

Specific fields of application

# Pipe refining Processing Customizing



# Customized extrusion

The name Georg Fischer DEKA GmbH implies high quality products with very individual characteristics, custom-made for special applications.

The precondition for it is highly equipped machinery with efficient extrusion lines, a computer-controlled mixing unit and a strict quality management with all essential control systems.

The basis for this long-standing and continuous success was and is formed by experience, know-how, the will for innovation and highly motivated staff.











It begins with a selection of the most suitable raw material, the conception of mixtures, the differentiated adjustment of production lines, as well as the monitoring and quality controls of them.

Presently, the company recycles over 90% of all plastics waste which is incurred during production. This material is used again in other productions for certain branded pipes and fittings of GF DEKA or external fabricators.





# Plastics processing

One special department of DEKA deals with the topic of customizing.

It adds significant value to DEKA pipe elements and fittings for user-specific applications.

This saves costs: Delivery times are shortened and the products are processed perfectly during additional steps with technical know-how in our company. With modern CNC-technology pipe elements get milled, staked, bent, drilled, swiveled and much more.

Our staff has long-time experience and the necessary qualifications in different treatment procedures. Therefore, we have the ability to realize each differentiated design within the scope of customized manufacture or a complete module fabrication.











# Machining technology

Machining can be used in production of single parts, small batches and parts with complex structure. Machining is also an option if production with other processes is impossible or too difficult.

## **Boreholes**

in various diameters, distances as well as in precisely defined angles.

## **Milled slots**

in different sizes and distances.

## **Surface milling**

Grooves in various width and depth.

## **Pipe slits**

in different apertures. Furthermore, techniques as milling and cutting are also available.



# Customizing





## Chipless / thermal forming:

Bending, pressure forming, shaping and pressure shaping. Thermoplastics are getting rubbery – elastic and expandable due to heating and can be formed easily with lower force.

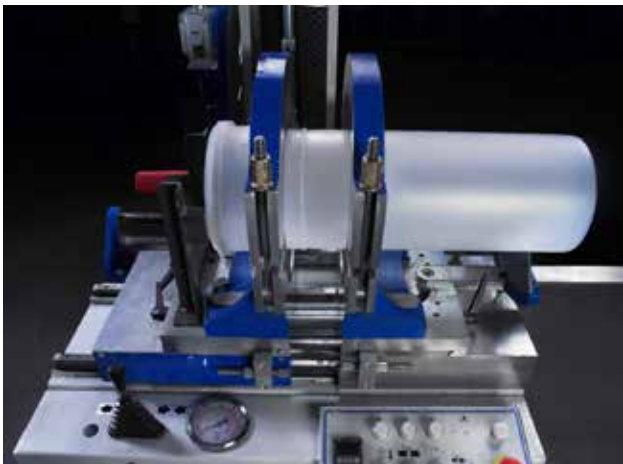
By cooling down whilst retaining the force, thermoplastics will become form-stable again and keep their given form.

### **Bonding**

Adhesion as well as diffusion bonding is possible.

### **Welding**

A plastic welding means connecting thermoplastic materials by heat and pressure.





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