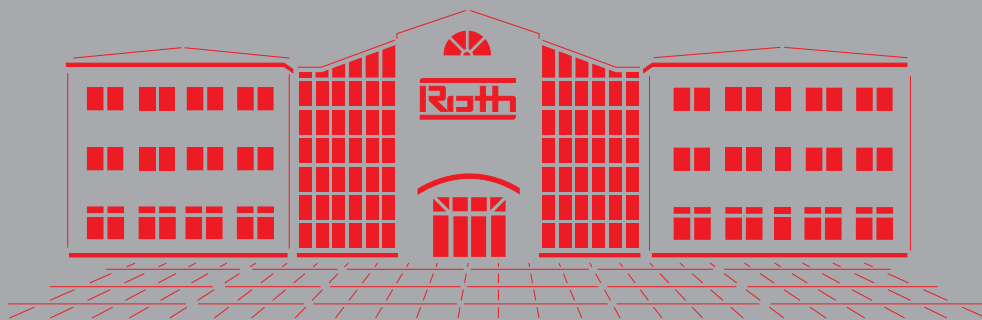


**Riath**









## Shareholders in the Roth family business

(from left to right)

**Dipl.-Kffr. Christin Roth-Jäger**  
(since 2004)

**Dipl.-Vw. Manfred Roth**  
(since 1961)

**Dipl.-Kffr. Dr Anne-Kathrin Roth**  
(since 2004)

**Dipl.-Bw. Claus-Hinrich Roth**  
(since 2004)



With its slogan of “One brand – many strengths”, our family-owned company is fit to face the future.

Comprising several sectors, Roth Industries is one of the most innovative companies in the Building Solutions and Industrial Solutions divisions. Our new and consistent brand image gives us a global identity, while diversification allows us to exploit synergies and develop a leading role in innovation.

In establishing core competences in energy, water and plastics, the company has forged a path towards global market leadership with its philosophy of “From the Hinterland out into the whole world”. Our reputation as a global market leader in energy storage systems, floor heating and cooling systems and composite technologies was confirmed when we were entered in the Langenscheidt Lexicon of German World Market Leaders.

This recognition has spurred us on to continue supplying highly efficient, easy-to-assemble and environmentally friendly products in future.

As a value-driven and future-oriented family-owned company, we are a reliable and responsible partner for our customers.

### *The Roth family*



Head Office of Roth Industries, Dautphetal-Buchenau

## Company vision

*“The world of Roth is composing technologies  
for solutions full of energy”*

Our vision demonstrates what we are striving for. It is vibrant and inspiring, guiding and meaningful in our work.

As an international family-owned company, we provide leading branded building and industrial technology products that amaze our customers.

Sustainability and conserving resources are top priorities when it comes to the high demand for functionality and quality in our services. People are at the heart of our business activities.



## Company principles

### ■ familial

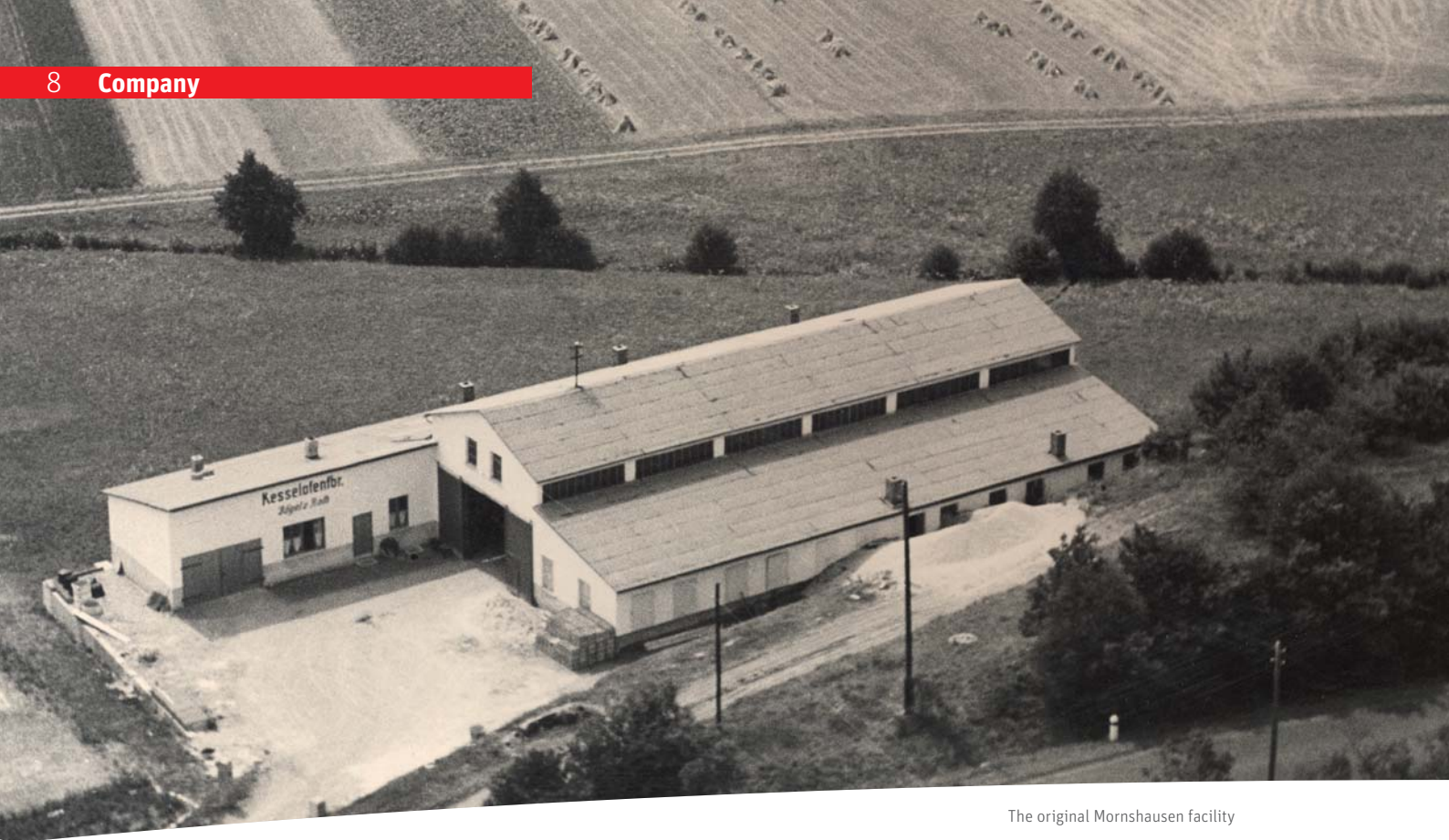
- › Protecting and expanding our medium-sized family-owned company
- › Supporting employees and standing up for their legitimate interests
- › Thinking and acting as a team

### ■ dynamic

- › Aligning our business activities with customer requirements
- › Leading our markets in terms of expertise with quality and innovation
- › Diversifying products, markets and technologies to create synergies

### ■ responsible

- › Manufacturing and designing products using methods that protect the environment and save resources
- › Doing business fairly and playing a responsible role in society
- › Allowing the companies and sectors to act independently and aim for success while considering the interests of the company as a whole
- › Generating reasonable returns to safeguard our company's independence and accomplish our tasks



The original Mornshausen facility

## The journey from small workshop to global market leader

The company was originally founded in 1947 as a small workshop. In subsequent years, it developed into a global market leader in the energy storage systems, floor heating and cooling systems and composite technologies segments.



**Heinrich Roth**  
Company founder  
(from 1947 to 1969)



Original product: Wash stove





## Executive Board

The highest leadership committee of the Roth group of companies is the **Executive Board**.

(from left to right)

Dr Anne-Kathrin Roth – COO Sanitary and Environmental Systems

Manfred Roth – President

Matthias Donges – CEO

Christin Roth-Jäger – COO Energy Systems

Claus-Hinrich Roth – CFO

Alfred Kajewski – COO Industrial Solutions

### Dipl.-Kfm. Matthias Donges

**CEO (Chief Executive Officer)**


“As a medium sized family-owned company, we are ideally placed to compete in various segments at international level. Our balanced approach to diversification, our innovative capabilities and leading technological role in multiple sectors make us confident that we will continue our success story in future. Flexible and dynamic structures allow us to respond to changes in the market in a responsible way. This underpins our thinking and actions as a family-led company.”

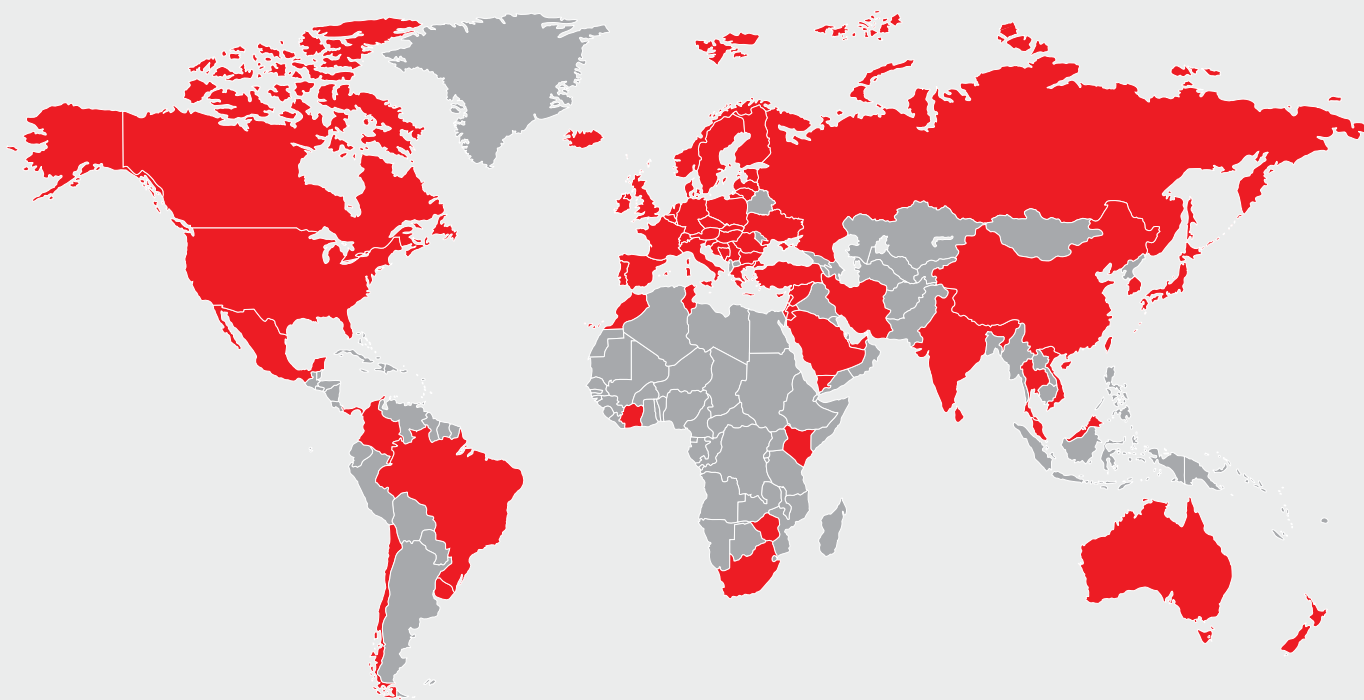




# Roth international

## > Roth company structure

| <b>Roth Industries</b>   |   |  |
|--|---|---|
| <b>Building Solutions</b>  | <b>Industrial Solutions</b>   |   |
| <p><b>Energy Systems</b></p> <ul style="list-style-type: none"> <li>&gt; Heat pumps &amp; Solar</li> <li>&gt; Oil tanks &amp; Heat storage tanks</li> <li>&gt; Floor heating and cooling</li> <li>&gt; Pipe installation</li> </ul> <p><b>Sanitary Systems</b></p> <ul style="list-style-type: none"> <li>&gt; Shower cabins</li> <li>&gt; Shower walls</li> <li>&gt; Shower trays and bath tubs</li> </ul> <p><b>Environmental Systems</b></p> <ul style="list-style-type: none"> <li>&gt; Water and wastewater storage tanks</li> <li>&gt; Environmental storage containers</li> </ul> | <p><b>Composite Technology</b></p> <p>Plants for:</p> <ul style="list-style-type: none"> <li>&gt; Filament Winding &amp; Prepreg</li> <li>&gt; Coating &amp; Pleating</li> <li>&gt; Brushes &amp; Brooms</li> </ul> <p><b>Plastic Technology</b></p> <ul style="list-style-type: none"> <li>&gt; Injection &amp; Blow moulding</li> <li>&gt; Moulded parts &amp; Vessels</li> </ul> <p><b>Hydraulic Technology</b></p> <ul style="list-style-type: none"> <li>&gt; Accumulators</li> <li>&gt; System solutions</li> </ul> |   |

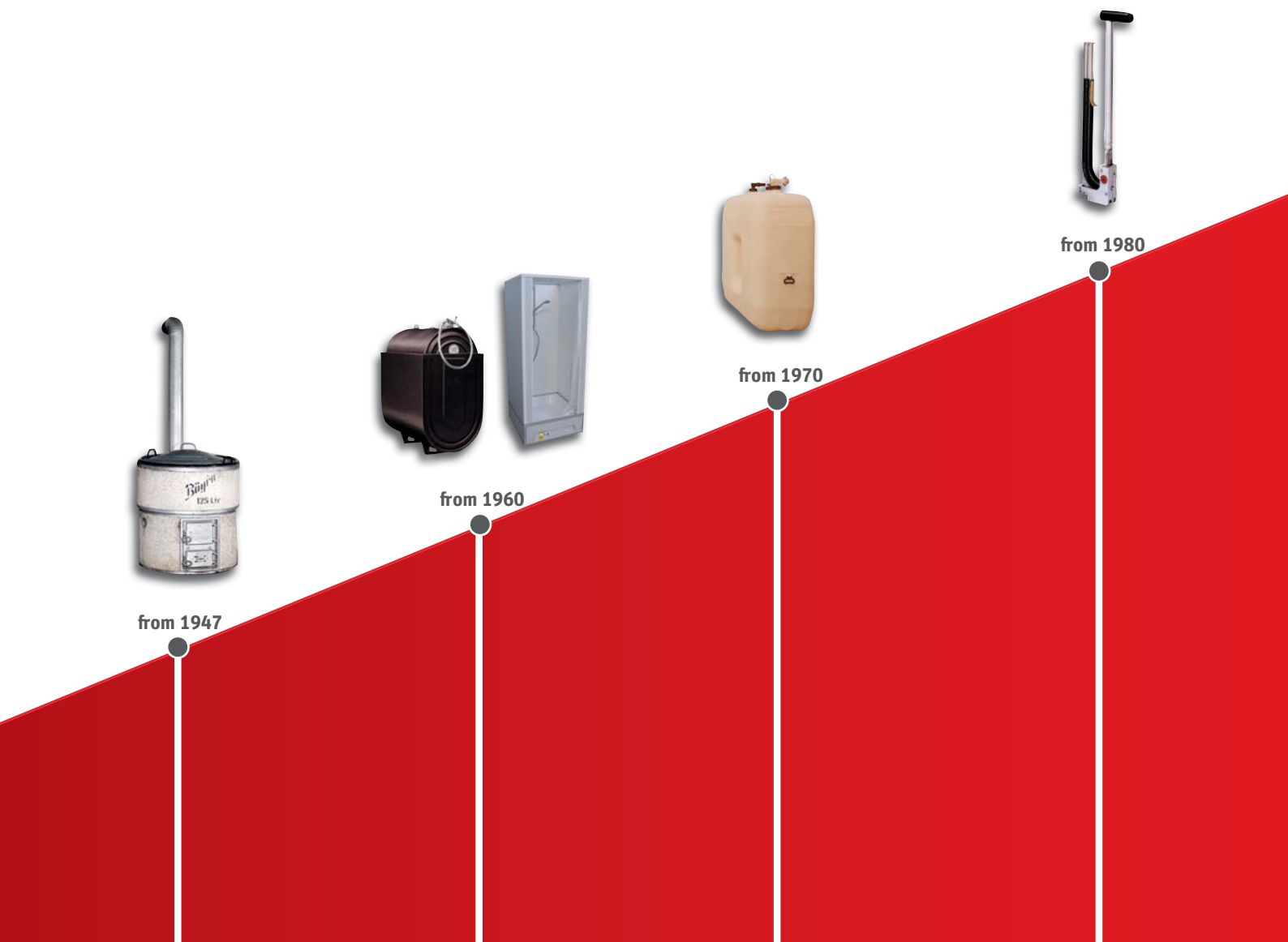


### > Roth countries

| Europe          |                |          |                        |                    |
|-----------------|----------------|----------|------------------------|--------------------|
| Central         | Western        | Northern | Southern               | Eastern            |
| Germany         | France         | Denmark  | Bosnia and Herzegovina | Bulgaria           |
| Belgium         | United Kingdom | Finland  | Greece                 | Estonia            |
| Luxembourg      | Ireland        | Iceland  | Italy                  | Latvia             |
| The Netherlands | Portugal       | Norway   | Croatia                | Lithuania          |
| Austria         | Spain          | Sweden   | Malta                  | Poland             |
| Switzerland     |                |          | Serbia                 | Romania            |
|                 |                |          | Slovenia               | Russian Federation |
|                 |                |          | Turkey                 | Slovakia           |
|                 |                |          | Cyprus                 | Czech Republic     |
|                 |                |          |                        | Ukraine            |
|                 |                |          |                        | Hungary            |

| The Americas | Asia      |                      | Africa       | Australia   |
|--------------|-----------|----------------------|--------------|-------------|
| Brazil       | China     | Republic of Korea    | Ivory Coast  | Australia   |
| Chile        | Hong Kong | Saudi Arabia         | Kenya        | New Zealand |
| Canada       | India     | Singapore            | Morocco      |             |
| Colombia     | Iran      | Sri Lanka            | Zimbabwe     |             |
| Mexico       | Israel    | Syria                | South Africa |             |
| Panama       | Japan     | Taiwan               | Tunisia      |             |
| Uruguay      | Jordan    | Thailand             |              |             |
| USA          | Lebanon   | United Arab Emirates |              |             |
|              | Malaysia  | Vietnam              |              |             |

# Milestones in the company's development



from 1947

from 1960

from 1970

from 1980

**Production of wash stoves**

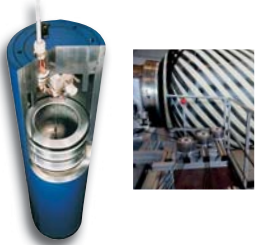
**Sector change to heating and sanitary technology**

**Introduction of plastics technology**

- > Leading technological role in industrial blow moulding
- > Competence field: plastics

**Focus on energy systems**

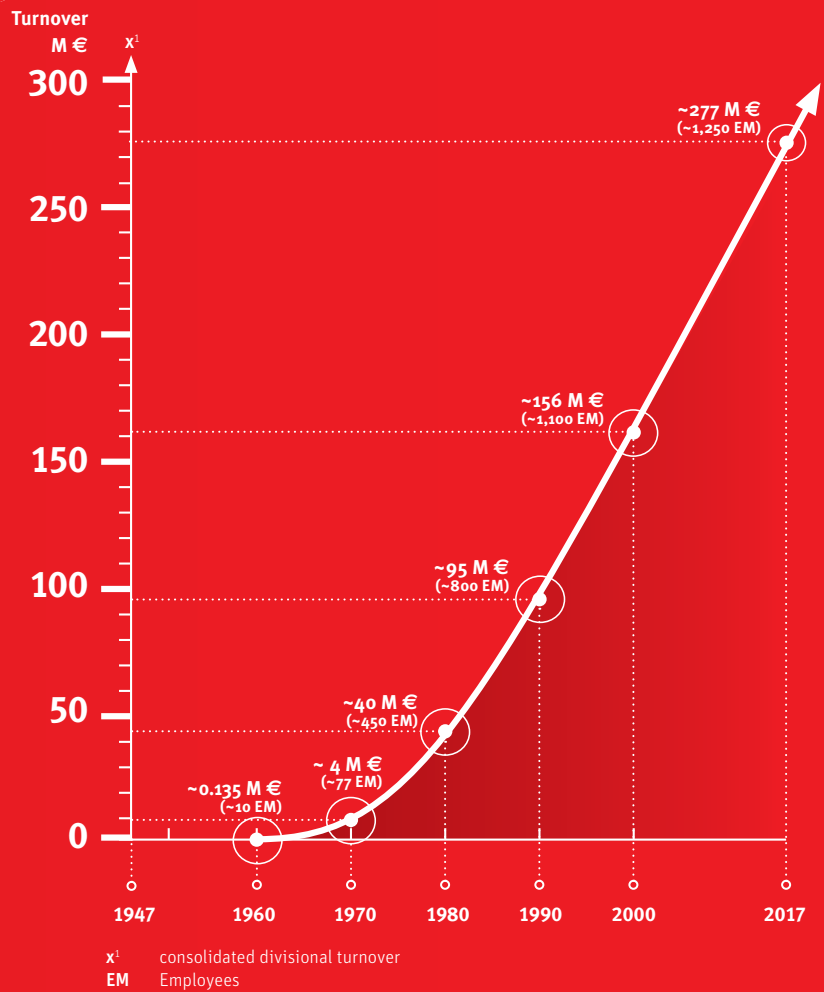
- > Market leader in surface heating
- > Competence fields: energy and water



from 1990



from 2000



## Company development

By driving innovation and laying strategic foundations, we have been able to grow continuously and develop into a healthy group of companies with a leading global role.

### Expansion into hydraulics and composite technologies

- > Market leader in storage systems
- > Market leader in composite technologies

### Worldwide company expansion



# Environmental protection

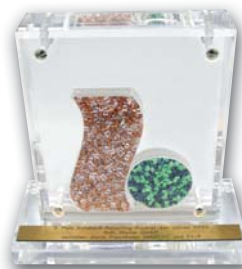
Active protection of the environment is embedded in our company principles. We feel that it is of essential importance to preserve resources when developing, manufacturing and using our products.

Responsibility for the place where we live obliges us to ensure that we protect the environment, over and above the legal requirements. Through this, we are helping to reduce CO<sub>2</sub> emissions significantly.

With our own environmental declaration and the establishment of an environmental management system in compliance with the EMAS (Eco-Management and Audit Scheme), we are committed to continuously improving what we do for the environment.

- › By using renewable energy and waste heat and buying eco-electricity at Roth's German sites, we have halved our CO<sub>2</sub> emissions since 2014.
- › Roth Plastic Technology in Wolfgruben is the first Roth company to achieve environmentally neutral production as of 2017. Although we cannot avoid emissions, we offset them by supporting sustainable climate protection projects.
- › Roth's product concepts are designed to protect the environment from damage by using non-polluting materials, which are generally special plastics. Using carefully selected materials and employing system technology ensures the durability of our product ranges. They have proven their worth over decades of use.

- › With innovative product solutions, we create manufacturing processes that require less energy but are just as efficient, or even more so. By substituting traditional materials with plastic as a base material for our product systems, we are making a significant contribution towards improving the ecological balance sheet.
- › Using recyclable materials to manufacture our product systems is compulsory for our development. The awards we have received are testament to our commitment to protecting resources.
- › The innovative product concepts from building and industrial technology contribute towards saving energy and protecting the environment on a daily basis. For example, we save a significant amount of energy with our accumulators for investment goods, but also with our ecological energy generation process with heat pumps and solar systems and our efficient floor heating and cooling systems for energy use.
- › Using electromobility for regional business travel underlines our commitment to environmental protection.



From left to right: Roth environmental declaration, Fraunhofer Umsicht Institute awards a prize to the Roth ClimaComfort® Compact System for innovative environmental protection in plastics processing, EMAS certification



“Eckelshausener Musiktage” music festival

## Social responsibility

In line with our company’s principles, we feel obliged to play an active and responsible role in society.

- > Supporting social organisations and institutions
- > Promoting culture in the region – the Roth Atrium has become a venue for concerts, cultural exhibitions and charity events
- > Supporting regional community life
- > Organising charity campaigns, for example donating a floor heating system to the Dresden Frauenkirche
- > Supporting professional education and development
- > Encouraging business to work with schools, universities and higher education institutions





"Rothkehlchen" nursery

(in columns from left to right)  
Roth running club at the "Hungerlauf" race organised by the Lions Club  
"Haus der kleinen Forscher" charitable foundation  
Christmas performance by the "Lebenshilfe Hinterland"  
KTV Obere Lahn: Fabian Hambüchen  
Training day hosted at the Roth Atrium  
RSG Buchenau cycling club  
FSV Buchenau football team  
Donating to the Marburg children's clinic  
Philipps University of Marburg  
The Dresden Frauenkirche (image rights: photographer Oliver Killig,  
rights holder: Stiftung Frauenkirche Dresden)  
"Rothkehlchen" nursery



## Competence in energy, water and plastics

With core competences spanning a range of sectors including energy, water and plastic, we have outstanding performance capability, which strengthens our global market position and builds a sound foundation for the future.

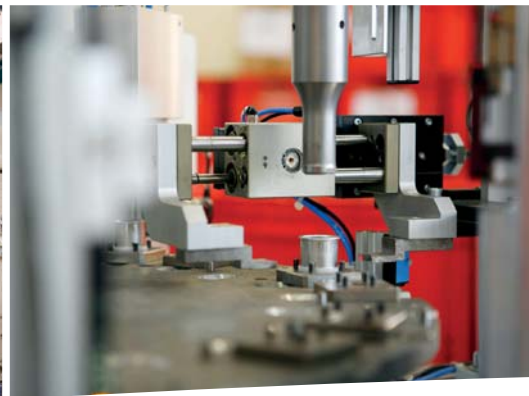
We provide top-quality business and technological services as well as innovative and environmentally sustainable solutions for buildings and industry.



Making decisions on quality as a team

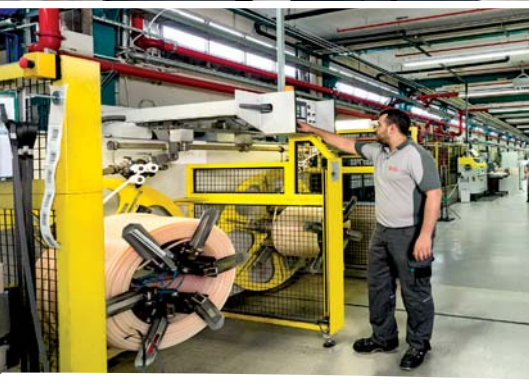


*Competence in*  
● energy ● water ● plastics



## Employees – the key to our success

Our portfolio of leading Roth branded building and industrial technology products is a real hit with our customers. Our expert employees work tirelessly to meet the stringent functional and quality requirements placed on our products.



They perform at the highest level when it comes to processing and handling plastics and metal in machine engineering and finishing processes.

In research, development and construction, a large team of development engineers work on innovation and progress. A comprehensive consulting and planning service and efficient logistics round off our package.



Roth System Solutions

## Energy Systems

In line with our motto of “Living full of energy”, we network our energy and sanitary systems, from renewable energy generation with efficient energy storage and energy use through to a complete system for modern building technology.

### Roth Energy and Sanitary Systems

#### Generation

- > Solar systems
- > Heat pump systems
- > Solar heat pump systems

#### Storage

- Storage systems for
- > Domestic and heating water
  - > Combustibles and biofuels
  - > Rainwater and wastewater

#### Use

- > Floor heating and cooling systems
- > Pipe installation systems
- > Shower systems





Range of energy systems

When it comes to the latest building technology, Roth is the right place to go. We provide well-known branded products for new-build and upgrade projects via our three-tiered sales channel. With our floor heating and cooling systems, pipe installation systems and storage systems, we play a leading role on the market and regularly set new standards in modern building technology. With our own research and development work, we offer products that are geared closely to customer requirements and that experts in sanitation, heating and air conditioning rate highly.

Our extensive field service operations ensure fast on-site support for technical and commercial issues. Roth's hotline and project planning service is able to handle the most complex and demanding challenges. In-house training, product and software seminars and an online service round off the company's extensive service offering. Our high quality standards are underpinned by our partnership with the "Handwerkermarke" quality scheme of the ZVSHK (Central Association of Plumbing, Heating and Air Conditioning).

*Living full of energy*



Glass shower and complete shower

## Sanitary Systems



Prestol shower tray



Stone Amore bath tub





Laguna Maxi Wave walk-in shower with chrome glass

## **Roth complete showers, glass showers, shower trays and bath tubs**

The Roth complete shower tradition stretches back many years. The company has been producing complete showers ever since it was the first manufacturer to do so in 1967. The high standards of quality are a result of these years of experience. We are one of the leading complete shower providers in Europe.

With Roth glass showers, your dream bathroom can become a reality. They combine functionality, top quality and maximum convenience with clear-cut lines, spaciousness and transparency. Whatever your architectural style and design ideas, the diversity of the Roth range of glass showers means there is a solution for every bathroom.

A comprehensive array of suitable shower trays and bath tubs offers scope for creativity in any bathroom.

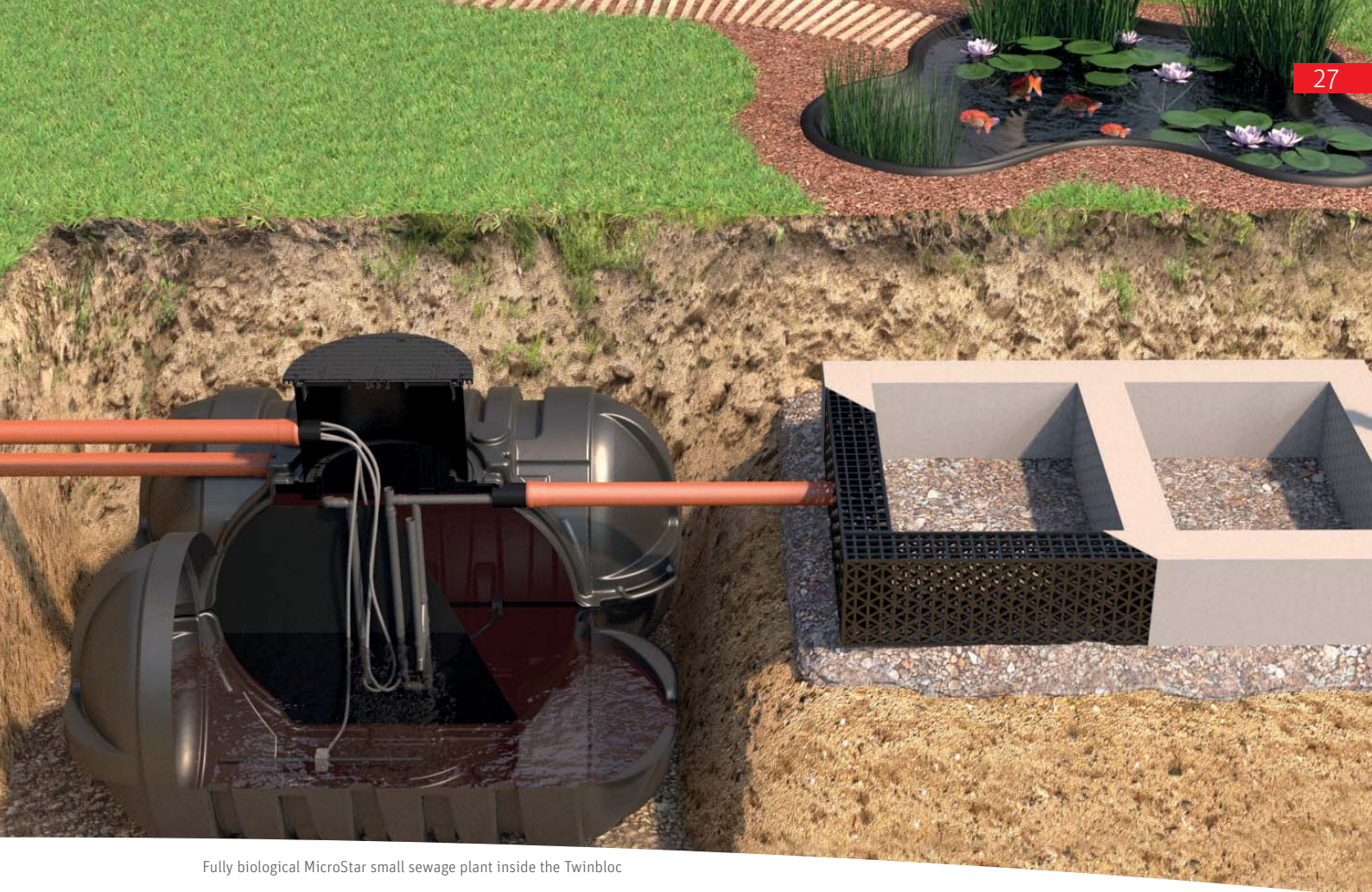


Twinbloc rainwater storage tank

## Environmental Systems



Collecting pits, Unitech/Multitech containers and service boxes



Fully biological MicroStar small sewage plant inside the Twinbloc

## Pioneering systems for water and sewage treatment systems

Roth Umwelttechnik develops innovative system solutions for water and sewage treatment technology. The range of products includes tanks with capacities of up to 6000 litres and complete pre-assembled systems.

As a plastics processing specialist, we provide complete system solutions for recycling rainwater, either in the form of underground storage tanks or for installation in

houses or gardens. Roth also offers small sewage plants, infiltration systems, collecting pits and wastewater tanks. Other products in the environmental systems range include containers approved for transporting hazardous materials and blow-moulded technical components such as road and traffic safety devices.

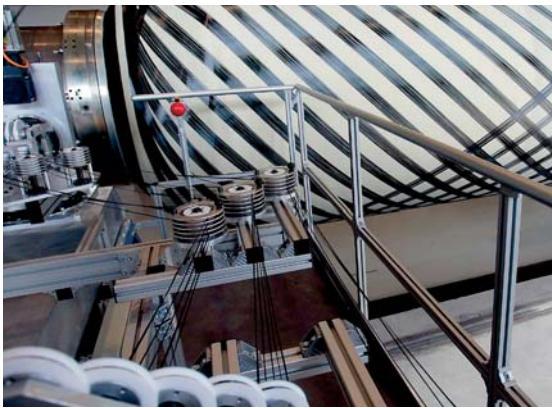


Domestic and industrial rainwater storage tanks



Filament winding system for wind power

## Composite Technology



Close-up of winding

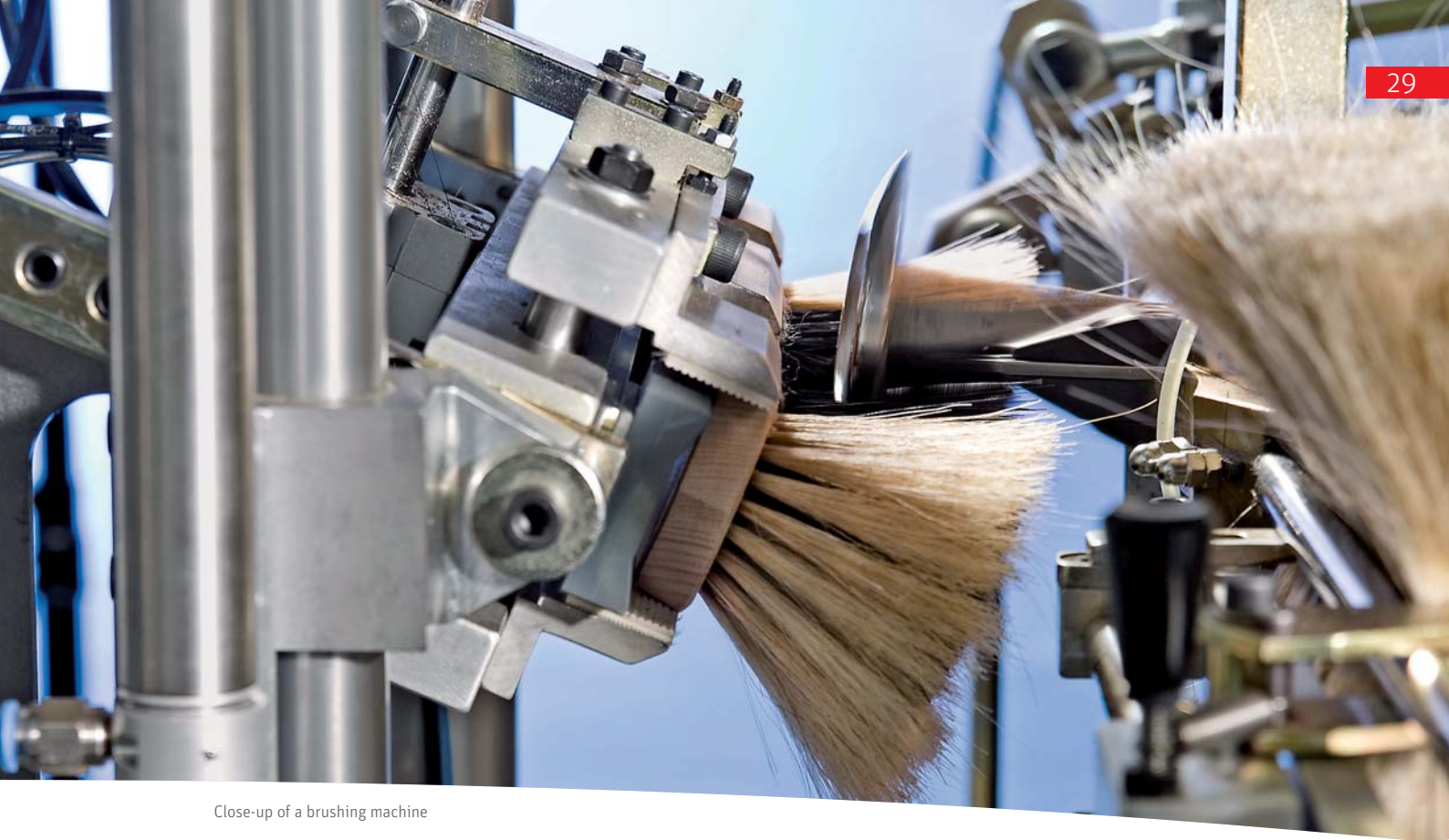
### Customised solutions in machine engineering

Our expertise in special machine engineering is bundled under the Composite Technology sector, where we plan, design and manufacture aggregates, machines and entire production lines in the business units

- > Filament Winding & Prepreg
- > Coating & Pleating
- > Brushes & Brooms



Flotation dryer for impregnation and coating systems



Close-up of a brushing machine

**Filament winding** is a process to manufacture products made from plastics that are particularly robust thanks to fibre reinforcement. These are used in the automotive and sports industries and in wind energy, aviation and aerospace systems. Synthetic resin or thermoplastic materials are processed on filament winding systems using reinforcing fibres, usually made from glass or carbon.

**Prepreg** systems are used to manufacture semi-finished fibre composite goods that can be further processed and made into finished products in subsequent stages using the prepregged, partially set thermoplastic matrix.

**Pleating machines** are used in the production of air,

water or oil filters in the automotive industry, as well as in aviation, hydraulics, ventilation and medical technology.

**Coating and impregnation systems** are suitable for finishing goods produced in webs, including paper, films, laminates and fabrics.

Roth has a long tradition of making machines for manufacturing **brushes and brooms** for households and industry. As a specialist in brushing machines, we offer an innovative range of carousel, universal and shearing machines.



Different types of brush  
Different types of filter



Knife pleating machine



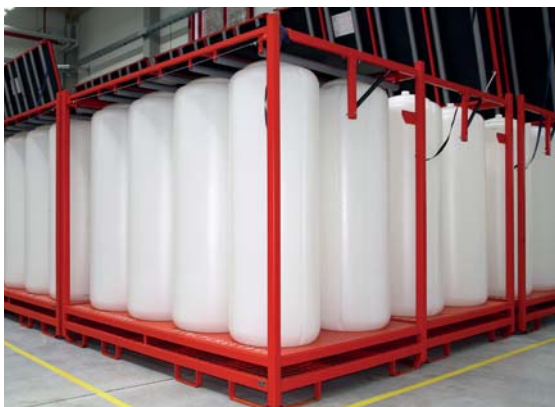
Finishing on an assembly machine

## Plastic Technology



### Competence in plastics

In the Plastic Technology sector, Roth supplies products for households and industry. Consistent customer focus, product knowledge and market expertise are the keys to our success.



Household products  
Liners for pressure vessels



Injection-moulding clips production



Injection moulding

The focus is on developing, manufacturing and marketing customer-specific plastics systems and implementing customer ideas in specific product solutions.

We have considerable injection-moulding expertise. The technical components made from injection-moulded plastic are used in building technology, the automotive industry and household products.

In addition to injection moulding, the Group has expertise in plastic processing procedures such as blow, rotation and vacuum moulding, extrusion, winding and foam technology.



Blow moulding



Winding technology



Rollercoaster

## Hydraulic Technology



Piston accumulator systems

### Outstanding solutions for fluid technology

The Hydraulic Technology division offers energy-efficient hydraulic accumulator solutions for technologies that involve storing and recuperating hydraulic energy. Technical fluid components are used in energy and power-plant technology, mobile hydraulics, tooling machines or oil and gas technology, for example.

As a full service provider, we supply a comprehensive range of technologies spanning piston, bladder and diaphragm accumulators as well as accumulator systems for all manner of different applications. We have achieved global market leader status in this sector thanks to decades of experience in developing and producing piston accumulator systems.





Range of hydraulic accumulators  
(diaphragm, bladder and piston accumulators)

Roth storage systems have a modular design. Based on the requirements, we produce solutions that are cost-effective and adapted in line with customers' specific needs. Power can be supplied quickly from the Roth hydraulic accumulator. The durable and easy-to-maintain accumulators guarantee maximum safety with minimal maintenance work required.



Tooling machine



Accumulator accessories

# Contact addresses

## ■ Building Solutions Germany

### Roth Werke GmbH (head office)

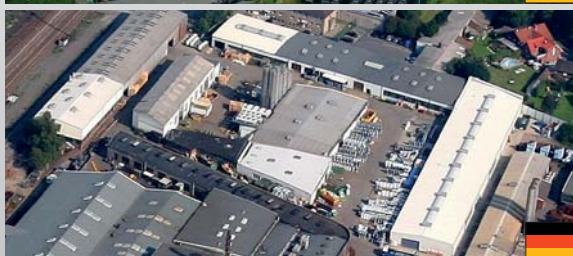
Am Seerain 2  
35232 Dautphetal, Germany  
Telephone +49 (0) 6466-922-0  
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[www.roth-werke.de](http://www.roth-werke.de)

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Fax +33 (0) 1/60 07 96 47  
[www.roth-france.fr](http://www.roth-france.fr)



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Fax +1 315/7 55 10 13  
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Contact information for our international locations will be provided by the respective headquarters.

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 Fax +49 (0) 6451-71918-30  
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 Fax +86 512 53208839  
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 Fax +1 315/4 75 02 00  
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