





#### Water – a precious resource

in life, yet it's exposed to a large number of pollutants. GRAF develops, manufactures and markets an extensive range of products for water management. We provide solutions to global challenges, such as protecting watersourses, purifying wastewater and preventing flooding, loping this area of our business ever since. with typical German quality. Our focus is on avoiding environmental pollution and having a re- Thanks to the trust that our customers have sponsible attitude towards people and nature. in business.

spent our early years almost exclusively selling containers, barrels and tanks for winegrowers tance offers, and also started to focus on tanks for industrial applications. Within a matter of a few years, we had achieved a leading position in this industry.

Pure, clean water is one of the essential things We picked up on the considerable potential offered by rainwater harvesting early on. In 1974, the slogan "Rainwater is free" was used to market the very first rainwater barrels, which were soon followed by other innovations for rainwater harvesting. We have been consistently deve-

placed in us and the commitment of our emplo-We can draw on our experience of over 50 years yees, our company has grown continuously and now employs a workforce of over 500 people worldwide, more than 300 of whom are based Otto Graf GmbH was established in 1962. We in Germany. Our products are exported to more than 70 countries across the globe. Numerous innovations bear impressive testimony to the and wineries. We systematically utilised the high demands we place on ourselves as an inadvantage that plastic's acid and alkali resis- novative market leader for water management.

Otto F. Graf Otto P. Graf



### \_ TENINGEN SITE (NEAR FREIBURG/GERMANY)

- Size 155,000 square metres
- Approx. 280 employees
  Manufacturing using injection moulding and blow moulding

### \_ DACHSTEIN SITE (ALSACE/FRANCE)

- Size 100,000 square metres
- Approx. 95 employees
  Manufacturing using injection moulding and rotational moulding



# **\_ HERBOLZHEIM CENTRE OF EXCELLENCE** FOR GREEN RAW MATERIALS (NEAR FREIBURG/GERMANY) • Size 65,000 square metres • Approx. 40 employees • Raw materials processing, materials research and injection moulding • Completion in the Autumn of 2018 GRAF

### **GREEN RAW MATERIALS**

## \_ ECO-FRIENDLY PRODUCTS MADE FROM RECYCLED RAW MATERIALS

Over 50% of the raw materials used by GRAF are made from post-consumer recycling sources. In-house recycling of raw materials allows us to ensure consistently high raw material quality and to make all the products in our value-added chain highly sustainable.

By building the centre of excellence for raw materials in Herbolzheim, we are continuing the consistent implementation of our sustainable production strategy for environmental products. There, GRAF has been turning post-consumer plastic resources into high quality re-granulate since the Autumn of 2018. For the first time, the plant incorporates new technologies to link multiple process steps into an overall integrated process stream. This pioneering technology makes the plant the only one of its kind in the world. The objective is to manufacture a plastic granulate that attains the quality level of virgin products. This will eliminate more than 100,000 tonnes of CO2 emissions every year in the future.

The centre of excellence for green raw materials is the visible symbol of the leading position within this field. It is the largest single investment in our company's more than fifty-year history.









#### \_ EXPORTS TO OVER 70 COUNTRIES

GRAF products are exported to more than 50% of our revenue outside of Germany – erations. We already generate more than in the past five years.

70 countries around the world. GRAF is with this figure set to rise in the future. The present in strategically important coun- share of our company's exports in relation tries with own manufacturing or sales op- to our total products has almost doubled

### **99** GRAF GENERATES OVER 50 % OF ITS REVENUE OUTSIDE OF GERMANY. 66









**GRAF** Australia

**GRAF UK** 

**GRAF** Poland

**KLARO Germany** 

### 1962

Otto F. Graf founded Otto Graf GmbH. To begin with, he sells plastic containers and drums for fruit and wine growing, as well as industrial containers.

## 1974

The market launch of the first GRAF water butts lays the foundations for what is now the company's most important product segment: rainwater harvesting.

### 1978

With the market launch of underground rainwater tanks, GRAF opens up a completely new product segment.

### 1990

1996

Rotational moulding production facilities in France are expanded significantly with the commissioning of what was, at that time, the largest rotational moulding machine in Europe.

### 1997

In Dachstein, the company invests in its own injection moulding production facilities with three large-scale machines.

The Herkules tank revolutionises tank logistics. Its two halves fit together using a patented system.

### 1999

The first generation of GRAF percolation blocks lay the foundation for the rainwater infiltration and retention range.

### 2001

GRAF expands its range to include completely biological wastewater treatment systems, thus founding what is now a very successful wastewater processing range.

### 2002

GRAF opens up the segment of decorative rainwater collectors – which is now an important range at GRAF.

# 2006

The world's highest injection moulding machine and mould starts its operation. GRAF expands the Teningen site to create the company's most state-of-the-art production

### 2008

Tremendous growth calls for the further expansion of the Teningen plant. GRAF invests in its own blow-moulding production facilities.

### 2009

ustainability starts with the se of raw green materials. his is why GRAF opts to inest in its own raw material ecycling process.

### 2010

1st place: Otto Graf GmbH is winner of Baden-Württemberg regional innovation prize.

### 2011

At the Dachstein plant, we invest in two of the latest generational rotational moulding machines. These completely automated machines set new benchmarks for quality and energy efficiency.

### 2012

GRAF Australia takes over an Australian market participant, turning it into the production site for the Pacific region.

# 2013

1st place once more: GRAF receives the first prize from the German Federal Ministry of Economics and Technology for the project "Developing welding technologies for large-volume plastic containers".

### 2014

After more than ten years of intensive cooperation, Otto Graf GmbH takes over Klaro GmbH, its technology partner of many years' standing in the decentralised wastewater processing sector.

GRAF UK Ltd, a new member to the GRAF Group, is formed after the takeover of an English partner.

### 2017

The takeover of a Polish company gives birth to GRAF Polska, a further sales and production location for the eastern European market.

### 2018

The centre of excellence for green raw materials in Herbolzheim is the visible symbol of the leading position GRAF's expertise has adopted in the field of raw materials.

# ILESTONES IN OUR SUCCESS STORY



#### **GREEN PRODUCTS – GREEN PRODUCTION**

Only one percent of the available water on earth can be used directly for drinking. This water should be used responsibly. GRAF develops, manufactures and markets an extensive range of products for water management. GRAF provides solutions to global challenges, such as protecting watercourses and preventing flooding, with typical German quality.

#### Rainwater harvesting

The city of Munich consumes 208 million litres of drinking water per day\*. With rainwater harvesting products, GRAF customers save this incredible amount every single day, making an important contribution to the sustainable use of this precious resource. For private households, the potential savings are around 50 % of drinking water usage, which increases to 85 % for commercial properties. GRAF therefore enables hundreds of thousands of people and businesses to harvest rainwater with an independent solution that best suits their individual requirements.

#### Rainwater infiltration and retention

GRAF stormwater management helps to counter the problem of the increasing amount of land covered by buildings, car parks and roads, which prevents rainwater from naturally infiltrating the ground, putting pressure on sewer systems and increasing the risk of flooding. GRAF solutions take the pressure off sewer networks and reduce surface water drainage charges.

#### Local wastewater treatment

For local wastewater treatment, GRAF offers a wide range of small wastewater treatment systems for over 1 million households in Germany which cannot be connected to the public sewer network in a cost-effective manner. GRAF wastewater treatment systems are used to biologically purify the water, which can then be safely discharged into the environment.

#### Grease and oil separators

One of the biggest hazards to drinking water is contamination with grease or oil. GRAF separators filter out hazardous substances from water, offering maximum safety and protecting the environment.

#### Resource-conserving production

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Our production processes relies on the latest systems for minimal use of resources. Our injection moulding machines require significantly less energy than conventional machines. Using heat recovery, the heat generated during production is used to heat our production and logistics buildings.

<sup>\*</sup>Average water consumption of 130 litres per person based on 1.5 million inhabitants in relation to the potential savings in drinking water consumption by using rainwater. The water savings per tank are multiplied by historical sales figures. For the mains water savings calculated, a flat-rate rainwater requirement of 15 times the container volume is assumed.

#### FOUR LEADING BRANDS FOR OPTIMUM MARKET DEVELOPMENT

The GRAF brand world is based on four brands This enables GRAF to pursue an extremely diftheir positioning and their sales channels. development strategy.

which differ in terms of the size of their range, ferentiated and, as a result, optimum market



#### Premium range

The premium brand with a comprehensive and professional product range. Distributed exclusively via specialist building materials suppliers.

www.graf-online.de







#### DIY brand quality

Product range for specialist trade and hardware stores - clearly arranged and straightfor-

www.garantia.de

#### Promotional range

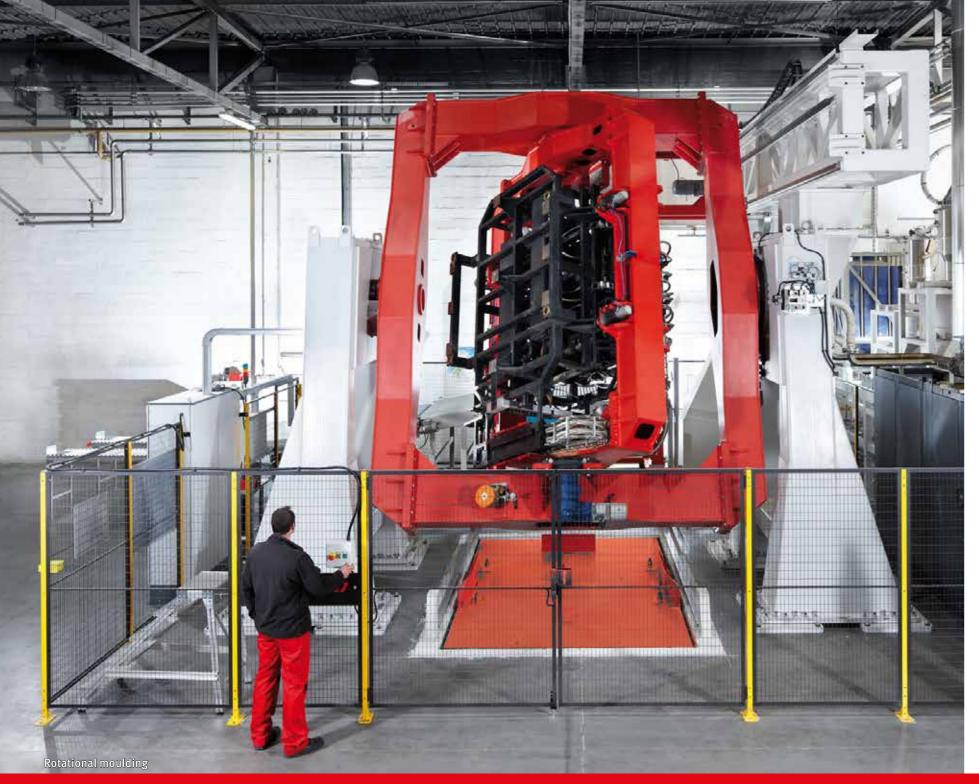
The do-it-yourself brand with the good-value basic range.

www.4rain.de

#### Centre of excellence for wastewater

Small- and mid-scale wastewater treatment systems up to 2000 inhabitants and separation technology for specialist companies and as an OEM solution.

www.klaro.eu





### **OUR COMPETENCES**

#### \_ PRODUCTION EXPERTISE

The manufacturing process is essential for a **Continuous quality assurance** top-quality product. GRAF products have to The image of our products is characterised feature state-of-the-art equipment. This is the our quality assurance system. only way to guarantee highest quality at attractive prices.

fulfil a wide range of requirements. As a result, by the very highest levels of manufacturing we have the know-how in all major produc- quality. The development of each tank is comtion technologies. The optimal manufacturing prehensively documented. All production paprocedure for each product can therefore be rameters, such as weight, date of manufacaccessed in-house. Our production facilities ture and material batch, are stored as part of







#### \_ INJECTION MOULDING EXCELLENCE

GRAF broke into new ground by using injec-sioned the development and construction of tank. To manufacture this tank, GRAF commischine and mould.

tion compression moulding to make the Carat the world's largest injection moulding ma-







GRAF took the top spot at the 2010 Baden-Württemberg Innovation Prize competition with the Carat S underground tank.





#### \_ LOGISTICS EXCELLENCE

The GRAF dealer network has grown contics with quick reaction and short delivery service awareness in our dealings with seasonal peaks. our retail partners. Sophisticated logis-

tinuously over the past few years. We owe times play a crucial role in ensuring our the remarkable loyalty shown by our cushigh standards. With consistently high tomers not only to the unique quality of delivery performance of 99%, we ensure our products, but also to our pronounced short-term availability at all times, even in





















### \_ DESIGN EXCELLENCE

In 1974, the classic water butt laid the foundations for one of GRAF's most successful product ranges. Today, our customers can choose from a range of over 70 container shapes, sizes and colours, from bright or muted colours to modern or rustic styles.

















#### \_ ENGINEERING EXCELLENCE

Over 200 patents and property rights and nu- All GRAF products have been developed by our basis for our commercial success. These innosign and function to construction and statics. vations are growth drivers and form the basis for our commercial success.

merous awards bear witness to our achieve- own R&D department. This department comments as a driver of innovation and form the bines all necessary types of expertise, from de-











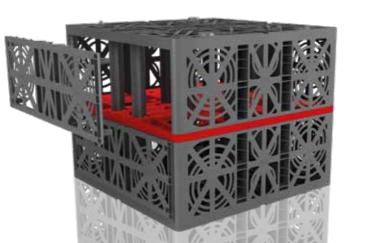


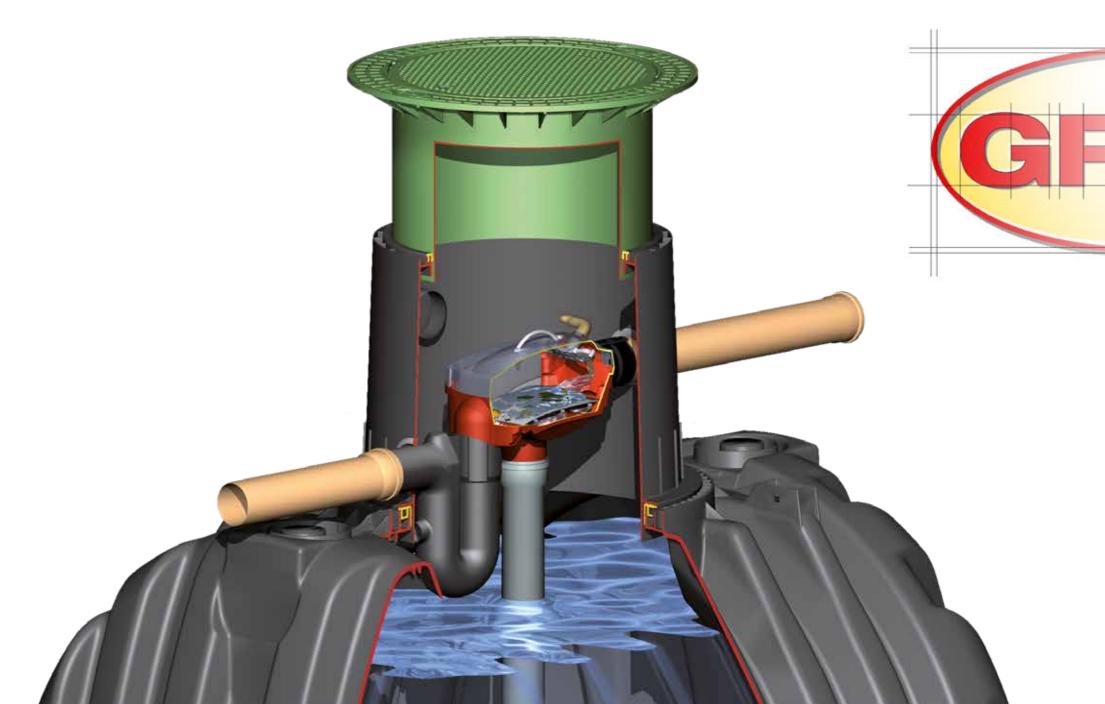














e GRAF project team

#### **\_ EXCELLENCE IN CUSTOMER SERVICE**

Providing retail partners and end customers GRAF project team suppliers guarantee top-quality service. And if any problems may arise our excellent service department is on hand to resolve the issue quickly and easily.

with reliable service is of considerable impor- Our project team provides full support for In the battle to win consumers, a brand's protance. Offering professional and friendly suplarger construction projects. This ranges from file and image are often decisive factors. Our port whenever you may need it is essential for comprehensive support in the planning and marketing mix creates demand and helps reus. Our sales team and the traditionally close dimensioning of our systems to on-site contailers to sell our products. relationship with specialist building materials sulting on the construction site.

#### Highly effective marketing





#### www.graf-online.de

- GRAF TV
- Product advisor
- Numerous downloads



The technical catalogues contain detailed information on planning and dimensioning and also provide practical application examples.



#### \_ PEOPLE MAKE THE DIFFERENCE

The high motivation and exceptional commit- Training at GRAF ment of our staff provide the foundations for our commercial success. Their exemplary dedgoals has made a key contribution to our success story. Today, GRAF has over 500 employsis. ees. Sales and employee numbers have more than doubled over the last 10 years.

#### Employer attractiveness

GRAF has proven to be a reliable, stable employer. Its continued growth ensures security and predictability, while continuous investments in our plants foster additional confidence. Short decision-making and flat hierarchies enable employees to work independently and with responsibility. Furthermore, attractive overall conditions and an extremely positive working atmosphere contribute to GRAF's appeal as an employer.

We actively live up to our social responsibility towards young people. Over 50 young people ication to achieving our company's ambitious have already completed their training at GRAF and were then employed on a permanent ba-

www.facebook.com/GRAF.Ausbildung

