

Sesotec Metal Detectors Convince Manufacturer of Pharmaceutical Packaging With Their Ease of Operation and High Accuracy

Pharma packager

Product:

PROTECTOR

Already 60 injection-moulding machines for the production of inhalators, eye drop dispensers, and nasal spray containers equipped with Sesotec metal detectors

A leading manufacturer of pharmaceutical packaging, e.g. nasal spray containers, operates according to its conviction that its devices have an influence on the health of their users. Quality therefore is extremely important in this field, and this is considered in all phases of the production processes – from product design to production sequences and through to 100 % inline testing. The high quality of the products thus is the result of sophisticated processes and efficient systems.

The significant reduction of customer complaints is the most important indicator for how the company values

the observance of quality standards. Other criteria also are considered with the objective of remedying defects, reducing the number of deviations, and finally increasing customer satisfaction.

Protection of injection moulds and quality assurance of products

One of the packaging manufacturer's plants almost exclusively produces articles for the pharmaceutical industry. About 25 different products are made with a variety of hot runner moulds, with quantities of almost one million per year. Each of these products in turn can comprise up to 27 individual parts that are all injected in the same plant. Some of the large moulds have 48 cavities. All the injection-moulding machines operate in hygienically closed halls.



PROTECTOR

Since 2011 the company has equipped its injection-moulding machines with Sesotec metal detectors of type PROTECTOR Primus to remove metal contaminations from the plastic granulate. The Protectors

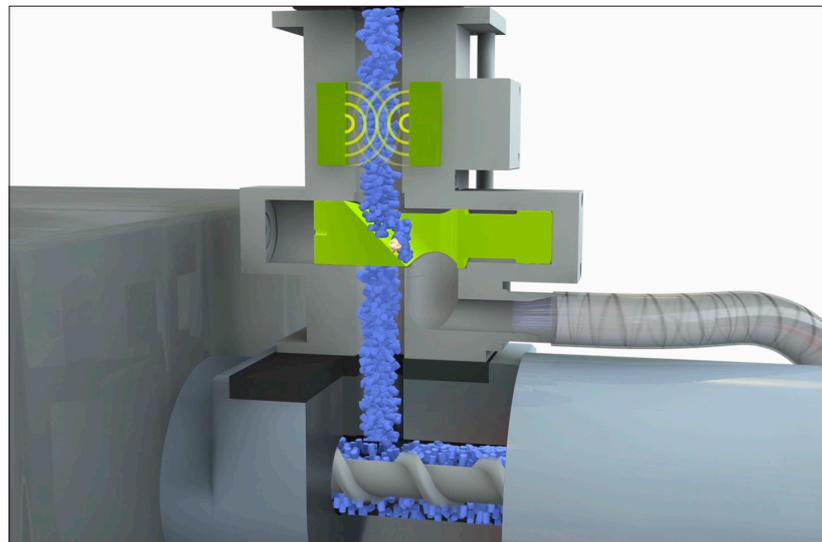
make an important contribution to the observance of the company's high quality demands.

With respect to quality standards there were three reasons for the purchasing of metal detectors:

1. That they avoid machine damage caused by metal particles which e.g. choke cavities and thus lead to expensive repair work.
2. That there no longer are production losses due to machine downtimes.
3. That there are no more customer complaints due to contaminated or underinjected products.

How the PROTECTOR metal detector works

Metal detectors of the PROTECTOR series are installed directly above the material inlet of injection moulding machines, where they reliably remove metallic contaminations from the slowly descending material column. Apart from outstanding properties such as high sensitivity and space-saving, compact design, the metal detectors of the PROTECTOR series especially are characterised by the "Quick-Valve" reject unit. When a metal particle is detected a pneumatically controlled



PROTECTOR Animation

piston in this reject unit moves into its reject position, and the rejected material is completely sucked off into a collecting container by means of a Venturi nozzle. The piston then moves back to its pass-through position. Only a minimum of good material is lost in this process, and clogging is impossible.

The project manager of the pharmaceutical packaging manufacturer is highly satisfied with the Sesotec PROTECTOR metal detectors: "We are particularly convinced by the high detection accuracy and the high reliability of the systems, and by the ease of operation provided by the Primus control unit."

Sesotec - an overview

The Sesotec group is one of the leading manufacturers of machines and systems for contaminant detection and material sorting. Product sales primarily focus on the food, plastics, and recycling industries. Sesotec's global presence includes subsidiaries in Great Britain, Singapore, China, USA, France, Italy (2), India, Canada, Thailand, a representative office in Turkey, and more than 60 partners all over the world.v

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