

JACOB TUBING SYSTEMS IN THE ANIMAL FEED INDUSTRY



■ THE PLANT

The feed mill in Lidköping, Sweden, was developed and upgraded - by Schlösser Plant Engineering into an ultra-modern production facility for livestock feed. The project was commissioned by the leading Swedish feed manufacturer Lantmannen. The extensive investment project at this site was to be planned and realized in stages within the various areas of the plant, and was as far as possible to be without any loss of production. Once the last development phase is completed the largest Swedish feed mill will produce some 270,000 tons of compound feed for cattle, pigs and poultry each year.

The modernization also encompassed the entire equipment for

storing and dispersing the raw materials and finished feed products, a total of 54 silos in all, each with a capacity of 900 to 1,300 cubic yards. The ultra-modern plant equipment includes mixers, chain conveyors and elevators, grinding, mixing and dosing machines and also the press lines, all of which are state-of-the-art. The micro and macro component dosing machine alone comprises 56 silos with a capacity of 13 to 130 cubic yards. The ambitious project will be concluded with the installation of the ship unloading equipment, big bag filling station and four additional press and coating lines. The last component will be the system for transferring the finished product to the truck loading device. The plant equipment used includes the JACOB tubing system.

■ **THE IMPLEMENTATION**

The decision to use the JACOB tubing system in diameters of 150mm (6") to 300mm (12") was the result of the high standard of quality required, particularly in view of the tightness and shock explosion proof requirement to 3 bar overpressure, plus the quick assembly or disassembly for maintenance due to the QUICK CONNECT® principle. A wall thickness of 3mm was selected either in carbon or galvanized steel. The complete modular system of tubes and components includes parts such as bends, segments, forks, conical pieces as well as pneumatically-operating throttle valves and shutoff valves. JACOB two-way valves direct the flow of bulk goods alternately to different production lines in the animal feed mill. A particularly installation-friendly solution was implemented with the use of JACOB pull-rings for connecting the components of the tubing system. Precision quality in mass production was called for here. This precision quality is demonstrated in the perfect fit between the pull ring profile with sealing ring and the precision flanged edge of the tubing. In this way, optimal stability and tightness is guaranteed during operation. At the same time, quick disassembly and re-assembly is possible for maintenance and cleaning. If the equipment becomes electrostatically charged, explosion protection is provided by the grounding wires fitted in the tubing system. The grounding lugs were welded to the tubing system prior to delivery from the factory.

Where there is production there is dust, which is also extracted through JACOB tubing system.

■ **THE CUSTOMER**

The Schlösser GmbH Anlagentechnik in Hennef with its engineering services is an expert partner for planning, delivering and installing turn-key industrial plants. The company has almost forty years experience in plant engineering in a wide range of industrial sectors.



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JACOB TUBING L.P.
3948 Willow Lake Blvd.
Memphis, TN 38118 USA
T +1 901 566 1110
F +1 901 566 1910
info@jacob-tubing.com
www.jacob-tubing.com

**FR. JACOB SÖHNE
GMBH & CO. KG**
Germany
T +49 571 9558-0
post@jacob-rohre.de
www.jacob-rohre.de

SALES GERMANY
T +49 571 9558-200
vertrieb@jacob-rohre.de

JACOB (UK) LIMITED
United Kingdom
T +44 1694 722841
sales@jacob-uk.com

JACOB DOSATEC SARL
France
T +33 1 39594758
infos@jacob-dosatec.fr

EUROTUBI S.R.L.
Italy
T +39 0386 41997
info@eurotubi.it