

Recommended by the leading system supplier
Bulk solids components from the specialist

Reimelt Food Technology



Innovation Tradition



Zeppelin – our name stands for willpower, innovation, proven technology and the quest for new challenges. As Count Ferdinand von Zeppelin conquered the sky more than 100 years ago with his legendary airships, the enterprise displayed above all one thing: the conviction that excellence can only be achieved by allowing visions and uniting all forces.

Engineering your success

To master processes, develop systems and know exactly what the needs of the customers are: these are the requirements for an optimal design and manufacturing of plants. Our objective is to lead in every field of business we deal with by always exhibiting top performance. We are determined to meet your needs and expectations by developing technologically advanced and efficient systems.

This is why a product, a plant or a complex system designed by Zeppelin will always be one thing – engineered for your success.

Zeppelin plant engineering – business fields

Polymer Plants

Plants for plastics producers and forwarders

Plastics Processing & Rubber Plants

Plants for the plastics processing and rubber industry

Reimelt Food Technology

Plants for the food, confectionery and bakery industry

Henschel Mixing Technology

Mixers, extruders and compounders

Liquids Processing

Plants for the beverages and pharmaceuticals industry

Silos & Filters

Silo technology and filters

Components

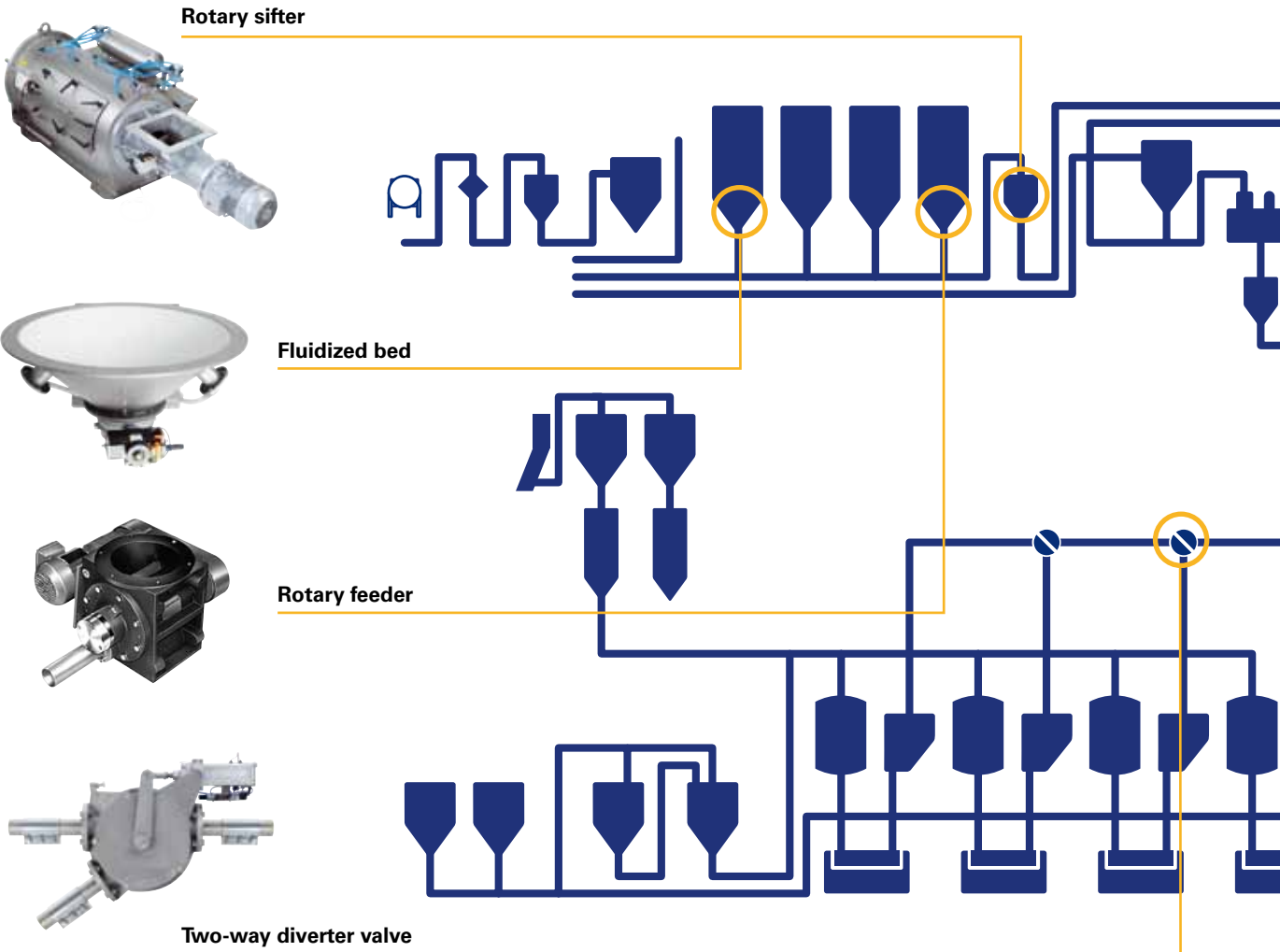
Diverter valves, rotary feeders, separators ...

Service

Assembly, maintenance and spare parts

Self-made rather than purchased

When Zeppelin pushed the development of its plant construction many years ago, it was clear to all that only unconditional quality strategy would lead to success. Therefore, we decided to develop and manufacture ourselves the key components for our plants. In the meantime we have become one of the leading system suppliers for the bulk solids and food industries and even supply our components to other enterprises. We have a good conscience about selling equipment which we actually incorporate in our systems.

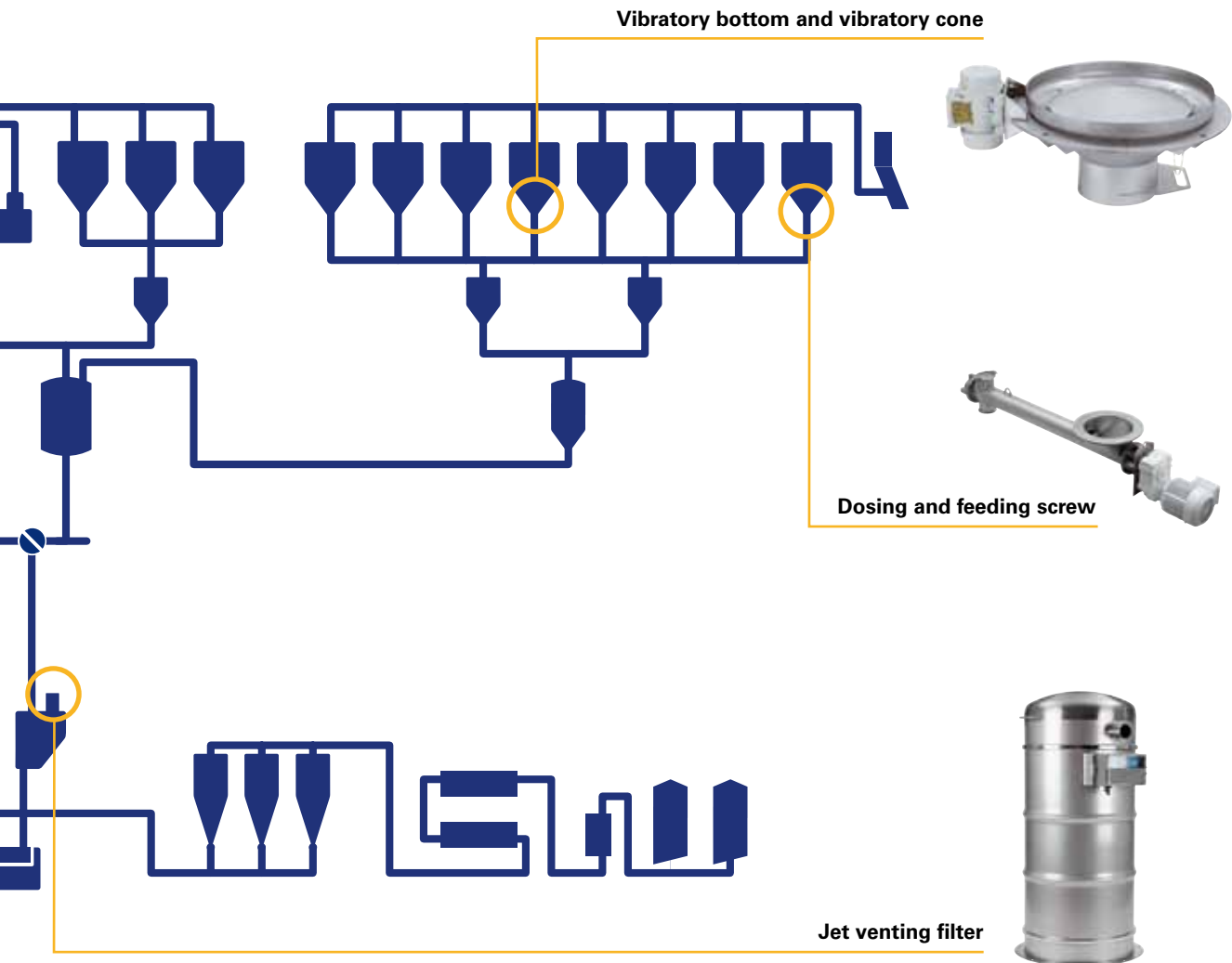


Take advantage

For the development of our components we naturally take advantage of all resources available to leading plant suppliers such as ourselves. Tests on an industrial scale are carried out in our Rödermark Technology Center. Here, new products are developed, the functionality of existing ones is tested and up-to-date processes are optimized. This includes rigorous in-house quality controls of all components by qualified staff.

At Zeppelin we can rely on excellent specialists who are masters of their trade.

The requirements to each individual component are known best by those who design and build complete systems. Our employees in development, manufacturing and installation, quality assurance and other departments are all quality experts.





All round usage

The rotary sifter is used for many applications, e.g. as pre-sifter before silos or bag filling stations, as after-sifter below containers or as in-line sifter for pressure-tight operations in pneumatic conveying systems. Sifters are used in a large variety of industries: from the food industry (e.g. bakeries) to plastics processing and pharmaceutical industries.

Rotary sifter

The compact, sturdy and low-vibration construction is made of stainless steel and aluminium. It operates using the proven rotation principle and is designed for a long-lasting superior performance with easy cleaning and removal of coarse material. The exchangeable sifter drum is made from polyester or polyamide. The feeding screw and beater bars are equipped with double bearings and sealed from the product area with additional seal rings.

Technical data

- » Pressure-tight operation up to 0.8 bar
- » Machine housing and inner components made of stainless steel
- » Inlet housing and cover made of cast aluminium alloy
- » Screw shaft directly driven by flanged motor
- » Segmented pre-sifter drum, bearing clearance purge system
- » A variety of accessories is available, special designs upon request

Providing assistance

Zeppelin has developed several components for the discharge of poor flowability bulk solids. Vibratory bottoms and cones as well as fluidized bed systems facilitate conveying of solids to the outlet.



Vibratory cone/ vibratory bottom

An unbalanced motor generates horizontal, circular vibrations which are transferred to the product column, activating the product flow and conveying of poor flowability bulk solids. The product outlet is directly mounted to the downstream equipment, creating a closed system.

Technical data

- » Made of carbon steel, stainless steel or plastic coated
- » Variable discharge bed complete with outlet nozzle
- » Suspension brackets mounted in vibration dampers
- » A variety of accessories is available, special designs upon request

Fluidized bed

The pneumatic fluidization system is suitable for all silo capacities and types. Fluidized beds ensure particularly reliable and gentle discharge of good fluidizable bulk solids (flour-like and powdery).

Technical data

- » Operating pressure of the fluidizing air: 1.6 bar
- » Fluidizing bottom made from porous, PE-based sintered plates or stainless steel plates
- » Cone with one or several air chambers
- » Inlet diameter: 640 – 2857 mm
- » Outlet diameter: 230 – 310 mm

Dosing and conveying



Direct drive dosing and conveying screws ensure dosing and conveying of bulk solids and precise scale feeding. These also comply with stringent hygiene standards.

Dosing and conveying screw

In addition to the standard stainless steel model, Zeppelin has developed a hygienic version. All interior weld seams that come in contact with the product have been ground smooth, the screw and the screw tube electrochemically polished. The inlet housings of both versions have identical connecting dimensions to allow trouble-free installation of existing connectors.

Technical data

- » Conveying pipe diameters: 80/100/150/200 mm
- » Inlet diameter: 260 – 340 mm
- » Outlet diameter: 80 – 300 mm
- » Throughput: 0.6 – 48 m³/h



Converging and directing



Our robust two-way diverter valves are designed for reliable operation in pneumatic pressure and vacuum conveying systems and diverter stations in the bulk solids industry.

Two-way diverter valve

The two-way diverter valve proves its efficiency in particular when it comes to processing hard-to-handle powders or granular products. The wear-resistant parts can easily cope with a high conveying pressure or with outdoor installations.

Technical data

- » Nominal width: 56/65/80/85/100/110/125/150/163 mm
- » Fitting length: 400 – 800 mm
- » Cast aluminium housing, cover and rotor
- » Parts in contact with the product made from stainless steel



Ensuring an excellent atmosphere

Our product range includes various jet venting filters for continuous conveying air filtration in pneumatic silos and vessels in non-stop operation.

Jet venting filters

Jet venting filters achieve a high degree of dust and powdery products separation from the exhaust air or process gases at constant filter resistance in nearly all technical applications. A pressure shock resistant filter is available as well.

Technical data

- » Diameter: 400 – 950 mm
- » Filter area: 2.3 - 35 m²
- » Vacuum-resistant design for down to 500 mbar (abs.)
- » Pressure shock resistant design for up to 1.5 bar (abs.)
- » Microprocessor-controlled automatic dedusting
- » Differential pressure monitoring (optional)



JE/JS - BE/BS



DE/DS



UE/US

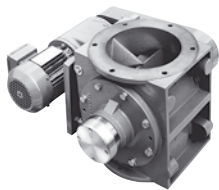


Dosing and discharge

Dosing and discharge of bulk solids play a crucial role in raw materials handling and require accurately functioning components.

Rotary feeders

Discharge valves

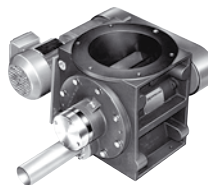


A1/4, AG11/14



CFM

Blow-through valves



D5/D6

Rotary feeders are used for dosing and discharge of bulk solids in the chemical and food industries. They are installed below silos and vessels or in separating stations and pneumatic pressure and vacuum conveying systems. The rotary feeders are appropriate for handling all types of powdery and granular products including hard-to-handle materials without problems.

Technical data

- » Available as discharge or blow-through type
- » Pressure-resistant according to specifications
- » Chamber capacity ranging from 2.5 to 197 l
- » Materials: aluminium/stainless steel/gray cast iron
- » Design in accordance with ATEX, a pressure shock resistant and flame proof type as well as a quick-cleaning version are available upon request

Everything for the benefit of our customers



You can rely on Zeppelin Reimelt's
first-class service.

Our job doesn't end with the design of your plant or the installation of your component; we also carry out the assembly and commissioning – all over the world. You can rely on us whether for employee trainings, professional instruction in production processes, proper maintenance, safe operation of the controls or the development of safety standards.

Naturally, we also provide maintenance, carry out inspections and repairs and offer a spare parts service.

Second to none technology The people at Zeppelin



Whether partner, supplier or entrepreneur – it's the people that make a difference. Zeppelin values teamwork within the global network, in collaboration with our customers or in one of the many project groups that actively contribute to our common success.

Because we know that outstanding technology alone does not make you successful internationally. For that, you also need employees that are able to meet the local requirements and make use of our worldwide expertise.

That's why you will find Zeppelin in every corner of the world where functionality and reliable operation are highly valued.



Global presence

- » Belgium
- » Brazil
- » China
- » France
- » Germany
- » India
- » Italy
- » Korea
- » Russia
- » Saudi Arabia
- » Singapore
- » United Kingdom
- » USA

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Edition 01/12 | 11-0042
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