NEWSLETTER

J-TEC MATERIAL HANDLING

OCTOBER 2007

Central vacuum cleaning and conveying system

Dust accumulation and work regulations concerning explosion safety and cleaning on the work floor often present a major challenge for companies.
Recently a world player in the petrochemical industry was confronted with these issues, and started looking for a solution that could be implemented as a central vacuum cleaning system, as well as a pneumatic conveying system for the removal of residue from several storage facilities.
J-TEC analyzed the problem and found the solution within its own standard production supply. The central vacuum cleaning unit was designed with J-TEC's standard separator in mind. This separator was equipped with all the required safety precautions, in accordance with Atex guidelines. The product to be conveyed has a minimum ignition energy of 1 millijoule.
The installation enables the operator to do the vacuum cleaning at different points in an area with several polyolefin compound production lines. This cleaning process takes place at a capacity of 1000 kg/hr and can be done using one suction point at a time.
All parts that come into contact with the product are made out of SS304, J-TEC's standard quality.
In its own test room in Kapellen, Antwerp, J-TEC has a similar installation for own use.

Two new J-TEC locations

Beside the Benelux, Germany and France, J-Tec has recently added two more countries to its list: Italy and Poland.

Roeland Frère, Sales Manager for Italy, started working for J-Tec at the end of last year.

Lukasz Kacprzak, Sales Manager for Poland, joined the J-Tec team on the 1st of May.

Italy

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Upcoming events

October 24-31
K 2007
Messe Düsseldorf
Hall 9, stand E 68
www.k-online.de

November 21-22, 2007:
Solids (Ahoy, Rotterdam)
Stand 2104
www.easyfairs.com

September 30- Oct 2
Powtech 2008
Nürnberg
www.powtech.de

September 30 - Oct 3
Industrial Processing 2008
Utrecht
www.industrialprocessing.nl

Contact

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OUR PEOPLE MAKE THE DIFFERENCE
J-TEC MATERIAL HANDLING

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Powder handling for new production line in the baby food industry

Last year Nutricia, a worldwide player in the baby food industry, invested in a new production line. J-Tec was chosen as the supplier for the powder blending part. Nutricia belongs to the group "Koninklijke Numico NV" and is the manufacturer of well-known brands such as Nutrilon, Olvarit and Bambix.

From the point of view of both the industry and the consumer, there is a growing awareness of product safety. Several sectors, including the food industry, are faced with increasingly strict regulations regarding hygiene and process reliability.

Major food companies such as Nutricia play a leading role in this trend.

Challenges

For this new line J-Tec had to take into account several hygienic requirements, Atex directives and special corporate standards. To meet these requirements a number of measures were taken. For instance, in terms of cleanability J-Tec provided special connection points on the mixer and vibrating feeder for dust aspiration during cleaning; the vibrating feeders are equipped with quickly dismountable covers for easy cleaning; product contact parts are polished to Ra 0,2 – 0,3 μm, etc.

Description

The principle of the J-Tec installation is the blending of the main powder volume with additives. The additives are supplied in containers and dosed into a paddle mixer by a vibrating feeder and a J-Tec dosing valve. The main powder volume comes in containers or Big Bags® and is also dosed into the mixer by a vibrating feeder. For the Big Bag® discharge stations J-Tec's R&D department designed a special feature: a 3-in-1 functionality discharge clamp. It incorporates a dust-tight connection, an outlet spout stretching device and a system for the automatic disposal of foreign materials. From the mixer, the blend falls into a hopper, and is conveyed to an inline safety sieve. The recap can be dosed into a container filling station.

Proud of

The result is a robust, compact installation that was built within a tight time-frame. The company's project manager also complimented us on the smooth cooperation with the other suppliers for this line.

Special design Big Bag® discharge clamp

Inline safety sieve

Big Bag® discharge stations for main powder

VISIT US AT K 2007 in DUSSELDORF Hall 9, stand E68

Milling installation at Meurens Natural

Meurens Natural (Herve, Belgium) is a manufacturer of liquid and dehydrated syrups and sweeteners extracted from cereals. These natural products enable new developments in many sectors such as dairy and vegetable preparations, cereal product, baby food, etc.

Installation of intermediate silos

To increase the production efficiency and capacity and to broaden their Sipal range of syrups, Meurens invested in a new installation for the processing of malt, corn and rice.
J-Tec was chosen as the supplier of this installation.

Scope of supply

In the first stage of the project J-Tec installed three (intermediate) silos. In a second phase a building was put up over those silos, additional process components were moved in, and three outside silos were installed.

The three external silos store the raw materials: malt, corn and rice. By means of a vacuum conveying system they are transported to a separator. From there they go to a mill, via a rotary valve. After the milling the powders are stored in the intermediate silos.

The content of these silos is discharged into containers. These containers are in turn emptied by means of a specially designed discharge station. The last step of the process is the dispersion of the powders into a liquids stream.

Custom-made discharge station

The discharge station is suitable for containers as well as Big Bags®. It is equipped with a discharge mechanism that 'shakes' the Big Bag, ensuring easy emptying without the intervention of an operator. This unit can be wet-cleaned entirely. The liquids pipe can be disconnected by means of a milk coupling, and also cleaned internally.

This system was designed, in consultation with Meurens Natural, by our engineering department. Monsieur Meurens himself is very pleased with the result.

From the separator the products go to a mill

Emptying of the intermediate silos

Discharge station

Appropriate for Big Bags® and containers

J-Tec and Katoen Natie Engineering hand in hand for Alpro ROB project

For the supply of a new dehulling installation Alpro is relying on the engineers of the Katoen Natie Group. The decision to invest in their own cleaning and dehulling installation fits perfectly within Alpro's sustainable development philosophy.

The fact that the location next to the existing Alpro plant in Wevelgem (BE) became available has accelerated this strategic decision.

The enthusiasm with which Alpro engineering and J-Tec have been working, has led to a contract that has been endorsed by Bernard Deryckere (CEO Alpro) and Fernand Huts (President Katoen Natie).

The contract covers the engineering, building and commissioning of a factory for the cleaning, dehulling and storage of soybeans.

J-Tec is responsible for the entire process part, while Katoen Natie makes sure that the building itself meets the standards of the food industry.

The plant will be commissioned towards the end of 2008.

Fernand Huts emphasizes the strategic importance of the ROB project during a dinner with Katoen Natie, J-Tec and Alpro.

Bernard Deryckere (CEO Alpro)

PRODUCT NEWS

Combined bag and Big Bag® discharge station

This combined discharge station has been designed by J-Tec's R&D department in accordance with EHEDG specifications.

- High grade finish, stainless steel body
- No sharp edges, easy to clean
- Dustfree discharging of the Big Bag® with J-Tec Big Bag® discharge system
- 100% water and dust-tight door thanks to special seal (FDA approved)
- Optional : Cleaning in Place
- If necessary the station can be validated
- Finish: completely in AISI 304 or 316; product contact parts: Ra ≤0,4 μ, outside: Ra ≤ 0,8μ.

View from the reverse side