign bodies. This ensures that contaminated products are ejected from your production process.

Various ejection systems, which are adapted to your goods and production line, such as the reversible belt or the retractable tail, ensure minimum product loss. The X-ray scanner is available in various scan widths to effectively support your individual line requirements. The machines are made entirely of stainless steel. Both the X-ray scanner and the integrated water-water cooling unit meet protection class IP69K. The C-shaped product space, in conjunction with the balcony architecture and bevelled surfaces, enables thorough and easy cleaning. A special surface treatment is optionally available to guarantee maximum hygiene.

All WIPOTEC-OCS X-ray scanners are equipped with an easy-to-operate user interface which is already well-established in the checkweigher division. The system is controlled by a large colour TFT with touchscreen that constantly displays the current X-ray images.

MAIN FEATURES

- Maximum modularity in construction
- Hygienic design in IP69K
- Compact design
- Extensive ejection systems

YOUR BENEFITS

- Easy and thorough cleaning
- Fulfils highest hygiene requirements
- Maximum flexibility for optimum line integration
## TECHNICAL DATA

<table>
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<tr>
<th>Specification</th>
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<tbody>
<tr>
<td>X-ray type</td>
<td>Metal-ceramic tube with integrated water cooling system or X-ray unit</td>
</tr>
<tr>
<td>X-ray output</td>
<td>up to 600 W, depending on type (infinitely variable)</td>
</tr>
<tr>
<td>X-ray sensor</td>
<td>Long-life VioX camera technology with 102 µm resolution or diode array technology, with 0.4 mm resolution</td>
</tr>
<tr>
<td>Scanning width</td>
<td>600 mm¹</td>
</tr>
<tr>
<td>Scanning speeds</td>
<td>up to 120 m/min</td>
</tr>
<tr>
<td>Product storage</td>
<td>100 products, expandable</td>
</tr>
<tr>
<td>Display</td>
<td>15” colour TFT with touchscreen</td>
</tr>
<tr>
<td>Working height</td>
<td>750–850/800–900/850–950 mm³</td>
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<tr>
<td>Hygienic design</td>
<td>Complete stainless steel model (1.4301); easy to clean product area, built-in drive technology</td>
</tr>
<tr>
<td>Ambient conditions</td>
<td>±0 °C to +40 °C</td>
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<tr>
<td>Protection class</td>
<td>IP69K</td>
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<tr>
<td>Power supply</td>
<td>400 VAC, 50–60 Hz; 3.5 kVA; Connection with separate, 16 A fuse power line</td>
</tr>
</tbody>
</table>

¹ Wider models available by request  
² Other working heights by request
If you have to check standing products for impurities by means of X-rays and ensure the correct fill levels, then the models of the SC-S series are the perfect choice.

These models follow a component design that enables an easy, space-saving integration with any existing production line. The sideview scanner reliably checks cans, bottles, composite packaging, paper, or plastic containers. Either a belt or a chain conveyor can pass through the scanner’s housing.

All of the X-ray scanners from WIPOTEC-OCS have the same familiar and convenient user interface found in the checkweigher line. The system is controlled from a 15” colour TFT display with touchscreen panel that always shows the current X-ray image. Designed for protection class IP65 with full stainless steel construction, the system features a balcony design and sloped surfaces that, together with C-shaped product area, enable thorough cleaning quickly and easily. All scanners meet the most stringent standards of hygiene.

**SC-S 4000**

**COMPACT AND RELIABLE INSPECTION OF STANDING PRODUCTS**

**MAIN FEATURES**
- Flexible component design
- Checks standing products like cans, bottles, PVC containers
- Compact design
- Integrated conveyor systems

**YOUR BENEFITS**
- The broadest inspection for maximum productivity
- Compact design for easy integration
### TECHNICAL DATA

<table>
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<tr>
<td><strong>X-ray output</strong></td>
<td>up to 600 W, depending on type (infinitely variable)</td>
</tr>
<tr>
<td><strong>X-ray sensor</strong></td>
<td>Long-life camera technology with 160 µm resolution or diode array technology, with 0.4 mm resolution</td>
</tr>
<tr>
<td><strong>Scanning width</strong></td>
<td>400 mm&lt;sup&gt;1)&lt;/sup&gt;</td>
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<tr>
<td><strong>Scanning speeds</strong></td>
<td>up to 120 m/min</td>
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<tr>
<td><strong>Product storage</strong></td>
<td>100 products, expandable</td>
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<tr>
<td><strong>Display</strong></td>
<td>15” colour TFT with touchscreen (19” optional)</td>
</tr>
<tr>
<td><strong>Working height</strong></td>
<td>750–850/800–900/850–950 mm&lt;sup&gt;2)&lt;/sup&gt;</td>
</tr>
<tr>
<td><strong>Hygienic design</strong></td>
<td>Complete stainless steel model (1.4301), easy to clean product area, built-in drive technology</td>
</tr>
<tr>
<td><strong>Ambient conditions</strong></td>
<td>+5 °C to +40 °C, relative humidity 30% – 85%</td>
</tr>
<tr>
<td><strong>Protection class</strong></td>
<td>IP65, IP69K&lt;sup&gt;3)&lt;/sup&gt;</td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>230 VAC, 50 Hz; 2.5 kVA; Connection with separate, 16 A fuse power line</td>
</tr>
</tbody>
</table>

1) Wider models available by request  
2) Other working heights by request  
3) By request

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**Secure material handling in product chamber**

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**Other machine specifications**

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**Technical Data Sheet**

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**All entries in mm | Drawing shows sample version**
CHECKWEIGHER AND X-RAY INSPECTION AS A SPACE SAVING INTEGRATED SYSTEM

The SC-W series is a pioneering combination of innovative X-ray technology and the proven checkweigher technology from WIPOTEC-OCS. The products in the accepted goods stream are checked not only for impurities, but also undergo a high-precision weight control check. Units with an incorrect weight are ejected into a separate container.

Both the single and the dual-track model are very successful – either with or without the curtain for radiation protection. The variant without protective curtain provides high throughput rates of up to 300 pieces per minute per track, which is even possible for very lightweight product units.

The tool-free exchange of all conveyor belts and the easy to handle housing make it really simple to clean the system. The product chamber is separated from all of the drive system components.

All of the X-ray scanners from WIPOTEC-OCS have the same familiar and convenient user interface found in the checkweigher line. The system is controlled from a 15” colour TFT display with touchscreen panel that always shows the current X-ray image and product weight.

Designed for protection class IP65 with full stainless steel construction, the system features a balcony design and sloped surfaces that, together with C-shaped product area, enable thorough cleaning, quickly and easily. All scanners meet the most stringent standards of hygiene.

MAIN FEATURES

- X-ray scanner and checkweigher in one unit
- Flexible component design
- Available as single or dual-track system

YOUR BENEFITS

- X-ray scanner and checkweigher for maximum product safety
- Easy to operate central user interface
**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>X-ray type</td>
<td>Metal-ceramic-tube with integrated water cooling system or X-ray unit</td>
</tr>
<tr>
<td>X-ray output</td>
<td>up to 600 W, depending on type (infinitely variable)</td>
</tr>
<tr>
<td>X-ray sensor</td>
<td>Long-life camera technology, with 160 µm resolution</td>
</tr>
<tr>
<td>Scanning width</td>
<td>from 300 to 600 mm(^1)</td>
</tr>
<tr>
<td>Scanning speeds</td>
<td>up to 120 m/min with up to 300 products per track</td>
</tr>
<tr>
<td>Product storage</td>
<td>100 products, expandable</td>
</tr>
<tr>
<td>Display</td>
<td>15” colour TFT with touchscreen (19” optional)</td>
</tr>
<tr>
<td>Working height</td>
<td>750–850/800–900/850–950 mm(^2)</td>
</tr>
<tr>
<td>Hygienic design</td>
<td>Complete stainless steel model (1.4301), easy to clean product area;</td>
</tr>
<tr>
<td></td>
<td>built-in drive technology</td>
</tr>
<tr>
<td>Ambient conditions</td>
<td>+5 °C to +40 °C, relative humidity 30% – 85%</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP65</td>
</tr>
<tr>
<td>Power supply</td>
<td>230 VAC; 50 Hz; 2.5 kVA</td>
</tr>
<tr>
<td></td>
<td>Connection with separate, 16 A fuse power line</td>
</tr>
<tr>
<td>Weighing technology</td>
<td>Gross weight range</td>
</tr>
<tr>
<td>Single track</td>
<td>750–7,500 g Max. preload 4,000–15,000 g Min. calibration value 0.1 g</td>
</tr>
<tr>
<td>Dual track</td>
<td>750–7,500 g Max. preload 4,000–15,000 g Min. calibration value 0.1 g</td>
</tr>
<tr>
<td>Max. output</td>
<td>300 ppm per track</td>
</tr>
<tr>
<td>EU-type examination certificate</td>
<td>DE-18-M1066-PTB001</td>
</tr>
<tr>
<td>Standard deviation (1s) (^3)</td>
<td>&gt; 50 mg</td>
</tr>
</tbody>
</table>

1) Wider models available by request
2) Other working heights by request
3) Dependent on product form, product behaviour, transport speed, and local conditions

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Other machine specifications

Technical Data Sheet

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All entries in mm | Drawing shows sample version

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Comprehensive product inspection: X-ray and weighing in combination
The SC-V model represents the most advanced inspection technology. It combines reliable detection of product impurities by means of the high performance X-ray scanner with additional optical control systems developed in-house at WIPOTEC-OCS.

These control systems check the information as it appears on the products (ingredients, nutritional values, expiry date) for accuracy and a flawless appearance regarding the proper positioning and readability of all labels and seals. Both inspection units – X-ray system and optical control – are combined in one space-saving design.

In addition to the reliable detection of foreign bodies, the SC-V also guarantees the accurate and uniform appearance of your products. The model constitutes an outstanding inspection system that provides maximum safety and prevents costly recalls resulting from product contamination or incorrect labelling.

This model has the same familiar and convenient user interface used in the checkweigher line. The system is controlled from a 15” (optional 19”) colour TFT display with touchscreen panel that always shows the current image. Designed for protection class IP65 with full stainless steel construction, the SC-V system features a balcony design and sloped surfaces. Together with a C-shaped product area, it enables a quick and easy thorough cleaning. This machine also meets the most stringent standards of hygiene.

MAIN FEATURES

- Multiple inspection methods in one compact unit
- Legibility check and position control of all labels and codes
- Cover film verification
- Verification of best-before date
- Bar code check
- Flexible component design
- Highest hygienic standards
- Both inspection units operated from one HMI

YOUR BENEFITS

- The broadest inspection for maximum productivity and product safety
- Easy to operate central user interface
## TECHNICAL DATA

<table>
<thead>
<tr>
<th>X-ray type</th>
<th>Metal-ceramic tube with integrated water cooling system or X-ray unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>X-ray output</td>
<td>Up to 600 W, depending on type (infinitely variable)</td>
</tr>
<tr>
<td>X-ray sensor</td>
<td>Long-life camera technology, with 160 µm resolution</td>
</tr>
<tr>
<td>Scanning width</td>
<td>From 300 to 600 mm¹</td>
</tr>
<tr>
<td>Scanning speeds</td>
<td>Up to 70 m/min with 150 ppm (with inspection on both sides)</td>
</tr>
<tr>
<td>Product storage</td>
<td>100 products, expandable</td>
</tr>
<tr>
<td>Display</td>
<td>15” colour TFT with touchscreen (19” optional)</td>
</tr>
<tr>
<td>Working height</td>
<td>750–850/800–900/850–950 mm²</td>
</tr>
<tr>
<td>Hygienic design</td>
<td>Complete stainless steel model (1.4301), easy to clean product area, built-in drive technology</td>
</tr>
<tr>
<td>Ambient conditions</td>
<td>+5 °C to +40 °C, relative humidity 30% – 85%</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP54, IP65³</td>
</tr>
<tr>
<td>Power supply</td>
<td>230 VAC; 50 Hz; 3 kVA</td>
</tr>
<tr>
<td>Connection with separate, 16 A fuse power line</td>
<td></td>
</tr>
<tr>
<td>Optical sensor</td>
<td>Black &amp; white line sensor, colour available by request</td>
</tr>
<tr>
<td>Scanning width</td>
<td>300 mm¹</td>
</tr>
<tr>
<td>Sensor resolution</td>
<td>73 µm pixel size⁴</td>
</tr>
</tbody>
</table>

¹ Wider models available by request
² Other working heights by request
³ By request
⁴ Smaller pixel sizes available by request

Other machine specifications:
- Optical Control: position and data contents of labels

1. Optical control from below
2. X-ray inspection of foreign bodies
3. Optical control from the top down

Other machine specifications:
- Technical Data Sheet

WWW.WIPOTEC-OCS.COM
The challenge facing today’s market is the steadily increasing demand for quality and safe foods. Foreign objects like metal, glass, stone, bone, and etc. pose a real threat to the health of the consumers. Quality features such as the completeness of the products, their perfect form and the correct fill level take on ever more significance.

Quality standards like HACCP, BRC, and IFC help to design an efficient quality assurance system with the primary aim being optimal product quality in addition to consumer safety. Achieving this without limiting productivity in today’s production processes requires fully automated and reliable inspection systems.

Specialising in high precision product inspection and highly flexible in application, our component based inspection systems deliver an outstanding contribution to even greater safety for products and consumers.
COMPREHENSIVE INSPECTION: FOREIGN BODY DETECTION WITH CHECKS FOR Completeness, Form, AND PROPER FILL LEVELS

Pizza
- Foreign body detection
- Form check
- Broken product
- Surface control

Fish sticks
- Foreign body detection
- Completeness check
- Broken product

Chocolate
- Foreign body detection
- Broken product
- Nut distribution
- Completeness check

Sausage/cold meats with clip seals
- Foreign body detection
- Clip and fill level control
- Clip recognition (missing clip)

Cheese
- Foreign body detection
- Measuring density

Praline box
- Foreign body detection
- Completeness check
- Form control
- Position check
THE QUALITY FEATURES OF POWERFUL X-RAY TECHNOLOGY

The inspection systems from WIPOTEC-OCS are successfully implemented worldwide. The reason for this is the use of high quality single components. They enable the efficient and reliable operations with the primary goal of maximising product safety and establishing your sustainable brand reputation through a consistently flawless product quality.

**DIODE ARRAY DETECTOR**
- High standard resolution of 400 μm
- 16-bit technology for
- Inspection speeds of up to 1.5m/s

FOR THE OPTIMAL DETECTION OF FOREIGN BODIES

**CAMERA DETECTOR**
- Multi-resolutions of 102 μm
- 16-bit technology
- Inspection speeds of up to 2.0 m/s
- High resolution Time Delay Integration (HD-TDI)
- Wear-free

FOR HIGH RESOLUTION X-RAY IMAGES AND FURTHER INSPECTION FUNCTIONS

**X-RAY UNIT**
- Air-cooled X-ray unit
- Water-cooled metal-ceramic tube
- Closed cooling cycle (water)

FOR THE OPTIMAL CUSTOMISATION OF INSPECTION FUNCTIONS

**DESIGN/CONSTRUCTION**
- Balcony design with chamfered product chamber surfaces
- Product areas free from welded joints, in C-Form
- Modular construction
- Complete separation of product and machine areas

FOR SIMPLE INTEGRATION INTO EXISTING LINES, AND FOR THE HIGHEST OF HYGIENE REQUIREMENTS

**COMMUNICATION AND NETWORK CAPABILITY**
- Connection to Comscale
- Communication with upstream and downstream line aggregation
- Article change over a PLC
  (Allen Bradley and Siemens – optional)

FOR PERFECT LINE INTEGRATION AND THE CONTINUOUS AND PERMANENT STORAGE OF PRODUCTION DATA

**UXS SOFTWARE**
- Intelligent auto-learn function
- Intuitive menu navigation
- Chaotic multi-track operation (optional)
- Countless software tools operating simultaneously

FOR THE HIGHEST EFFICIENCY IN PRODUCT INSPECTION
When you choose WIPOTEC-OCS as your system supplier, you have the benefit of top quality service modules that incorporate the vast experience of our weighing and inspection system experts. Whether a pure consulting service or specific line and product support throughout the product life cycle, we are your reliable partner.

Turn to us with your requirements. We would be pleased to discuss the scope and effort of individual services in more detail with you. Trust in our experience and reliability.

**RELIABLE EXPERT SERVICE, CUSTOMISED TO YOUR NEEDS**

**BENEFIT FROM OUR OUTSTANDING RANGE OF SERVICES**

- **24/7* – HOTLINE AVAILABILITY**
- **GLOBAL SERVICE NETWORK WITH CERTIFIED TECHNICIANS FOR ON SITE SUPPORT**
- **PROFESSIONAL INSTALLATION AND OPTIMISATION BASED ON CUSTOMER NEEDS ENSURES SMOOTH START-UP**
- **EUROPE-WIDE CONFORMITY ASSESSMENT AND COMPLETE OVERHAUL WITH THE EXCHANGE OF VERIFICATION RELEVANT PARTS**
- **PREVENTIVE MAINTENANCE, SETUP, AND OPTIMISATION OF YOUR SYSTEMS**
- **FAST ON SITE REPAIRS USING ORIGINAL PARTS**
- **CALIBRATION CHECKS AND READJUSTMENT OF THE ENTIRE SYSTEM, IF REQUIRED**
- **GENERAL PRODUCT AND TARGET OBJECTIVE TRAINING TO IMPROVE EFFICIENCY**
- **REMOTE MAINTENANCE FIRST HAND (WITH APPROPRIATE HARDWARE) FOR URGENT JOBS**

* On conclusion of a corresponding service agreement
INNOVATIVE, HIGH-END INSPECTION SYSTEMS FOR BETTER IMPROVED EFFICIENCY AND PRODUCTIVITY

WE ARE THE IDEAL PARTNER FOR ALL YOUR NEEDS, FROM PRE SALES CONSULTING TO AFTER SALES SERVICE