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KREYENBORG elaborates tailored customer solutions for the storage of special products

Specialization in Special Silo Solutions

September 2019 - The core competences of KREYENBORG GmbH & Co. KG from Senden in Westphalia, Germany, are the individual and customized design and manufacture of Silos for the storage of materials with low bulk densities of 0.05 up to 0.1 kg/dm3. Fibers, fluff, powder and film flakes have poor rheological properties and tend to bridging – these are applications calling for Special Design Silos. KREYENBORG has just realized a Special Silo with many optional extras for the storage of fibers.

“Knowing the customer’s requirements, the properties of the materials and the constructional features of the production environment perfectly: these are the nuts and bolts in the design of Silos for poorly flowing materials”, explains Matthias Draganski, Sales Manager at KREYENBORG. The machine manufacturer realizes tailor-made Special Silo constructions made of steel or stainless steel for his customers on a regular basis, with volumes between 3 and 40m3. The important thing to make sure in this activity is the accurate design of the outer dimensions of the Silo, especially when the hall ceiling is limited in height, to ensure the safe and reliable transport of the material stock into the Silo and out of it and for the perfect protection of this material inside the Silo.

The stainless steel Silo that has just been built and installed in the customer’s plant has a volumetric capacity of 12 m3 and has been designed with very few dead spots according to the customer’s special requests. Apart from these particularities, the Silo had to meet the ATEX guidelines of the European Union, because the fibres are moistened with a flammable liquid. The Silo meets the requirements of zone 0 inside and of zone 1 outside and is additionally supplied with an inert gas through several DIN flanges.

KREYENBORG has incorporated two manholes in the Silo for control and maintenance measures, which are even designed aseptically in this case to prevent contamination. The other particularities of the Silo are, among other

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things, separate agitators beneath the inlet flange, which prevents the formation of material columns. During storage in the Silo, the agitator arm ensures the regular movement of the material and transport towards the discharge screws. Two big trough screws mounted underneath the Silo are available for discharge of the previously weighed material.

Consequently, special solutions are the standard in Silos made by KREYENBORG. Other options available are designs allowing the tangential filling by means of a pressure conveying device and the conical design of the entire Silo, to facilitate the smooth sliding of the material. Even roof railing and vertical ladders including safety cages and many other options and sizes can be realized.

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About eFACTOR3, LLC

Headquartered in Charlotte, North Carolina, eFACTOR3, LLC brings together a keen understanding of environmental, engineering and equipment issues. The company offers a variety of pre-shredding, shredding and granulating equipment, along with conveying and separation equipment, systems integration and installation.

eFACTOR3 also represents KREYENBORG whose Infrared Drying Technology offers the ability to dry and crystalize materials in minutes instead of hours, significantly reducing change over times and energy consumption.

Whatever you intend to recycle or turn into alternative fuel, eFACTOR3 can provide a custom solution.

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