

## Safety without Any Compromises

### Dymond sets new benchmarks in X-ray inspection technology

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Goettingen, March 11, 2010 – Today, absolute process reliability is the No. 1 requirement in the food and pharmaceutical industries. The direct consequence: never have production processes been so closely and completely monitored like they are today. To design manufacturing processes as efficiently as possible, inspection systems must be easy to operate and have high performance capabilities.

The new Dymond X-ray inspection system from Sartorius Mechatronics provides a winning solution. It accurately detects contaminated products and reliably ejects them from the production line. Both detection and ejection are simultaneously documented so that these data are available over the long term for statistical evaluation of the inspection process.

The list of materials that Dymond can test ranges from metals, also in metallic packaging) to glass, rocks or chips of stone and bone to plastics. In the process, the X-ray inspection system can also check the shape, volume and dimensions of products as well as the fill level and weight. Moreover, the system detects hollow spaces and cracks within a product, such as cavities in cheese.

#### **Powerful performance, intuitive operation and ease of cleaning**

Thanks to its entirely modular design and use of top-quality components, the Dymond series achieves maximum detection reliability and flexibility. Thus, Dymond high-grade, air-cooled X-ray tubes create an exceptionally small focal point. In combination with the latest generation of detectors, this significantly improves

detection sensitivity. Even at high belt speeds of up to 100 meters per minute, Dymond generates clear, low-noise images.

Intuitive operation is of decisive importance for users' acceptance of new equipment. The Dymond series is so user-friendly that machine operators do not have to be specially trained to use these inspection systems. Therefore, machine operators can quickly and readily adapt the Dymond system to the specific requirements of their production line.

What's more, the slanted contours of the stainless steel housing, which consistently rule out flat surfaces where particles can collect, IP65 protection (IP 69k optional) and easy removal of the belts without the need for tools all make cleaning extremely easy, saving companies time and money in the process.

### **Even Higher Process Reliability**

The new Dymond series not only helps ensure that the resulting final products have the quality on which consumers can rely 100%, but also assists in maximizing machine capacity usage. As a result, the Dymond series meets all requirements on an advanced X-ray inspection system and complies with the latest food and pharmaceutical industry standards for quality control.

### **A Profile of Sartorius**

The Sartorius Group is a leading international laboratory and process technology provider covering the segments of biotechnology and mechatronics. In 2009, the technology group earned sales revenue of 602.1 million euros. Founded in 1870, the Goettingen-based company currently employs approximately 4,350 persons. The major areas of activity in its biotechnology segment focus on fermentation, filtration, purification, fluid management and laboratory applications. In the mechatronics segment, the company primarily manufactures equipment and systems featuring weighing, measurement and automation technology for laboratory and industrial applications. Key Sartorius customers are from the pharmaceutical, chemical and food and beverage industries and from numerous research and educational institutes of the public sector. Sartorius has its own production facilities in Europe, Asia and America as well as sales subsidiaries and local commercial agencies in more than 110 countries.



Photo | Image File for Press Release:



**Image | Photo:** The new Dymond 80 X-ray inspection system.

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