JACOB ROHRSYSTEME in the milling industry

The client

The company Cramer-Mühle KG in Schweinfurt is an ultra-modern company that manufactures according to the latest technical standards. Since its beginnings in the year 1806, Cramer has consistently increased its production and is now one of the leading mills in the Free State of Bavaria. The high-quality wheat grown in the Mainfranken region of Germany provides the basis for the mill’s premium-quality flours. The company’s high focus on quality is demonstrated by its IFS and HACCP certification which is designed, among other things, to prevent food-related health hazards that can cause consumer illness.

The system

During an investment project to extend the production line, a decision was made to opt for the flexible and value-retaining JACOB pipework system. The technology used in the production and warehousing at Cramer-Mühle is state-of-the-art thanks to modernisation measures and new machinery. The grain mill produces as much as 800 metric tons within 24 hours. The various quality grades are stored in the large grain silos holding 30,000 metric tonnes, and are milled separately. The installation-friendly JACOB pipework systems are used both in the mill as well as for dust extraction, and their use extends to large sections of the system following an expansion of the system’s capacity. Thanks to the FOOD GRADE line, JACOB pipework systems provide a convincing solution for hygienically sensitive products.

The implementation

JACOB pipework systems are used in the Cramer-Mühle facility due to the stringent quality demands of this application. The pipework selected was designed in stainless steel, with diameters of DN 120/150 mm to DN 200 mm and a wall thickness of 1-2 mm. The 2 mm-thick pipework system, in conjunction with the installation-friendly, two-part quick-release pull-rings, is shock-explosion proof to 3 bar pressure. With the FDA-compliant, electrically-conductive EPDM U-shaped seals, the pipework was designed to conform to ATEX, and the electrostatic charge can be discharged without any problem. Materials with high anti-corrosion resistance are required in the food industry, in particular, to allow them to be thoroughly cleaned and disinfected. The installation-friendliness, easy-clean properties and tight connections provided by JACOB pull-rings meet these requirements ideally. The complete modular system of pipework and fittings extends from pipe sections, elbows, pull-rings, segments, forks, conical pieces to hand-operated or pneumatic two-way valves, and comprises a total length of some 1500 metres.