

Georg Fischer takes off with „super Airbus“

The industrial corporation supplies components for the A380

The Airbus A380 is the world's largest and most modern passenger aircraft. State-of-the-art technologies for materials, systems and industrial processes make it the roomiest and most efficient aircraft of all times. The double-decker standard version carries 555 passengers. Georg Fischer, the specialist for piping systems made of high-performance plastics, is involved in the success of this „flagship of the 21st century“, supplying components for the ventilation and air conditioning systems.



The foundation stone for the close and successful cooperation was laid ten years ago, when Airbus engineers were seeking innovative materials and solutions that would help them make their processes and components even more effective. Shortly after the initial contact in 1995, Georg Fischer DEKA presented sample pipes made of a special polymer plastic to the aircraft giant's engineers. This material is highly robust and boasts a wide spectrum of possible wall thicknesses. It also meets the strict specifications of Airbus with regard to safety and fire behaviour.

Georg Fischer also developed a special process for bending the pipes so as to adapt them to the geometry and various construction conditions of the different Airbus aircraft versions. The process resulted in significant savings both in costs and weight. „Manufacturing high-quality products is not the only challenge“, says Christof Mosler, Managing Director of Georg Fischer DEKA GmbH. „When addressing user-specific problems, we also have to incorporate new materials in order to come up with the best solutions for that particular customer“. Since Georg Fischer started

working with Airbus in 1995, it has added other components to its programme; Georg Fischer products can now be found in all the manufacturer's wide-bodied aircraft.

High-tech plastics

Leading-edge plastic piping solutions are found today not only in the aircraft industry but also in sectors as widely differing as chemicals, medical technology, aerospace, automobiles and clean room technology.

The people at Georg Fischer DEKA have been working on this plastic and its applications for piping systems for more than four decades now. The know-how they have gained with the material – which was a revolutionary breakthrough in its time – has made the company an acknowledged centre of excellence for plastic pipes for industrial uses. As Mosler says, „High-tech plastics have such a variety of properties that no other material can really match their economic, ecological and technical advantages. So with our solutions we're well equipped to meet the market's expectations – now and in future.“

The bottom line

A responsible mindset

The key elements for a company's long-term success are close proximity to actual practice, a learning atmosphere, staff continuity, an extremely flexible but natural structure and a constant flow of information between all the partners involved."

Christof Mosler, Managing Director, Georg Fischer DEKA GmbH

A380: Giant of the skies

Technology and innovation

The ultimate passenger aircraft ...

...is being built simultaneously at 16 manufacturing sites and will come into service in 2006 after almost ten years of development.

The A380 meets the strictest international certification standards.

With the A380's modern technology and efficiency, the operating costs per seat and kilometre are 15-20 percent lower than those of the largest aircraft flying today. At the same time, its range is 10 percent greater than that of other large planes.

The aircraft is pioneering cutting-edge technology.

Composites and other weight-saving materials are replacing traditional metals. Fuel consumption in the A380 is less than three litres per passenger per 100 kilometres. This reduces emissions and the plane's environmental impact.

Georg Fischer DEKA GmbH

Modern plastic piping systems for the world

For more than 40 years

The product portfolio of Georg Fischer DEKA comprises a unique selection of different thermoplastic pipes for industrial applications (pressure pipes, liner pipes, ventilation pipes, pipe semis and pneumatic post systems).

Research and development

The core task of R&D is to steadily improve existing materials and solutions. In this endeavour, the company works closely with universities, technical institutes and the plastic-processing industry.

Quality and the environment

DEKA customers set very high standards as regards the safety and quality of their piping systems. The high-tech plastics used by DEKA are not comparable with any other material in economic, ecological and technical terms. Over 90 percent of the plastic waste generated in production is recycled.

«Adding Quality to People's Lives»

Innovative plastics for travel comfort

„Breathe easy“

The ventilation and air conditioning provides fresh air and pleasant temperatures inside the aircraft with a minimum of energy consumption. The right ambient temperature is important for the well-being and comfort of passengers.