



Dymond 80 X-ray Inspection System



Detects:

- metals
- bones
- glass
- stones
- ceramics and plastics

The bar is always being set higher in terms of process security in the industry. One of the key focus areas is the installation of control points at which products can be checked for foreign contaminants. There are many reasons why foreign contaminants get into the production process. In all cases, they pose a risk to the end user and therefore an incalculable risk for the manufacturing company.

The Dymond series of X-ray inspection systems from Sartorius offers the perfect solution. They detect contaminated products and discharge them safely. Both processes are carried out automatically and are documented so that the data is available in the long term for the statistical evaluation of the control process.

The Dymond 80 can be fitted into an existing system architecture without difficulty. It can also be reset to handle new products quickly and without great expense. Operation is easy and intuitive thanks to a 15" LCD color monitor with touchscreen display. The stainless steel housing also ensures that the device is easy to clean. The device works automatically in harmony with the production line and requires no specially trained operating personnel.

Using the remote access service, the device can be accessed via a modem, through which the device status, a detailed error description and production statistics can be obtained. In many cases, this negates the need for on-site servicing.



Weight calculation for individual areas

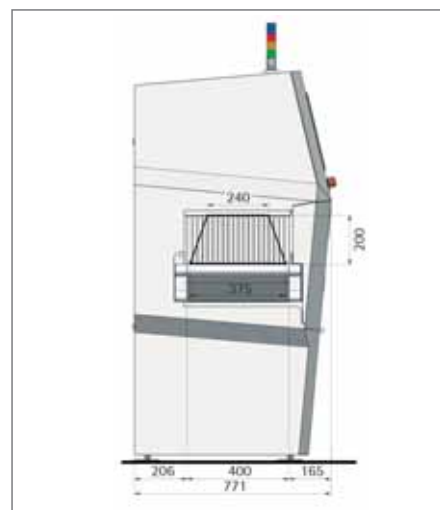
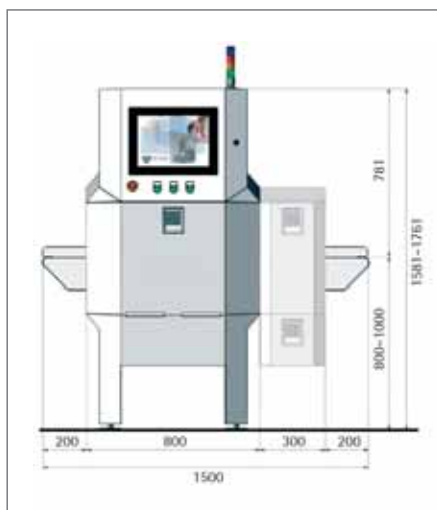
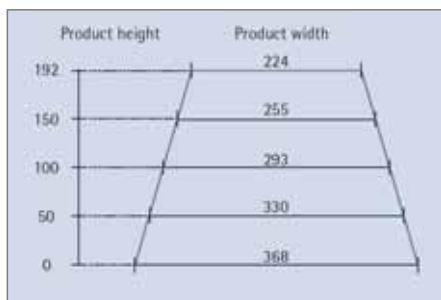


Completeness check



Detection of cavities in cheese

To ensure that the X-rays scan the entire product, there are certain limits on the size of the product. The following diagram shows the relationship between the product width and product height.



Maximum belt speed	100 m/min
X-ray detector	linear detector with 0.8 mm, 0.4 mm resolution (0.2 mm available on request)
Protection class	IP 65, optional IP 69 k
Display	15" touchscreen color display
Power consumption	1.2 kW
X-ray generator	100 W – high resolution
Belt height, belt width, belt length	800 – 1000 mm, 400 mm, 1500 mm
Ambient temperature	5°C – 35°C
Humidity	0 – 90% non-condensing
Dispersion	up to 8 traces at the same time
Cooling	air cooled X-ray tubes
Interfaces	modem, USB, and network interface
Pharmaceuticals	IQ OQ, CFR 21 part 11 compliant

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