

Step by step towards an optimal process

At the POWTECH, Zeppelin Systems is presenting innovative components for the handling of bulk goods

Friedrichshafen, 1st of August 2014: Bestowing quality and realising added value are basic requirements that Zeppelin Systems places on its systems. In order to meet these requirements, the Friedrichshafen-based bulk goods specialist develops and produces all components with a decisive role to play with regard to the operating efficiency of the overall system itself. After all - nobody knows better than the developer of the whole system that even the little things can be crucial. This means that the user can rest assured that these components are tried and tested, correspond to the latest state of technology, and fit in seamlessly with the overall concept.

Example: Conveying systems

Components for the bulk goods industry must be robust and efficient. However, they can only work efficiently if the rotary feeders and diverter valves are perfectly tailored to the application. For this reason, Zeppelin Systems has completely revised its range of rotary feeders and diverter valves and has adapted these components in line with market requirements. The new product range boasts typical Zeppelin quality as well as ensuring maximum operating efficiency for daily use.

In particular, the company is presenting its dependable workhorses for low-pressure conveying systems at the POWTECH. Here, the discharge and blow-through rotary feeders A1 and D5 and the two-way diverter valve ZWV are used. In the case of medium-pressure conveying systems as of 1.5 bar delivery pressure and in the heavyweight class of high-pressure conveying systems up to 1.5 bar delivery pressure, Zeppelin Systems is showcasing the stars of their classes - the medium-pressure and high-pressure rotary feeders CFM and CFH and the diverter valves VST and TST.

Example: Silos

Often, too little attention is paid to silos in plastics processing. This is because the focus is generally placed on the processing machine and its feed system. However, sooner or later this procedure results in difficulties during ongoing production. Most problems, such as the formation of condensation and thus damp in the bulk goods, discharge problems due to a lack of knowledge on the properties of the bulk goods being processed, wear and the resulting product quality fluctuations, and insufficiently coordinated points of intersection with downstream units all have their origin in an improperly designed silo.

Many of these problems can be eliminated if you use a silo system perfectly designed for the product and local conditions. Whereas manufacturers of individual components generally simply focus on these individual components, Zeppelin Systems also has insight into the environment and challenges of the end customer. With its Key Components & Customer Service business unit, Zeppelin Systems has the required components - such as suction conveying equipment, rotary feeders, diverter valves, and silos - for systems of this kind as well as the technical process knowledge necessary to implement them. This means that all of the process engineering including conveying, dosing, mixing, dust removal, cooling, and degassing are tailored to the process itself. The range also encompasses constructional explosion protection by means of explosion pressure relief as well as preventive explosion protection through the earthing of all system parts and the avoidance of ignition sources.

Example: Mixers

Zeppelin Systems' Henschel Mixing Technology business unit is the leading provider of mixers and mixing systems for the plastics, chemicals, and foodstuffs industries. The main elements of the product portfolio are as follows:

- High-intensity mixer FM
- Process mixer MB
- Horizontal/vertical universal and cooler mixers HM, HC, HCE, KM, and HU
- Container mixers CM, CMB, CMS, and CMI
- Food mixer HMF

The applications range from plastic compounds - particularly PVC - to chemicals, additives, masterbatch, pigments, effect powder paints, fillers, and even toners and food recipes.

In the past year, the new development of the horizontal cooler mixers HC and HCE in particular have given rise to a furore. These are now well established on the market. Here, users primarily value the considerable increase in power due to the innovative double-shell design. With the cooled tool, this means an increase in power of up to 30% for mixing hard PVC.

The successful container mixer range has been enhanced by the new CMS. This development is almost ready for market launch and has been tested with extremely good mixing results. The CMS epitomises easy use and a robust, low-maintenance design. It can be used for homogenization tasks in practically every sector.

Close to the customer

Although conveying systems, silos, and mixers fulfil different tasks in the manufacturing and handling of bulk goods, they do have a lot in common, too. Customers and their requirements are always at the heart of things. One of today's requirements is short delivery times, for example.

Zeppelin Systems has reacted by shortening delivery times, too, when developing the new component range. This is evident in the number of variants, which the company has managed to reduce thanks to an innovative modular system. This means that users benefit from shorter delivery times as well as simplified spare parts management.

For an optimal silo, Zeppelin Systems offers traditional welded silos (WELD-TEC) as well as the modular variant - BOLT-TEC. The two variants are manufactured at the various shared production locations around the globe to enable the optimisation of transport costs. As well as manufacturing in Friedrichshafen, Zeppelin Systems has 20 locations around the world, including favourably situated production sites in Belgium, Brazil, and Saudi Arabia.

The service concept for mixers has been realigned, too. It includes free on-site inspections once a year by agreed appointment. This significantly increases machine availability by means of pre-emptive repairs and the replacement of wearing parts.

POWTECH, Stand 305, Hall 4

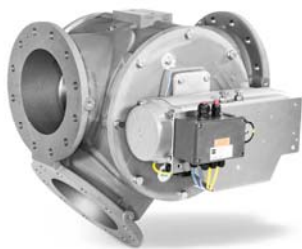
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Images: Zeppelin Systems



(Image 1): Rotary feeder CFH



(Image 2): VST-Diverter valve



(Image 3): Silo Zeppelin Systems

About ZEPPELIN GmbH

The Zeppelin Group, which operates at 190 locations worldwide with around 7,700 employees, generated sales of EUR 2.43 billion in the 2013 financial year. It is organized into five strategic business units: Construction Equipment EU and CIS (sales and servicing of construction and agricultural machinery in Europe and the CIS countries), Rental (rental and leasing of construction machines and equipment), Power Systems (drive and energy solutions), and Plant Engineering (engineering and plant engineering). ZEPPELIN GmbH is the Group's holding company, with its legal seat in Friedrichshafen, Germany, and headquarters in Garching near Munich. Detailed information is available at www.zeppelin.com.

The Strategic Business Unit (SGE) Zeppelin plant engineering with its 1.300 employees at 20 locations world-wide is specialized in the development, the production and the construction of components and systems for the handling (storage, conveying, mixing, metering and scaling) of high quality bulk materials and liquids. In this area Zeppelin Systems supports its customers from the project development phase via engineering, production, job site installation, commissioning to the after sales service. The customers of the SGE plant engineering belong to the chemical industry, plastic producers and processors, the rubber and tyre industry as well as the food and beverage industry. Detailed information is available at www.zeppelin-systems.com.