

Your **Power** for Health


greiner bio-one



OEM
JUST FOR YOU



Power Of Engineering

Custom Solutions In Polymer
Engineering

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How We Think

Greiner Bio-One: Your OEM Partner

“Greiner Bio-One meets the requirements of a great OEM partner through a combination of know-how and creativity plus an intuitive feeling for the market and products. We implement the specifications of our customers with innovative solutions.”

Heinz Schmid (Greiner Bio-One Management Board)

Greiner Bio-One Management Board:
(from the left) Georg Heftberger, Rainer Perneker, Manfred Buchberger and Heinz Schmid



Ideas Become Technology

Successful Partnership: YOUR Ideas – OUR Passion

Greiner Bio-One has been manufacturing **high quality polymer products** for the life science, pharmaceutical and clinical market for over 50 years.

Our history is full of things that we are proud of. We created the first evacuated blood collection system, the world's first DNA microarray for HPV genotyping and launched the first 1536 well microplate. These are only some of our innovative product solutions.

Our **global network of production sites and subsidiaries** means that whatever your demands and ideas we are there to accompany you competently and reliably every step of the way.

As an Original Equipment Manufacturer we are the ideal partner for the **development, planning and production of your product**. Our customers benefit from our market knowledge as well as our vast experience in the field of injection moulding which has been gained over several decades. We offer individual OEM solutions which enable your ideas to become reality. That's what we call:

Greiner Bio-One – Power Of Engineering

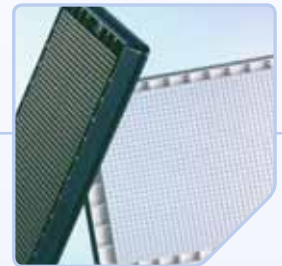
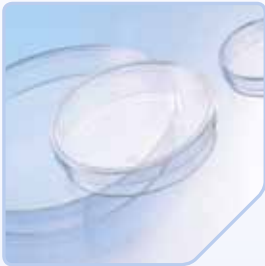


Tradition Meets Innovation

50 Years: Competence In Polymer Engineering

With the foundation of Greiner Labortechnik in 1963, Greiner Bio-One can look back on a **long history in injection moulding** within the life science, diagnostics and medical markets. Furthermore, Greiner Bio-One is part of the **Greiner Group** which gives us access to a network of world leading know-how

in areas from packaging to foam. Greiner Bio-One is a global company with a turnover of 373 million Euros, more than 1,700 employees, 23 subsidiaries and numerous sales partners in more than 100 countries.



1963

**Foundation
Greiner Labortechnik**
Start of the production of Petri dishes made of plastic

1985

VACUETTE®
evacuated blood collection system

1994

First BCS cuvette rotors for Siemens Healthcare Diagnostics

1997

Worldwide first 1536 well microplate

Greiner Group

The Greiner Group was founded in 1868. With more than 8,000 employees and a turnover of about 1.3 billion Euros the group ranks amongst the **leading plastic and foam manufactures in the world** and operates within industries including packaging, medical technology, pharmaceutical, life science, furniture, sports, extrusion dies, plant engineering and the automotive industry.



2002

Production of micro –
fluidic components



2006

DNA chip
PapilloCheck®
for cervical cancer
screening



2011

Unbreakable
evacuated tube
for ESR analysis



2013

Creation of the
Greiner Bio-One OEM
sales organisation

Greiner Bio-One Worldwide

On Site: Your Local Partner

Always close to the customer

As a global player and single source supplier, Greiner Bio-One offers **ultra-modern production plants on 4 continents** – with a centralised quality management system and a global procurement policy. As a result, customer-oriented production activities, high capacity, global warehousing and rapid delivery can be ensured. A code of conduct also governs worldwide company and employer business practices. With a global sales network specifically established for the field of OEM, Greiner Bio-One offers custom-made solutions with personal service.

Always highest quality standards

Quality is critical at Greiner Bio-One worldwide. All production sites are certified according to the interna-

tional standards ISO 9001, EN ISO 13485 as well as complying with FDA and CAMDCAS requirements for producers of medical products. Greiner Bio-One has established a **multistage quality assurance system across all production sites**. This starts with the goods-in control for raw materials. Further legal and customer-specified controls are applied throughout production. In addition, products are tested for compliance with customer-specific qualities such as sterility. Products are only considered as finished following strict quality checks. This is our quality promise.

Worldwide uniform hygiene and dress regulations for our employees as well as for our suppliers underline our high quality standards.





OEM Competences

Market Knowledge: Meets Engineering Experience

Greiner Bio-One GmbH as an Original Equipment Manufacturer (OEM) is a long-term partner of the pharmaceutical industry, biotechnology, diagnostic and medical technology industries.

Our OEM services range from 'simple' branding (**private labelling**) of an existing product line to fully customised manufacturing solutions (**true OEM**). Whatever your requirement, we offer the best solution for your needs.

The product portfolio ranges from **laboratory supplies** up to numerous user-specific products:

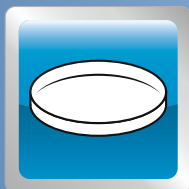
As pioneers in the field of **microplates**, Greiner Bio-One develops new plate formats and geometries as well as production techniques such as the patented film bottom.

In the field of the **pre-analytics** we offer the complete choice of customer-specific products for the sampling of body fluids (blood, urine, saliva).

We will be also glad to take over the **finishing of the plastic surface** by numerous surface modifications, as required by the customer and field of application.

In particular for the handling of samples at a micro-liter scale, we manufacture upon customer request **microfluidic product solutions** made of plastic material.

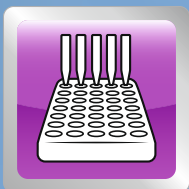
Based on the microarray technology Greiner Bio-One develops different customer-specific **DNA chips for medical diagnostics**. A large sample amount can be processed within the shortest time and be examined on the existence of certain viruses or bacteria.



LABWARE



SAMPLE
COLLECTION



PLATES



SURFACE
MODIFICATION

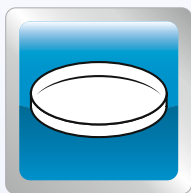


MICRO-
FLUIDICS



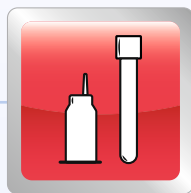


OEM Product World



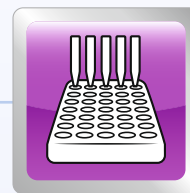
LABWARE

- Petri dishes, contact dishes
- Products for cell and tissue cultures (e. g. dishes, bottles, plates)
- General laboratory commodities (e. g. reaction vessels, tubes, cuvettes)



SAMPLE COLLECTION

- Vacuum blood collection tubes
- Products for urine collection
- Saliva collection kits
- Safety holders and blood collection kits



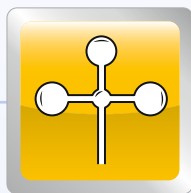
PLATES

- Microplates
- ELISA plates
- Plates with surface modification
- Plates for protein crystallisation
- Cell culture plates
- Pipette and filter tips/ Liquid Handling



SURFACE MODIFICATION

- Influencing of cell adhesion
- Protein rejection
- Hydrophobic resp. hydrophilic layers
- Immobilisation of biomolecules
- Reflection coating



MICROFLUIDICS

- Microstructured plastic platforms
- Handling in microliter scale
- Large choice of different materials and surface finishings



YOUR IDEA?

Power Of Engineering

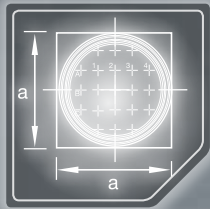
Our Specialist Field: Science and Technology

Greiner Bio-One manufactures numerous products through injection moulding. We offer the entire product development and production process **from an idea to the finished product**:

- Research & Development with diverse application and research laboratories
- Construction of tools, planning of plants and assembly lines
- Modern, fully automated production
- Post production according to customers' requirements
- Comprehensive quality assurance and management system
- Worldwide networked warehousing and customer service

From design, via prototyping, through fully automated manufacturing, we deliver the complete solution with support of experienced scientists, engineers and specialists.

Greiner Bio-One stands out with its flexible production and rapid adaptation to customer requirements and also with its ability to utilise **production sites in Europe, Asia, South America and the USA.**



CONSTRUCTION



RESEARCH &
DEVELOPMENT



PRODUCTION



GLOBAL
SERVICE



POST
PRODUCTION



QUALITY

greiner bio-one

Research & Development

Control The Future: With Know-How And Innovative Strength



Our focus is on solutions which offer decisive advantages, offering both **economic viability and real added value.**

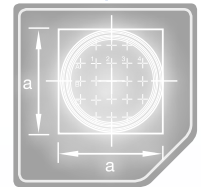
- Know-how in the field of medical science and life sciences
- Elaboration of concepts
- Scientists in the fields of natural sciences, diagnostics, medical technology and process engineering

- Application laboratories
- Internal clinical research laboratory
- Cooperation with independent research facilities
- Global experience in regulatory affairs



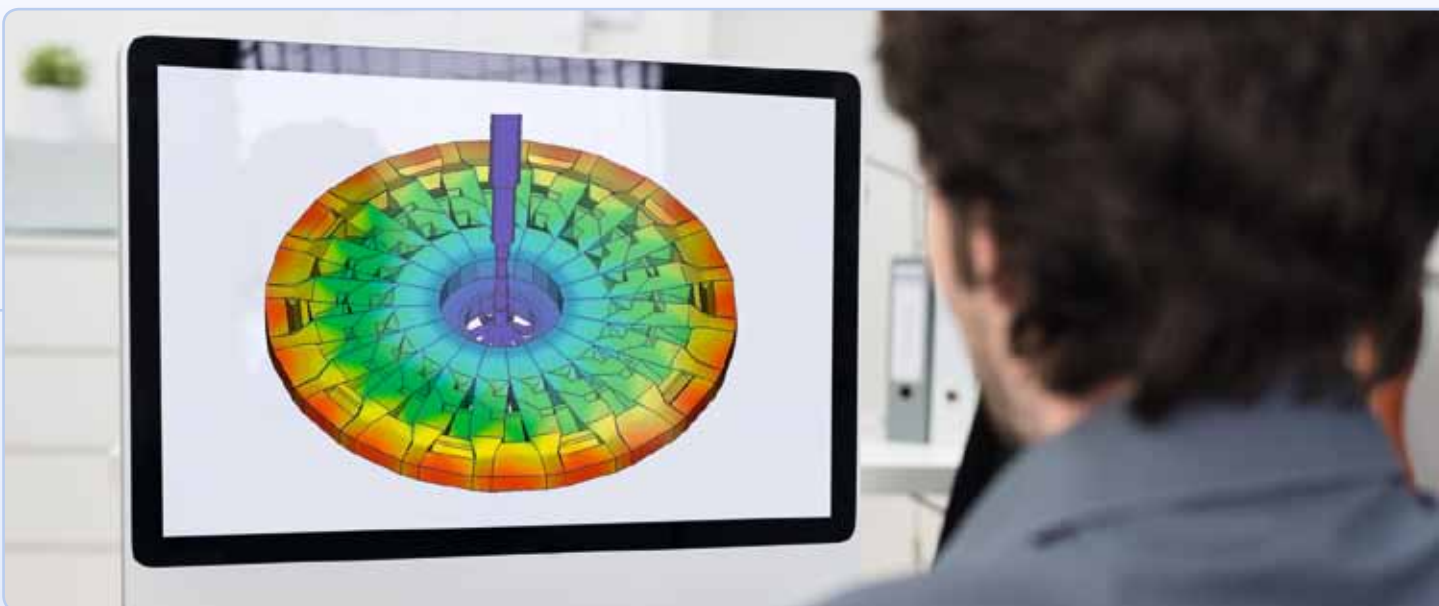
Construction & Project Planning

Attention to Detail: Tool and Plant Planning



The design phase is a critical contributor to a successful production. It is responsible for the exact planning of the tools and plants to produce injection moulded parts as well as the corresponding plants and assembly lines.

- CAD-supported product development in 3D
- Simulation of the filling process with Moldflow
- Design of injection moulds
- Prototyping
- Project planning of automation
- Individual plant planning (complex assembly lines)
- Project coordination



Production

Experience And Expertise: Guarantors Of Your Success



We comply with the highest demands of production in quality, reliability and adherence to delivery dates using **highly qualified staff** working with new concepts and technologies.

- Many years of experience and technical know-how in injection moulding or blow moulding
- Combination of plastic material with glass, metal, filters and more
- Multi-cavity injection moulding
- Modern, fully automated 24/7 production
- Defined production conditions (germination count, particle number, air pressure, temperature, humidity)
- Segmented production lines according to GMP
- Option for production under clean room conditions
- Integration of microstructures



Post Production

Finishing Touches: Customised To Your Needs



Post production we offer a series of other services – adapted to your individual requirements.

- Surface modification (physical, chemical, biological)
- Radiation sterilisation
- Ultrasonic welding
- Laser welding technique
- Adhesive technology
- Barcoding/labelling
- Modern labelling systems using ink jet, thermotransfer and laser
- Fully automated online labelling
- Production of customer-specific kits
- Customer-specific packaging and assembly



Quality

Guaranteed: As Standard



Quality management and quality assurance are critical to our operations.

- Certification according to ISO 9001 and EN ISO 13485
- Camera-assisted In-Process-Control (IPC)
- Statistical Process-Control (SPC)
- High-precision measuring machines
- Customer-specific product inspection plans
- Traceability from raw material to finished product
- Raw material testing
- Test laboratories e. g. standard or S1 cell culture laboratory, ELISA laboratory
- International product approvals e. g. CE marking for IVD or medical products
- GMP compliant and FDA-tested production
- Continuous quality training for employees
- Uniform hygiene and dress regulations for employees and suppliers

Global Service

Networked Worldwide: Production – Logistics – Customer Service



Due to our global presence and through the close cooperation of production and logistics Greiner Bio-One can rapidly react and implement any new requirements of our customers.

- Ultra-modern production sites ensure continuous product availability
- Production sites in:
Germany • Austria • Hungary
USA • Brazil • Thailand
- Globally networked warehousing

- Logistic partners in more than 100 countries
- Individual service for customer-specific solutions
- Rapid implementation by short decision-making processes



References

Our Customers: Scope Of Satisfaction

As long-term OEM partner for well-known organisations, such as Siemens Healthcare Diagnostics, BioMérieux or Immunotech, Greiner Bio-One appreciates its customer's requirements.

The excellent level of service provided and close customer contact was reflected in the results of a recent independently conducted survey.



WHEN WILL WE
BE YOUR PARTNER?







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