Portrait of a Company

The World of Plastic Piping Systems
Modern Plastic Pipe Systems

and their versatile application

At Georg Fischer DEKA, people of different educational backgrounds have been involved with plastic pipes for more than fifty years.

Some 110 employees make sure that the once revolutionary discovery of plastics remains a topic of conversation because of the development of superlative plastic piping.

In this way the world of plastics – for us plastic pipes – has become larger.

There is hardly an industrial sector which has not taken advantage of plastic materials or components.

Nowadays, modern plastic piping systems can be found in the chemical industry, in medical technology, air and aeronautical engineering, the automotive industry, clean-room environments, ventilation systems (for example in hospitals) and in sanitary installations.
Application
Aside from standard pipe applications the small market of industrial piping follows its own peculiarities, that have to be considered when acting as a supplier:

- Highly individual list of requirements
- Central importance of the chemical resistance
- Versatility of relevant polymers / products and dimensional range
- Strongly developed attitude of the end-customer concerning aspects like quality, safety issues, service and technical background
- Highest quality demand along the entire supply chain
- Importance of continuous practical experience and market-orientation of the processor
- High potential for innovation

It is not worth mentioning that negative and somewhat simple connotations of the word “plastic” are merely a historical issue.

High-tech plastics like PPS, PEI, PSU (and many others) are so versatile that they have become economically, ecologically and technically irreplaceable.
The History
History

1960  Founded in Biedenkopf/ Lahn, Germany, to produce plastic pipes (PE, PP, PVC-U, PVC-C, etc.) for industrial engineering in the chemical process industry

1986  Expansion of the Liner- and ventilation pipes portfolio by acquisition of the Dynamit Nobel TROVIDUR piping segment (PVC and PVC-C) up to Ø 600mm

1994  Certification according to DIN ISO 9001
      Launch of the high-tech material pipe-production out of PSU and PEI

1998  Integration into the Georg Fischer Corporation as „Georg Fischer DEKA GmbH“

2002  Certification according to DIN ISO 14001
      Integration of the ABS pressure pipe production up to Ø 110mm into the product portfolio

2003  Launch of the PVC-C sheet-production

2004  Launch of the PPS-High-Tech pipes production for exhaust-gas applications

2006  Certification according to DIN ISO 9100
      Expansion of the ABS product range up to Ø 225mm

2008  New flexible high level - storage system and logistics for ABS Cool Fit

2009  OHSAS (work-safety) certification according to DIN ISO 18001
      Production of housing pipes for electric components (PPO – Noryl)

2010  FM – Approval for PE 100 pipes
      50th Company Anniversary
      Solvin Innovation Award in Gold for Photobioreactor pipes based on transparent PVC-U

2012  Launch of the halogen - free pneumatic dispatch systems and hollow bar production up to Ø 500mm for PE and PP

2013  Enlargement of the PE 100 portfolio up to Ø 450/ 500mm for SDR 11 and SDR 17.6

2014  Energy Management Certification according to DIN ISO 50001
      Market launch of DEKADUR Plus liner program
The Philosophy

“We are the competent and globally acting partner in fabrication of high quality pipes for application in industry and chemical engineering as well as custom-oriented solutions and commercialization of pipes.”

Gerhard Wewior
Managing director
Research and Development
Manufacturing standard parts of constant high quality is one thing. Making the right decisions about the best applications for specific new materials is another.

Scrutinizing of existing concepts and material-approaches as well as their active improvement to shape the next generation of products and innovative applications is the key-mission of our development staff.

It is a major concern of ours to do this kind of work in steady coordination with the respective lead-users and selected suppliers. In the course of this we also rely on our welldeveloped network to universities, institutes and the strategic partnerships within the polymer-processing industry.

Proceeding this way also ensures that Georg Fischer DEKA is always involved in both solving actual market questions as well as novel material trends in industrial piping.

Our activities to stepwise integrate the class of high-temperature-resistant polymers (e.g. PPS, PAI, PEI; PSU) in novel applications into our product portfolio is a well-suited example for this kind of activity.

The range of suppliers for the „genuine“ industrial market for polymer piping systems is very restricted – the responsibility is high and the issues treated are quite complex.

For more than 50 years Georg Fischer DEKA has very successfully faced that challenge. Based on our development and production of high-quality piping products for chemical industry and industrial engineering Georg Fischer DEKA has done a lot of pioneer-work thereby gaining influence over technical development in this segment (e.g. the use of C-PVC or beta PPH).

The versatility of polymers processed at Georg Fischer DEKA, the continuity of strategy and staff as well as the steady development of technology applied accompanied by a deep understanding of the relevant aspects along the supply chain qualify Georg Fischer DEKA as a centre of competence unique in the global market.
Extrusion Processes

The name Georg Fischer DEKA is synonymous with high-quality products, each having special properties designed for its specific range of application.

A prerequisite for all this are facilities with powerful extruding machines, computer-controlled mixing equipment, and with the strictest quality control and management possible.

The basis of our long success is our employees’ know-how and experience, their openness to innovation and their motivation.
This involves the choice of the most suitable materials, and expert understanding of the formulations required, a discriminating use of the processing machinery and continuous quality control. In this way every Georg Fischer DEKA pipe is a unique product.

At the moment over 90% of the plastic waste material in our factory is recycled. The material is used in the company to make correspondingly labelled pipes and fittings. Alternatively it is processed by external contractors.
Tailored Formulations, Compounding, Customizing
Further Processing / Enhancement / Customizing

A section of the Georg Fischer DEKA company in which piping systems and fittings can be further processed, i.e. modified or upgraded, is of particular significance. With the help of computer-controlled technology, the parts can be changed in shape, bent, drilled, milled, welded etc. – always with their specific application in mind.

Parts with special dimensions, profiles, colour, length or composition can also be made. In this way products can be put to use faster. There is a cost saving in both time and transport. Further processing of pipes to highly custom specific systems, products or entire modules is a peculiarity and core-competence of Georg Fischer DEKA.

Georg Fischer DEKA – Your reliable option for custom-made premium but economical products.
Stock, Logistics and Presence in the Market

Pipes of over 500 different sizes are kept in our warehouse, which is unique in size in the entire of Europe, for instant delivery – safe, dry (UV-)protected and clean.

Five Georg Fischer DEKA dedicated vehicles, working to a regular schedule, are able to deliver products reliably and punctually within Germany, the Netherlands and Switzerland.

External freight carriers handle the transportation to other international destinations.
Georg Fischer DEKA has been a market leader within the branch for decades worldwide. In certain parts of its large programme it is the only company which can produce the goods required. Georg Fischer DEKA pipe systems can be found all over the world.

For this reason, you will see Georg Fischer DEKA participating in trade fairs around the world, staying in touch with its customer base.