

Silo System ApS.

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Raw materials

- refined handling



Commissioned work

Good products require high quality raw materials – and high quality raw materials require high quality handling. However, no two types of raw material display the same characteristics, nor do they behave in quite the same way when exposed to the same conditions. In fact, the process of putting together the perfect handling solution for any given job demands an in-depth knowledge of the product and the materials used, and high levels of engineering and technological know-how and expertise.

No two customers are alike

Silo System has the know-how and experience necessary to develop specific solutions for specific tasks. And we have the products – tried and tested, standardised units – that have been designed to deal with everything from the entire production process, to the quality of the end product. Silo System leaves nothing to chance. We listen carefully to the individual customer's wishes and requirements, and then piece together the solution most suited to this particular customer and the job at hand.

Dealing with quality and processes

Seen from a handling point of view, raw materials fall into two main groups: dry materials and fluids. When it comes to production solutions and quality, however, Silo System thinks and plans holistically; solving the handling demands for a particular type of raw material is only half the battle. Every step in the production process must contribute to optimizing the total process – everything from establishing the actual flow, to the operating system, which controls the entire process.

Dry raw materials

Dry raw material can be categorized as follows: powder, granulates, whole grain, and cut and rolled grain. Generally speaking, the same handling process applies to all types of materials, i.e. storage in a silo, transport, sifting, and weighing. But the equipment best suited to solve any one process depends very much on the characteristics of the raw material in question.

Silos

The job of a silo is to retain intact the various qualities inherent to any particular raw material and thereby ensure that future handling and processing can be carried out without problems. Therefore, Silo System's standard range of silos offers so many possibilities for specializing that there is a silo available for every conceivable assignment. Silos, which are produced in aluminium or stainless steel, are available in a range of capacities from 4 tons upwards. They can be cylindrical or square in shape, there is a choice of several top filters, and explosion relief panels are optional.

Both indoor and outdoor silos are available. For outdoor storage of hygroscopic raw materials such as salt and sugar, silo installations are equipped with insulated housings, temperature control features, and dehumidifiers.



Transport and sifting

Silo System operates mainly with pneumatic transport units, as these provide the most effective discharge methods and the highest standard of hygiene. Any chosen solution can be fitted with one of a wide range of sifters for the removal of unwanted particles – without significantly affecting the flow of the transport system.

Weighing

The quality of the end product depends on the weighing and discharging procedures being accomplished with unerring precision. At the same time, a healthy working environment requires that as little dust as possible is created. Silo System products meet both requirements. We use electronic cyclone weigher. These are precise, have enclosed top filters, discharge aid systems, and dust lids. And they are available in many sizes. They are delivered with wall mounting brackets, a support stand fixed to the floor, or mounted on travelling rails.



The ingredients' unit

Fine ingredients make up a special area that requires extremely precise dosage. Silo System has developed two standard designs. However, the use of fine ingredients is very much a customised process, so more often than not we tailor our solutions to suit our customers. These solutions are always based in highly effective basic principles combined with the appropriate standard components in such a way as to best suit the particular situation.

Fluids

Yeast solutions, syrup, fat, and similar products also require special handling procedures. These fluid raw materials require high standards with regard to temperature control, ease of cleaning, and accuracy of dosage. The Silo System range of products is so versatile that it allows us to put together systems that take all such considerations into account.

Control systems

Silo System has developed its own specially designed, reliable control systems to ensure a perfect flow in the process line. The level of automation is suited to the particular job in question, ranging from the simplest solution to the ultimate in advanced computer control, providing a complete overview of the entire process. An additional gain is a new level of flexibility, which makes it possible to carry out frequent, rapid changes of production with no resultant loss of efficiency. This level of control can provide the key to obtaining even the most demanding international certifications.

Total automation is not only a guarantee for quality, but a guarantee for the future, too.