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DS12+ – New generation of automatic thickness sorting machines for tablets

User-friendliness and low maintenance

Seidenader's automatic DS12+ thickness sorting machine now presents itself in a new format. Additional practical design details and a touchscreen (HMI) have optimized operating comfort and make for easy maintenance in the automatic sorting of tablets.

At the heart of the re-engineered version of the DS12+ are the inclined sorting channels: each with two counter-rotating, high-precision and robust rollers which reliably guide tablets or comparable products successively through the channel for sorting. Moving and adjustable rows of flaps above the sorting channel prevent the products from overflowing and separate any tablets which may be lying on top of one another. The precisely adjustable gap between the rollers increases along their length: in the upper section it is narrower than in the lower section. Depending on thickness, the tablets automatically drop into three different discharge channels: "too thin" at the top, "good" in the centre and "too thick" at the bottom end. Optionally, smaller fragments can be screened out through a perforated plate prior to the actual sorting process.

New technical details make the machine even easier to operate and contribute to reduced maintenance. It features a user-friendly control panel (HMI) with touchscreen. In the event of a product change the formulae for the product-specific machine settings can be retrieved from the HMI. Menu-guided, the dimensions for the new tablets format are set manually and reproducibly, and confirmed in the HMI.

A convenient new feature is sensor-protected setting of the gap between the rollers of the sorting channels. Adjustment wheels in the upper and lower section of the cylinders simultaneously regulate the clearance in all sorting channels. A sensor in each setting range checks the roller spacing, which is displayed in the HMI with hundredth millimetre precision.

The overall design has likewise been optimized: the machine has become more compact and also lower, making it easier to load. The hopper for the feeding in the tablets can also be tipped backwards, facilitating cleaning and maintenance. All parts of the machine are easily accessible. If necessary, individual rollers can be quickly and cost-efficiently replaced. All components which come into contact with the product are made of FDA-compliant materials.

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The DS12+ offers a high sorting capacity of up to 1,000 kg/h, depending on the size and type of product. The sorting accuracy is continuously adjustable down to tolerances of ± 0.05 mm. A format change requires only the replacement of a single format part. The machine can be integrated into the production line at various different points: installing the DS12+ upstream of a blister machine prevents interruptions to the packaging process caused by products that are under- or oversized. When installed prior to the coating of tablets or dragees, the DS12+ ensures that only products of the correct size and shape are coated. Following coating, tablets that are stuck together or whose coating is too thick or irregular can be ejected. The machine can also be used for separating off foreign material that can be detected on the basis of size.

Last but not least, Seidenader guarantees short delivery times for the DS12+ thanks to the use of standard components and prefabricated modules.

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About Seidenader

Since 1895, Seidenader has been committed to manufacturing high-quality equipment for the pharmaceutical industry. For more than 20 years, we have also been developing in-house the intelligent vision systems for our automatic inspection machines. Expertise on material handling and inspection of a vast variety of pharmaceutical containers filled with liquid and dry sterile products, combined with the experience and feedback of our customers has helped us to create a full line automatic inspection machines: from handy table top units for laboratory applications to high-performance inspection machines for large production environment. Exterior washing machines as well as inspection and sorting machines for tablets and capsules complete the Seidenader product range. Seidenader meets the increasing requirements of the pharmaceutical industry by developing complementary inspection technologies, automation solutions for the control of complex packaging lines as well as comprehensive track and trace solutions.

Seidenader is part of Medipak Systems, the Pharma Systems business area of the international Körber technology group. Körber unites worldwide nearly 12,000 professionals in industry-leading companies, achieving annual earnings of more than 2.3 billion Euros. The head office of Seidenader Maschinenbau GmbH is located in Markt Schwaben near Munich.

About Medipak Systems

Medipak Systems is a reliable partner to the international pharma and biotech industry with locations in the US and around the globe.

Medipak Systems offers solutions for save and efficient processes for the production and packaging of pharmaceutical products: including Pharma Manufacturing Execution Systems (MES), the development and production of standard and special folding boxes, innovative packaging and inspection machines, and solutions for the traceability of medicines.

A unique combination of process know-how and advanced technology makes Medipak Systems one of the leading system providers.

Medipak Systems unites the companies Dividella, Mediseal, Rondo, Seidenader Maschinenbau and Werum IT Solutions. Worldwide 1,600 employees work for our companies. Medipak Systems is the Pharma Systems business area of the international Körber technology group. Körber unites worldwide nearly 12,000 professionals in industry-leading companies, achieving annual earnings of more than 2.3 billion Euros.

For more information on the Körber Medipak Systems please visit www.medipak-systems.com