

JACOB TUBING SYSTEMS IN THE MILLING INDUSTRY



■ THE PROJECT

The technology center at Kansas State University (KSU) operates a typical full-scale mill that meets state-of-the-art standards. This mill provides students and skilled workers at the mill with the ideal practical operating conditions of a real working mill. The ultramodern plant is also used for research and development projects on behalf of, or in cooperation with, businesses from industry. In addition, visits and demonstrations for businesses in the milling industry who are planning investments to modernize or expand their existing plant are very popular with visitors.

■ THE DESIGN

The unique conditions for students at the university were made possible by support from renowned sponsors. These sponsors include JACOB Tubing, Memphis, Tennessee, a JACOB ROHRSYSTEME subsidiary. In the US, "German engineering" enjoys an excellent reputation. Therefore, the JACOB modular tubing system was used across the entire production line. Tubes and fittings from all JACOB product groups were used. These include components such as conveying tubes, elbows, laterals, pull-rings, flanges, inspection ports, regulators and shut-off valves, and multi-port diverters.

■ THE SPECIAL FEATURE

The components all came from the standard range from 2 1/4" - 31 1/2" (60 - 800mm) in diameter, primed, galvanized and stainless steel, in wall thicknesses of 19 gauge (1mm) to 11 gauge (3mm). The advantages of the modular system are of particular interest for the US market, which up to now has frequently used heavy flanged tubing systems that always need to be adapted or welded on site. For most applications, the installation-friendly JACOB modular system covers the stringent quality specifications, particularly in terms of the leakage values and shock explosion proof requirements (to 3-bar (43psi) over pressure; 10-bar (145psi) also possible). The QUICK CONNECT principle using pull-rings offers unbeatable advantages over conventional systems with its particularly fast assembly and dismantling capability for maintenance or cleaning. These advantages also apply to its capability to convey all types of bulk goods in virtually every industry, such as the food, beverage and tobacco industry, feed mills, the chemical, pharmaceutical and plastics industry, automotive engineering, the chip industry, mechanical engineering, paper manufacturing and the building materials industry. Where there's a mill, there's dust. For this reason, the JACOB system is used for eliminating both dust and exhaust air as well as for extracting oil mist and vapor.

■ THE CUSTOMER

Kansas State University (also called K-State) is a state university in Manhattan in Northeast Kansas. It is the oldest state university in Kansas and the second largest after the University of Kansas. The university was established on February 16, 1863 as Kansas State Agricultural College.

The modular system is perfectly suited to the requirements of the milling industry.



Ideal practical conditions offered by a real working production plant.



Fast maintenance and cleaning thanks to the QUICK CONNECT principle.



For highest standards:

