

CASE STUDY

JACOB TUBING SYSTEMS IN USE

JACOB

NO. 1 IN TUBING SYSTEMS

JACOB TUBING SYSTEMS IN THE SNACK FOOD INDUSTRY



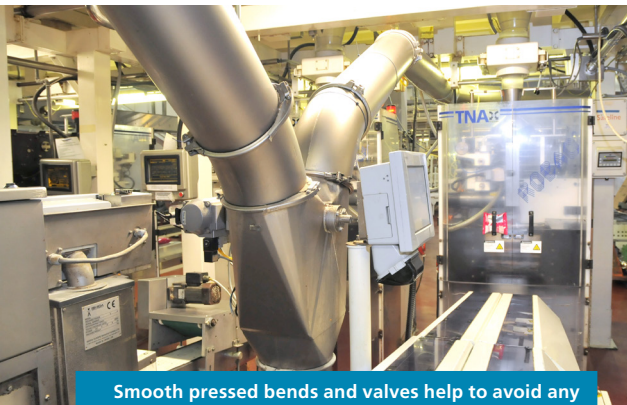
Tayto Group produces over 2 million packs a day at its factory in Scunthorpe. The application of air conveying systems for snack foods is increasingly popular among both large and small manufacturers. Apart from the lower cost of installation, the main benefit is the flexibility it affords to plant design and layout.

THE PROJECT

Tayto makes numerous pack formats and so must be able to quickly direct the bagged product to the appropriate multi-packing machines. JACOB delivered the tubing system for Tayto, using the advantage of modular design to optimize plant layout.

THE IMPLEMENTATION

The modular tubing air conveying system supplied by JACOB for Tayto is believed to be the largest installation of its kind in the UK. It is based on 8" (200 mm) diameter thin-walled 19 gauge (1 mm) thick stainless steel tubes measuring up to 6 1/2 feet (2 m) long, each with a precision machine lipped end designed to accept a Keltan (EPDM) 'U' shaped gasket and pull ring connector for an air tight connection. The bi-directional air conveying lines have speed controls to cater to variations in product weight. The installation process was quick with minimal disruption to the operation of the plant. The majority of the JACOB tubing system is located high above the plant but still accessible.



Smooth pressed bends and valves help to avoid any product damage occurring.



Fast reaction diverter valves maintain optimum capacity at the packing heads.



JACOB Stainless systems comply with EC 1935/2004 plus FDA sanitary standards.

ITS UNIQUENESS

The JACOB stainless steel modular tube sections feed products to multiple packing lines up to 144 feet (44 m) from where the chips and snacks are bagged. By using the air conveying system rather than conventional mechanical conveyors, Tayto is able to save space and have much greater flexibility in how they feed the packing lines. The connections of the system allow earthing continuity to eliminate static electricity and the whole system is designed to optimise product flow. A pressure certified connection is created which has the advantage of providing electrical conductivity with the added benefit of being ATEX compliant. The thin-walled ducting sections are easily dismantled and re-connected using the QUICK CONNECT pull-ring system designed and manufactured by JACOB. Air movement within a JACOB tubing line is enhanced with the smooth-pressed bends, which assist airflow with the minimum of resistance. Standard accessories include inspection doors, sight glasses, diverters, product-control and air-control valves, all manufactured to high tolerances. With tubes diameters from 2 1/3" (60 mm) to 63" (1600 mm) and a comprehensive range of forks, bends, T pieces, valves and distributors, JACOB modular tubing is ideal for creating an efficient and flexible system, which can adapt to changing requirements.

THE COMPANY

Tayto Group is the UK's largest family-owned manufacturer of chips and snack foods with the Golden Wonder, REAL and Mr Porky brands. It's Scunthorpe factory makes products ranging from 0.6 to 6 ounces (18 - 175 g) that are packed either as single bags or mutli-packs.



**QUICK
CONNECT**



**FOOD
GRADE**
EG/EC 1935/2004 plus FDA

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