



**RICHARD GEISS GMBH**  
CORPORATE BROCHURE



**RICHARD GEISS GMBH**  
HISTORY. FROM 1959 TO THE PRESENT DAY.



ENVIRONMENTAL PROTECTION, TRADITION AND  
STEADY GROWTH OVER THREE GENERATIONS.

**MAJOR MILESTONES**  
FROM THE FIRST STEP TO THE PRESENT DAY

- 1959 • ESTABLISHMENT OF THE COMPANY IN ANZING NEAR MUNICH
- 1967 • RELOCATION OF THE COMPANY HEADQUARTERS TO OFFINGEN  
PROCESSING OF ALMOST EXCLUSIVELY HALOGENATED SOLVENTS
- 1990 • INCREASE IN PURITY FOR PERCHLOROETHYLENE TO AT LEAST 99.9%
- 1991 • DEVELOPMENT AND EXPANSION OF PRODUCTS FOR SURFACE CLEANING
- 1996 • EXPANSION OF PROCESSING CAPACITY FOR NON-HALOGENATED ORGANIC SOLVENTS
- 2011 • COMMISSIONING OF THE PILOT PLANT AND LABORATORY EXPANSION
- 2013 • COMMISSIONING OF THE TANK CONTAINER STORAGE FACILITY AND SUBSTITUTE BURNER
- 2016 • EXPANSION OF THE CONTRACT DEGREASING BUSINESS UNIT
- 2017 • EXPANSION OF PROCESSING CAPACITY FOR NON-HALOGENATED ORGANIC SOLVENTS
- 2018
- 2021 • MODERNISATION AND CAPACITY EXPANSION OF THE ROTARY KILN
- 2022



WHOEVER STOPS GETTING BETTER  
HAS STOPPED BEING GOOD.  
Philip Rosenthal



**RICHARD GEISS**  
Founder of the company

**RICHARD GEISS, HORST GEISS, WILLI GEISS**  
First and second generation of the founding family

**HORST GEISS & BASTIAN GEISS**  
Second and third generation of the founding family

**BASTIAN GEISS**  
Third generation of the founding family

In 1958, having finished painting the garden fence, Richard Geiss started cleaning the paintbrushes. But as an environmentally-conscious and responsible father, he did not want to just pour the solvent he used for cleaning down the drain.

In this little everyday moment, a great vision was born: sustainable and resource-efficient processing of dangerous solvents. He recognised the true potential of his idea a few days later, when he noticed at his job as an industrial car mechanic what large quantities of solvents were being wasted by ineffective use. Being a man of action, Richard Geiss threw himself straight into developing a method to solve all these problems. The company Geiss has now been processing solvents since 1959.

Having seen continual success, Richard Geiss GmbH grew to become one of the largest solvent recyclers in Europe and, thanks to highest quality standards, is now a sought-after producer and supplier of high-quality solvents. With a total capacity of 50,000 tonnes per year, Geiss distillation systems set the standards for the entire industry.

Richard Geiss GmbH is a family business based on tradition and responsibility that is now run by the third generation of the Geiss founding family.

Organic solvents, whether halogenated or non-halogenated, are used in many different industries. The resulting waste materials need to be safely transported, disposed of or processed. Richard Geiss GmbH specialises in the professional processing of high-purity distillates and their return into a functional material cycle.



COMPANY

- FOUNDED IN 1959 BY RICHARD GEISS
- NUMBER OF EMPLOYEES: ~ 110

SERVICES

- SOLVENT RECOVERY
- SALE OF HIGH-PURITY DISTILLATES
- CONTRACT DISTILLATION
- CONTRACT PROCESSING OF SOLVENTS
- CONTRACT DEGREASING
- SUPPORT AND APPLICATION ADVICE
- SAFETY SYSTEMS FOR SOLVENTS
- LABORATORY SERVICES
- LOGISTICS

TOTAL CAPACITY OF  
DISTILLATION SYSTEMS

- 50,000 TONNES / YEAR

SYSTEM TECHNOLOGY

- RECTIFICATION COLUMNS
- THIN-FILM EVAPORATORS
- AGITATOR STILLS
- ROTARY KILN

STORAGE CAPACITY

- TANK STORAGE FACILITY FOR NON-HALOGENATED SOLVENTS: 1,100 m<sup>3</sup>
- TANK STORAGE FACILITY FOR HALOGENATED SOLVENTS: 1,400 m<sup>3</sup>
- TANK CONTAINER STORAGE FACILITY FOR 36 TANK CONTAINERS: 1,080 m<sup>3</sup>
- CONTAINER STORAGE FACILITY: 1,200 m<sup>3</sup>

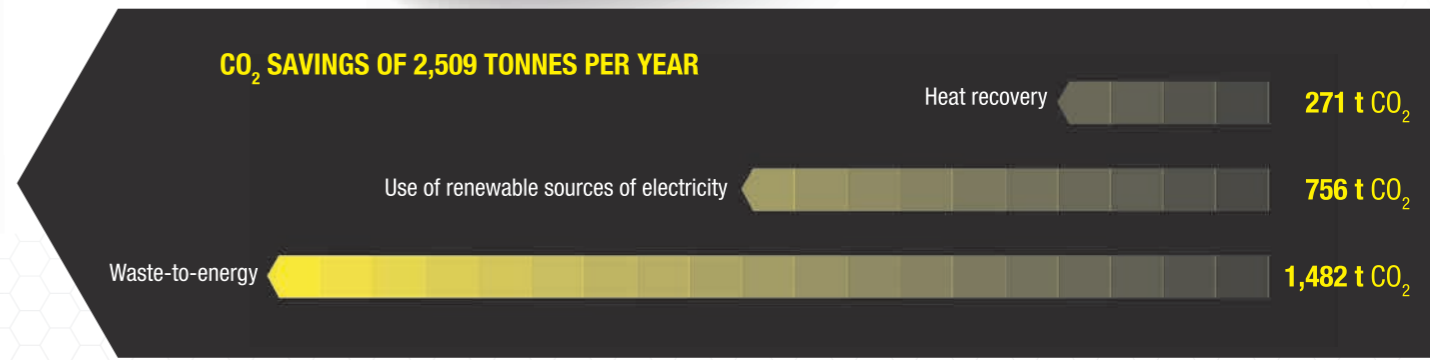
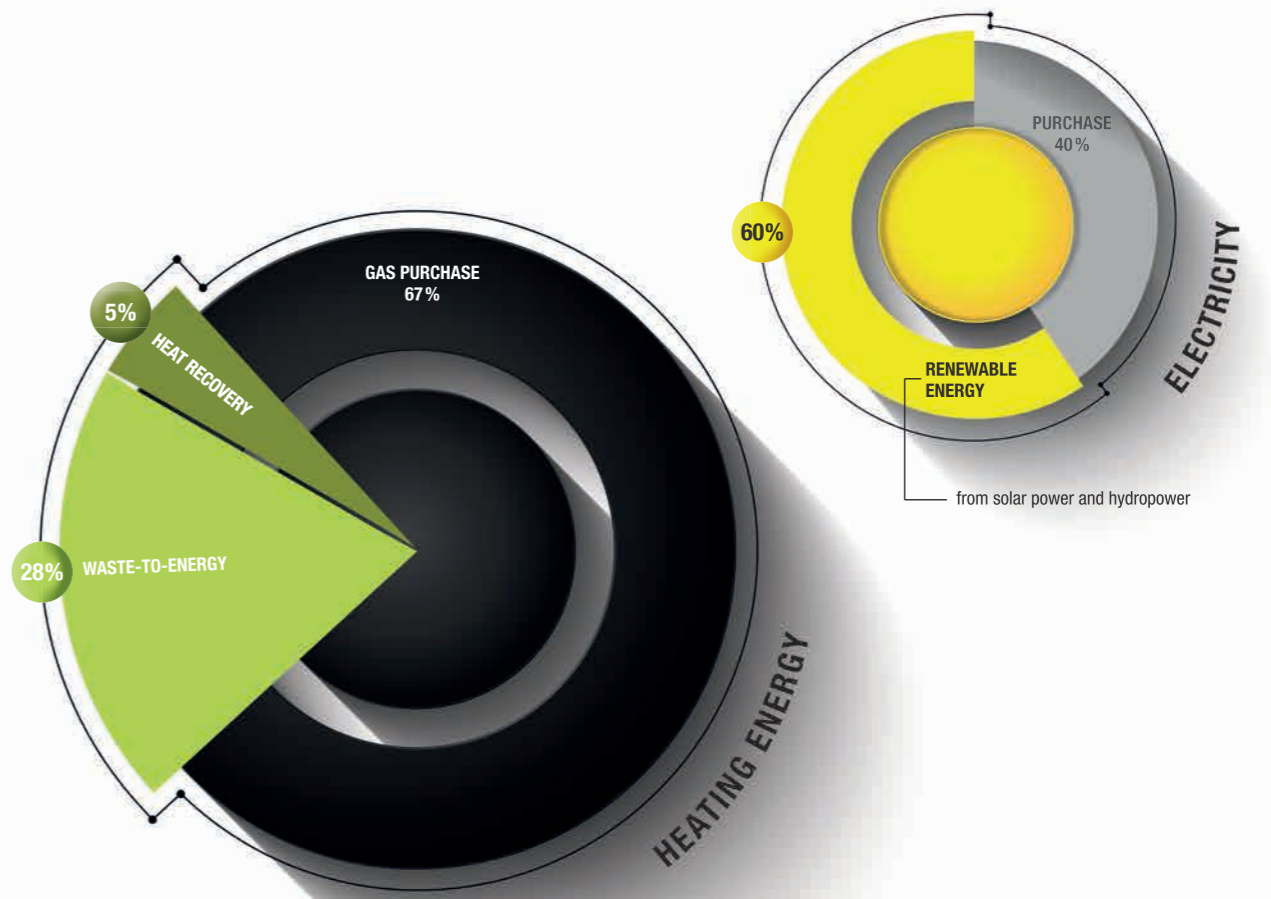
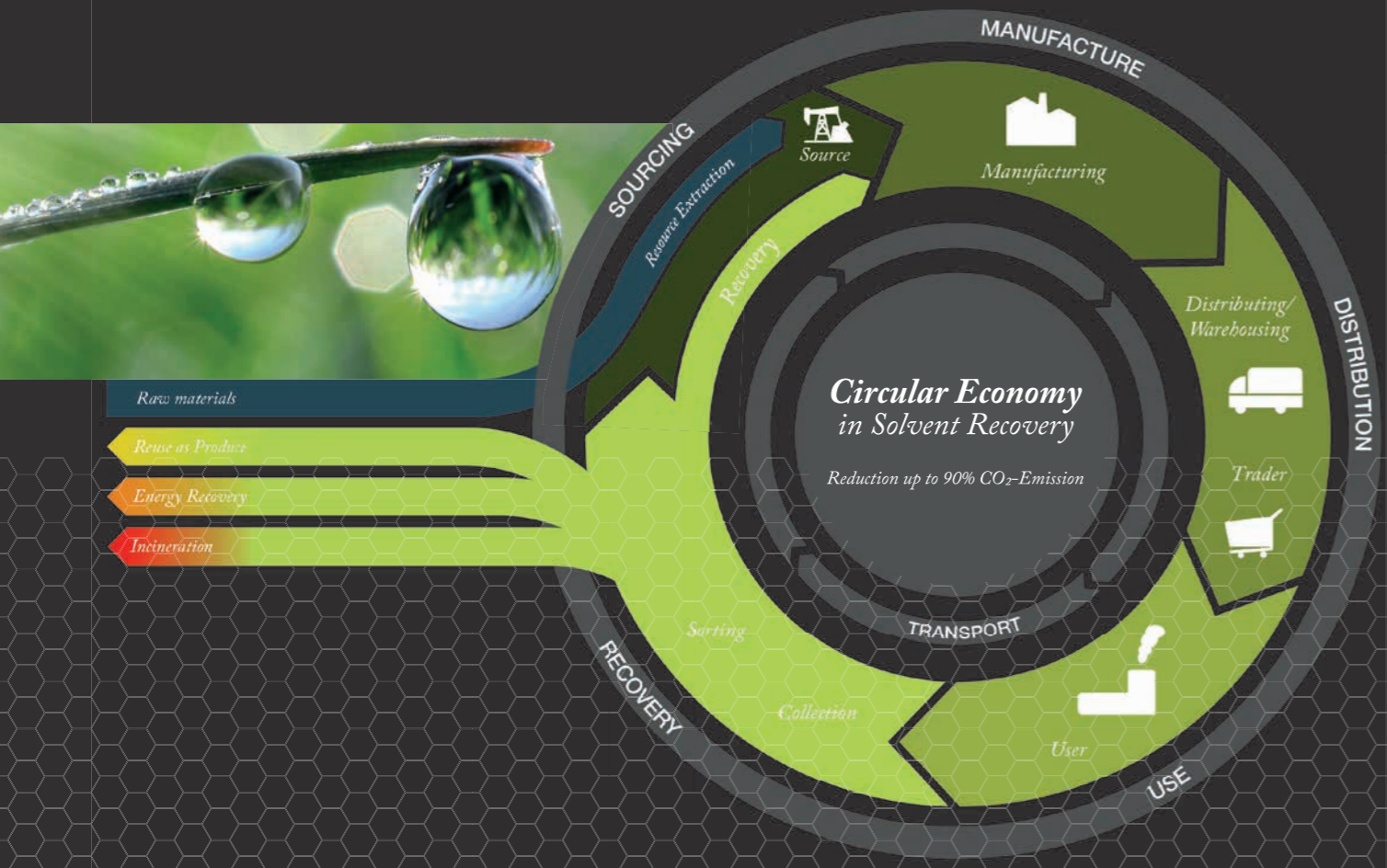
# CIRCULAR ECONOMY

CO<sub>2</sub> SAVINGS OF UP TO 90%

Solvents are finite resources that are often disposed of as hazardous waste after use.

Richard Geiss GmbH has made it the company's mission to recover these resources in the highest quality by using professional processing techniques. The solvents are circulated in a continuous cycle.

By saving finite resources, the use of Geiss distillates makes an important contribution to protecting the environment, avoiding hazardous waste materials and reducing CO<sub>2</sub> emissions.

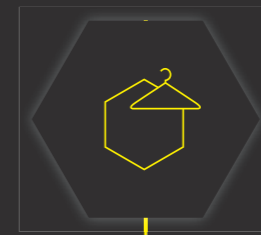


# SUSTAINABLE ENERGY MANAGEMENT

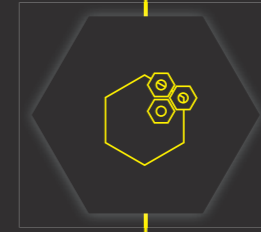
JOINT EFFORTS FOR SUSTAINABILITY

**BUSINESS UNITS**  
RANGE OF SERVICES AND AREAS OF APPLICATION

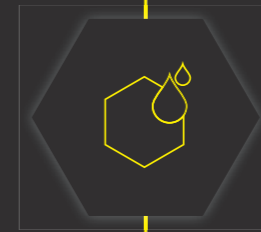
Richard Geiss GmbH collaborates with customers and business partners from a wide range of industries. Individual methods and services have been developed for each industry. The company's areas of activity can be divided into four main business units.



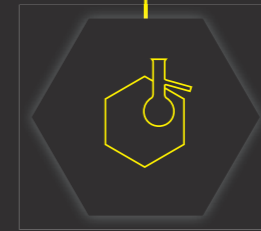
TEXTILE CLEANING



SURFACE CLEANING



CONTRACT CLEANING



CHEMICAL AND  
PHARMACEUTICAL INDUSTRY

Textile cleaning and the associated use of solvents have been part of Richard Geiss GmbH since its establishment. The industry has always been open to the idea of recycling the solvents used.

Every year, thousands of tonnes of halogenated and non-halogenated solvents are taken back, processed and made available for reuse in textile cleaning in the highest quality.



#### PERCHLOROETHYLENE

- GEISS PER TEX

#### HYDROCARBON SOLVENTS

- GEISS ISOFIN TEX
- ISOFIN RG 63

#### MODIFIED ALCOHOL

- GEISS ALKO TEX

#### SERVICES

- ADVICE ON SOLVENTS, CONTAINERS AND APPLICATION
- DISPOSAL AND PROCESSING OF SOLVENTS
- SAFE HANDLING OF SOLVENTS BY USING DOUBLE-WALLED SAFETY CONTAINERS
- EMISSION-FREE FILLING AND EMPTYING OF CONTAINERS BY USING COMPLETE CONNECTION SYSTEMS
- LABORATORY SERVICES
- DELIVERY USING THE IN-HOUSE VEHICLE FLEET BY LOCAL PERSONNEL



Industrial surface cleaning using solvents works safely and reliably – even with complex geometric shapes.

For this market, Richard Geiss GmbH offers an extensive range of products tailored to customer requirements.

Apart from solvents, the company offers safety containers and connection systems, laboratory services, products for solvent monitoring and care as well as corrosion protection concentrates.



#### CHLORINATED HYDROCARBONS

- GEISS PER NS
- GEISS PER HS
- GEISS PER CPS

#### HYDROCARBON SOLVENTS

- ISOFIN RG 0
- ISOFIN RG 58
- ISOFIN RG 63

#### MODIFIED ALCOHOLS / MIXTURES OF MODIFIED ALCOHOLS AND HYDROCARBONS

- RG CLEANER 63
- RG CLEANER 63 P
- ISOCLEAN RG 59
- ISOCLEAN RG 61

#### CORROSION PROTECTION CONCENTRATES

- RG PROTECT 160
- RG PROTECT 180

#### SERVICES

- ADVICE ON SOLVENTS, CONTAINERS AND APPLICATION
- DISPOSAL AND PROCESSING OF SOLVENTS
- SAFE HANDLING OF SOLVENTS BY USING DOUBLE-WALLED SAFETY CONTAINERS
- EMISSION-FREE FILLING AND EMPTYING OF CONTAINERS BY USING COMPLETE CONNECTION SYSTEMS
- LABORATORY SERVICES
- ASSISTANCE WITH SOLVENT CARE

As a solvent specialist, Richard Geiss GmbH added contract degreasing to its range of services in 2012. The company's extensive expertise in solvents and their care is applied to the contract cleaning segment and offered as a service.



## SERVICES

- CLEANING OF MANY DIFFERENT PARTS AND ASSEMBLIES
- CLEANING TRIALS
- TESTING AND DOCUMENTATION OF SURFACE TENSION AND COMPONENT CLEANLINESS
- CONSERVATION OF CLEANED PARTS
- PACKING AND PACKAGING ACCORDING TO CUSTOMER REQUIREMENTS
- PROVISION OF WASH BASKETS / OPEN-FRONT STORAGE BOXES AND LATTICE BOXES
- LOGISTICS (IN-HOUSE VEHICLE FLEET AND RELIABLE FORWARDERS)
- PERMANENT SOLVENT MONITORING BY THE IN-HOUSE LABORATORY

At the end of the 1990s, Richard Geiss GmbH started to set up new distillation systems for non-halogenated solvents. Today, this area is the company's largest production area by volume. What used to be offered to customers as a pure disposal service has now evolved into the contract distillation of solvent mixtures and the return of fresh-quality distillates.



#### SOME OF THE PRODUCTS

ACETONE, BUTYL ACETATE, DMF, ETHANOL, ETHYL ACETATE, GLYCOL, IPA, HYDROCARBON SOLUTION, MEK, MTBE, NMP, N-PROPANOL, THF, TOLUENE, HEAT TRANSFER OILS, XYLENE

#### SERVICES

- PRODUCTION OF HIGH-QUALITY DISTILLATES
- SEPARATION OF SOLVENT MIXTURES INTO HIGH-GRADE MONO-FRACTIONS
- RECOVERY OF SOLVENTS WITH SOLID CONTENT
- DRYING OF SOLVENTS DOWN TO THE PPM RANGE
- CUSTOMER-SPECIFIC PROJECTS – RANGING FROM MERE TAKE-BACK TO INDIVIDUAL CONTRACT DISTILLATION AS WELL AS CONTRACT PROCESSING OF SOLVENTS



The laboratory of Richard Geiss GmbH is where the quality inspection of incoming materials, production monitoring and product development take place. The laboratory has a selection of specialised analytical and measurement devices for solvents.

**METHODS OF DETERMINATION**

- VARIOUS GAS CHROMATOGRAPHS WITH DIFFERENT SEPARATION COLUMNS, DETECTORS AND MASS SPECTROMETERS
- KARL FISCHER TITRATION (KFT) TO DETERMINE THE WATER CONTENT
- COLOUR CLASSIFICATION OF SOLVENTS BASED ON THE HAZEN SCALE
- DETERMINATION OF FLASH POINT USING THE PENSKY-MARTENS CLOSED-CUP METHOD
- CALORIMETRIC DETERMINATION OF HEATING VALUE
- DETERMINATION OF REFRACTIVE INDEX
- PHOTOMETRIC RAPID TESTS
- DETERMINATION OF PH VALUE AND DENSITY
- X-RAY FLUORESCENCE ANALYSIS (QUALITATIVE / QUANTITATIVE ELEMENTAL ANALYSIS)
- UV / VIS (PHOTOMETRIC RAPID TESTS)



The pilot plant has all components of the production facilities and can be operated both at atmospheric pressure and under vacuum. This pilot plant creates a bridge between preliminary testing in the laboratory and production.

**TECHNICAL SPECIFICATIONS**

- THIN-FILM EVAPORATOR WITH A PNEUMATIC ROTOR
- PACKED RECTIFICATION COLUMN OF GLASS
- VACUUM PUMP FOR OPERATION UNDER VACUUM
- TWO THERMAL OIL CIRCUITS FOR PREHEATING AND FOR THE DISTILLATION SUMP
- COOLING CIRCUIT WITH BRINE



- **QUALIFIED TRANSPORT USING THE IN-HOUSE VEHICLE FLEET**
- **FULLY EQUIPPED TANK TRAILERS**
  - Pumps, overfill protection devices, vapour recovery systems and multi-chamber systems
  - Tank volume of up to 34,000 litres
- **TANK CONTAINER LOGISTICS**
  - Tank container storage facility for 36 tank containers
  - Special chassis with integrated pumps
- **BOX VEHICLES FOR GENERAL CARGO**
  - Equipped with spill containment berms and tail lifts
- **TRAINED LOGISTICS TEAM**



Environmental protection and the safe handling of solvents are the top priority. The safety systems of Richard Geiss GmbH even exceed the statutory requirements.

- **MULTIPLE EXHAUST AIR TREATMENT SYSTEMS**
- **FLOOR PROTECTION USING COLLECTION TRAYS**
- **24-HOUR VIDEO-MONITORED AREA**
- **IN-HOUSE FIRE PREVENTION CENTRE AND FIRE TRAILER**



**CERTIFICATES AND APPROVALS**

- QM 9001
- UM 14001
- AMS 45001
- EN 50001
- EFB (WASTE MANAGEMENT FACILITY)
- SQAS
- APPROVAL TO PRODUCE BRANDY AND ENERGY PRODUCTS USING THE COMPANY'S OWN TAX WAREHOUSE
- LICENCE FOR DENATURATION



