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Pharma+Food

CONTRACT MANUFACTURING

Single-use technology at a contract manufacturer in the pharmaceutical industry

Single-use applications are particularly advantageous for fast product changes as they save costly cleaning procedures. Contract manufacturers thus attain the necessary flexibility for a versatile portfolio.

SEPARATION TECHNOLOGY, FILTERS

Sorptive and exothermic processes for air drying

Dry process air is indispensable in solids processes in the pharmaceutical industry. Sorptive and exothermic processes for air drying are one possibility.

BATCH PRODUCTION

Classification of energy efficiency for air filters according to EN ISO 16890

In line with the new Eurovent classification, energy efficiency requirements have increased. This means that many filters

that were previously rated A+ have now been downgraded to A. This forces manufacturers to improve the performance of their filters and consider the general developments within the industry since the introduction of the energy class in 2015.

FILTERS

Protection against toxic dusts using dedusting filters

The dedusting of machines and processes in the pharmaceutical industry is particularly demanding: maximum filtration performance protects against residual dust; filter systems and their handling are generally sealed dust-tight in containment. The environment, employees and the process environment are effectively shielded from the discharge of process materials even in the event of explosions within the processes.

HYGIENIC CONVEYING

Pumps for hygiene processes – novelties and solutions

In the food industry, pumps have to meet very special requirements as regards hygienic design. Our overview article shows the latest developments in the field of hygienic pumps.

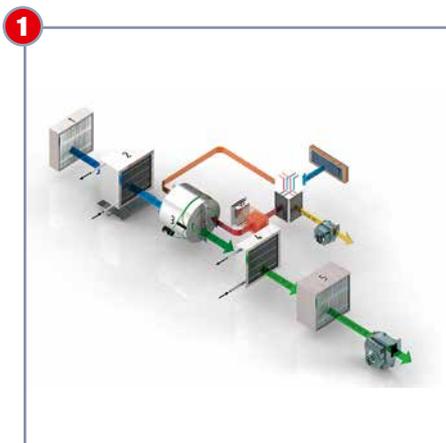


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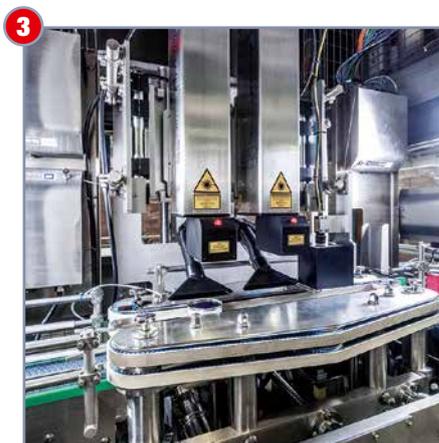


Image: Laetus



POWDER HANDLING – ISSUE FOR POWTECH

Safety in sugar handling

Beverage manufacturers are among the most important customers of German sugar factories. During processing, fine combustible dusts can be produced by the friction of the crystals impacting together. When stirred up in air, the microscopically small particles quickly form a dangerous explosive atmosphere. A well-founded risk consideration and assessment and effective explosion protection based on this is therefore indispensable.

Powtech trade fair preview

This year's Powtech will once again feature interesting novelties and solutions for systems in the pharmaceutical and food industries. The hygienic design of components is particularly important here. We will report on the most interesting novelties.

Selection criteria for the right partner in explosion protection

Operators of plants in dust explosive environments bear great responsibility for their employees. They are obliged to take organisational and technical measures to minimize any safety risks due to explosions. The right explosion protection partner is vital in this respect.

Mixing without shear forces

When simultaneously mixing and drying sensitive goods, such as tea leaves, it is important to proceed as gently as possible. Suitable mixing processes keep shear forces low and the product intact.

Removal of catalysts from API suspensions

Once an active pharmaceutical ingredient has been synthesized, any catalysts used must be removed from the API suspension. Currently, frequently used solutions include manual plate filters, filter presses, bag filters, cartridge filters and other conventional filters that require manual cleaning and emptying and impose increased demands on the production process in terms of personnel, maintenance and disposal costs. Many pharmaceutical companies are therefore looking for alternative technological approaches to make the filtration of API suspensions both more cost-effective, more efficient and safer at the same time.

PACKAGING TECHNOLOGY

Handling of syringes with robots

The degree of automation is increasing in the handling of syringes. In a current project, six-arm robots are responsible for separating the empty glass containers and grouping the filled glass containers.

Counterfeit protection for milk powder

Food and milk powder scandals have contributed to the increasing importance of product traceability in the food and ELN (Early Life Nutrition) industry. Practical examples show what the technical implementation of serialisation projects can look like and which challenges need to be mastered.

INTRALOGISTICS

Transparent logistics chain thanks to blockchain

Blockchain technology promises safer, faster and more transparent transactions throughout the entire logistics chain. This is why the Swiss start-up modum.io is using this technology with its supply chain system for pharmaceutical companies. A core element is the temperature logger which modum.io has developed with the support of Rutronik.