

JACOB PIPEWORK SYSTEMS IN THE MILL INDUSTRY



■ THE PROJECT

Cramer-Mühle KG in Schweinfurt invested in the extension of its production line. For the transport of grain and flour as well as the extraction of dusts, the company employed the reliable modular pipework system of JACOB. The production and storage systems of the Cramer mill reflect, thanks to modernization and new machines, state-of-the-art technology. The grain mill has a production capacity of 800 tons per day. In the large grain silos with a storage capacity of 30,000 tons, the various quality grades are stored separately and milled separately.

■ THE DESIGN

During the extension project, the JACOB pipes were used in a major portion of the plant. Cramer especially appreciates the easy installation of the modular pipe system. As a result, the installation and dismantling for maintenance and cleaning purposes is achieved quickly, reducing the time of production interruptions. Thanks to quick-acting clamping rings and border sealing rings, this is one of JACOB's special areas of competence. As Cramer works with hygiene-sensitive products, the quality requirements for the pipe system are correspondingly high. Thanks to a high-quality stainless steel design, JACOB pipework systems offer a perfect solution likewise in this area.

THE SPECIAL FEATURE

JACOB pipework systems are used on the premises of Cramer mill in view of the high quality standards. As the handling of food is concerned, components of high-quality stainless steel were used exclusively. In addition, materials with a high corrosion resistance are required in the food industry to enable their thorough cleaning and disinfection. Also in this context, the high-quality stainless steels of the JACOB pipework system proved successful. With the electrically conductive EPDM border sealing rings, the transport pipe was equipped according to ATEX-standards and the electrostatic charge is removed in an uncomplicated manner. This prevents the risk of a flour dust explosion. The selected lines were designed in the diameter range of DN 120/150 millimetres to DN 200 millimetres of stainless steel and have a wall thickness of one to three millimetres. The two millimetre thick pipework system is 3 bar explosion pressure resistant in connection with the easy-to-install QUICK CONNECT clamping rings. The complete system based on a modular assembly principle of pipe components and moulded parts covers an overall length of 1500 metres.

The grain silos of Cramer have a storage capacity of 30,000 tons.



The modular system is perfectly suitable for the requirements of bulk goods handling.



THE CUSTOMER

Cramer-Mühle KG in Schweinfurt is a highly advanced company that produces according to the latest technical standards. Since its beginnings in 1806, Cramer has continuously increased production and ranges among the leading mills in Bavaria today. The quality wheat grown in the Mainfranken region is the basis for flour of the highest quality grades. The high quality awareness is demonstrated by the certification according to IFS and HACCP, which is, for example, intended to avoid risks in connection with food that might lead to diseases in consumers.

Conductive EPDM border sealing rings prevent the risk of a flour dust explosion.



For highest standards:

