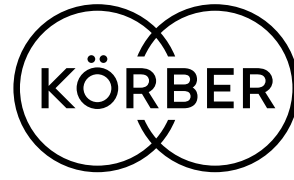




Partner of



## Aseptic Processing Solutions for Enhanced Patient Safety



PROTECTING LIFE WITH TECHNOLOGY

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*Ralf Eßling - COO  
Franz Ziel GmbH*

*Olaf Ziel - CEO  
Franz Ziel GmbH*

**Franz Ziel GmbH** is a family-run company supported by over 250 employees at its Billerbeck site. Franz Ziel USA Inc. as subsidiary in South Carolina ensures that our products and services are also accessible in the USA. With more than 40 years of experience, constant innovations and highly motivated professionals, our customers get tailor-made, individual solutions. We're among the world market leaders in the production of high-tech equipment for the manufacture and processing of sterile medicines. As such, we're closely linked with the pharmaceutical industry, a continuously growing sector with innovative and vital remedies for all of us.

As a partner of Körber, our products are also part of the Körber Ecosystem, offering integrated pharmaceutical manufacturing solutions to unlock the full potential of your productivity and your business.

Sustainability has always been an essential part of Franz Ziel's alignment. Innovative solar and heat pump technology and ecofriendly innovations are used every day to keep the CO<sub>2</sub> footprint as low as possible, true to our claim:

**PROTECTING LIFE WITH TECHNOLOGY**



*Marc Storsberg - Vice President  
Franz Ziel USA Inc.*

Since 2016, Franz Ziel GmbH, through its sister company **Franz Ziel USA Inc.**, has ensured proximity to its American customers.

At its location in Rock Hill, South Carolina, USA, it offers comprehensive on-site support in the area of service and sales.

*„Our decision to locate in Rock Hill, SC, gives us the opportunity to serve our North American customers with immediate product support and superior service.*

*Just 15 minutes from Charlotte Douglas International Airport, we have the flexibility to reach any destination quickly and easily. Maintaining the reliability of our applications requires frequent, prompt, and dependable service. We are proud to be able to offer this service to North American customers since 2016.“*

**Marc Storsberg**  
**Vice President, Franz Ziel USA Inc.**



Franz Ziel GmbH

Headquarters:

Billerbeck, Germany

Sales Office South:

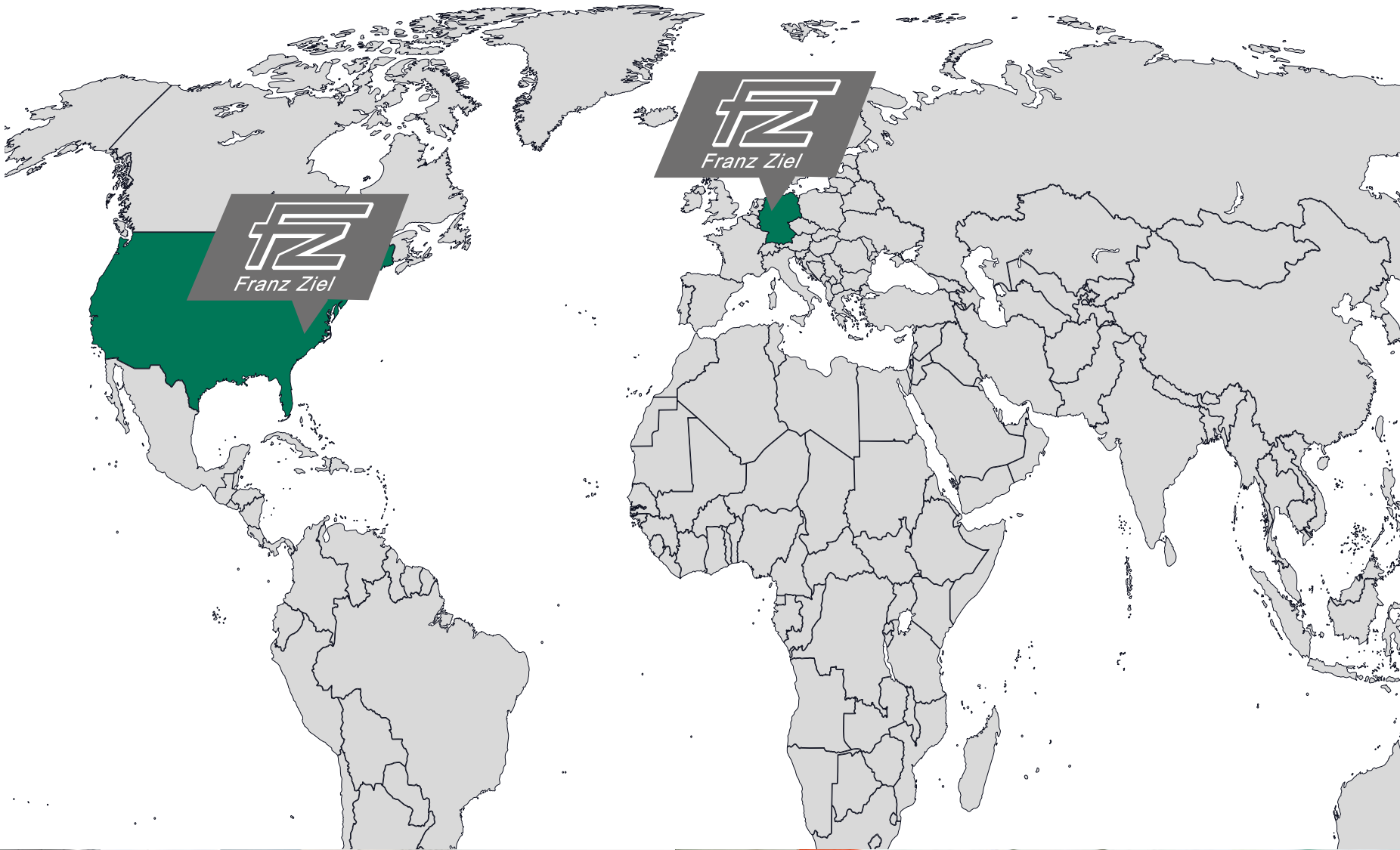
Ilshofen, Germany

Located in immediate proximity of the global leaders in pharmaceutical processing equipment.

Franz Ziel USA Inc.

Rock Hill, South Carolina  
USA

German - USA Products  
with Local Support for North America



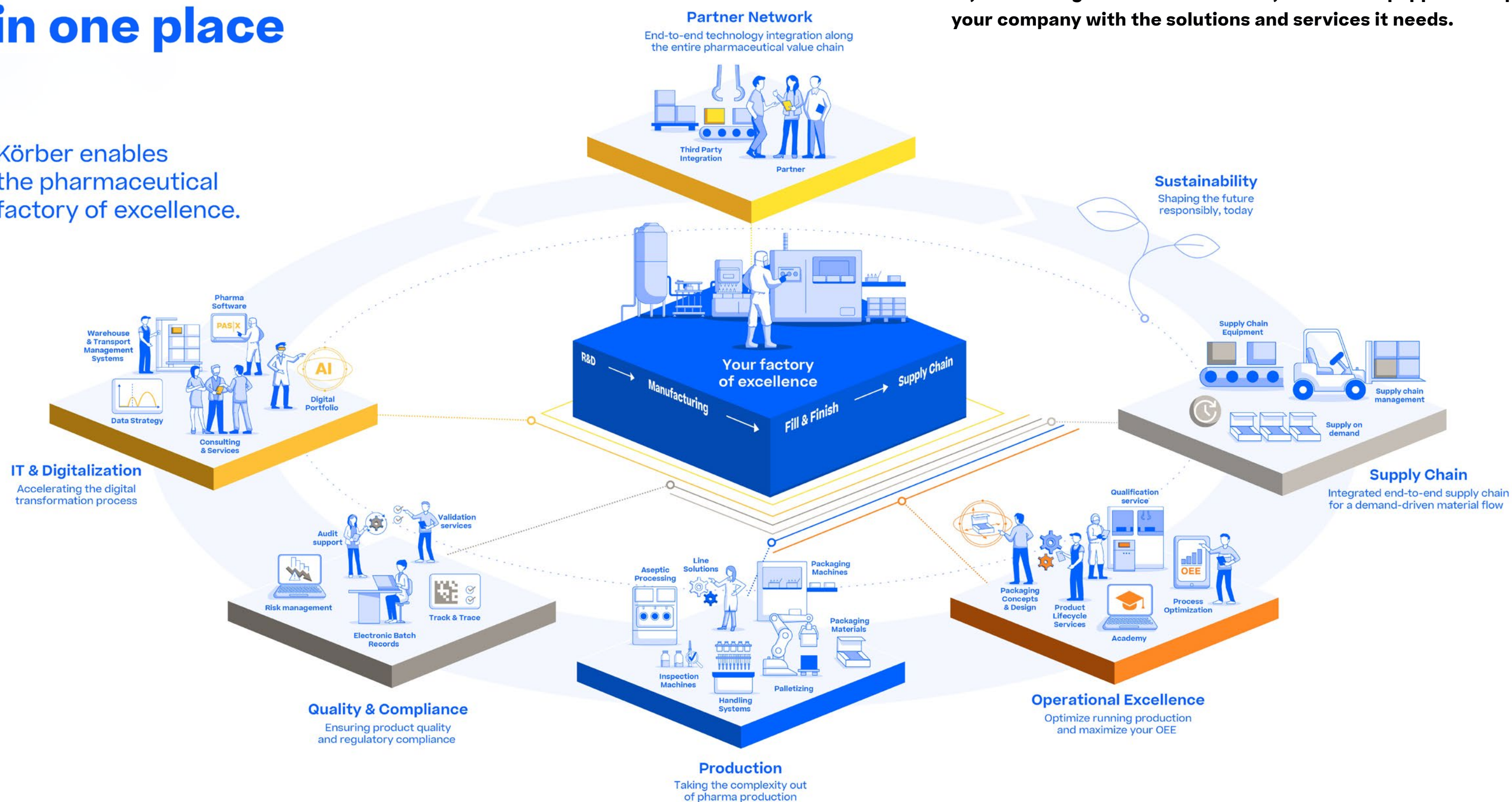


# Everything, effortlessly, in one place

Körber enables  
the pharmaceutical  
factory of excellence.

Discover  
the Körber  
Ecosystem

As an international technology group and a strategic partner, Körber offers comprehensive solutions for your pharmaceutical and biopharmaceutical factory of excellence. With more than 12,000 colleagues on all continents, Körber is equipped to support your company with the solutions and services it needs.







Leading provider for pharmaceutical contamination control technology  
for various applications



Fulfillment of the highest cGMP compliance demands of the pharmaceutical industry  
including GMP compliance consulting and services



Tailormade, customer-specific solutions  
in high-quality and GMP-compliant execution



Material Transfer



Formulation / Personal Protection



Aseptic Processing  
Technologies



GMP Compliance



Glove Testing  
System



Laboratory / Small Scale Production



Production

Barrier systems for different requirements for personal protection, product protection or a combination of personal and product protection as standard or special designs.



Isolator for Product Protection (Filling Machines / Freeze Dryers)



Isolator for Personnel & Product Protection (Filling Machines / Freeze Dryers)



Sterility Testing Isolator



Flex Lab Isolator



Personnel Protection Isolator

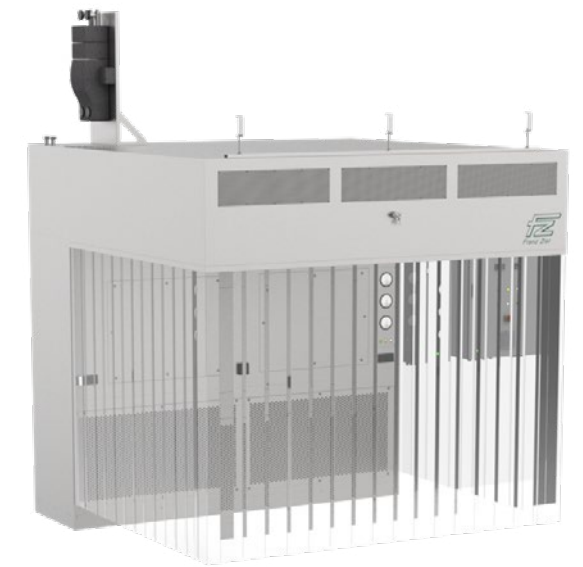
Laminar air flow systems for different requirements for personal protection, product protection or a combination of personal and product protection as standard or special designs.



LAF Units to Provide Protective (Localized) Unidirectional Airflow (UDAF)



LAF Work Bench



LAF Downflow Booth



Controlled transfer of material between different clean room zones as standard or special designs. Material transfer with or without the sterilization process.



Rapid Decon Hatch (vH<sub>2</sub>O<sub>2</sub>)



Rapid Decon Station (vH<sub>2</sub>O<sub>2</sub>)



Hot Air Sterilization Tunnel



LAF Transfer Cart (Battery Operation)

Benefit from our scientific expertise and practical experience in the GMP environment.



Risk Assessment for Environmental Control



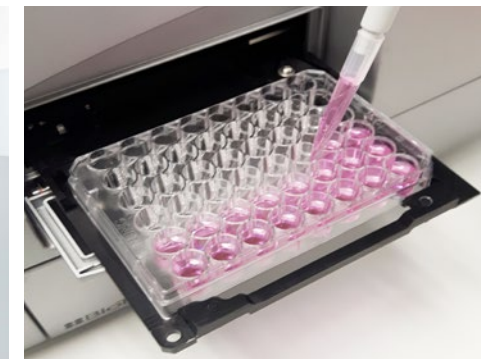
GMP / FDA Compliant vH<sub>2</sub>O<sub>2</sub> Cycle Development



Analytical vH<sub>2</sub>O<sub>2</sub> Studies  
Microbiological Support for Qualification & Development of Products



Independent Certification of Biological Indicators



vH<sub>2</sub>O<sub>2</sub> Liquid Residual Studies



No Touch Transfer (NTT) Qualification



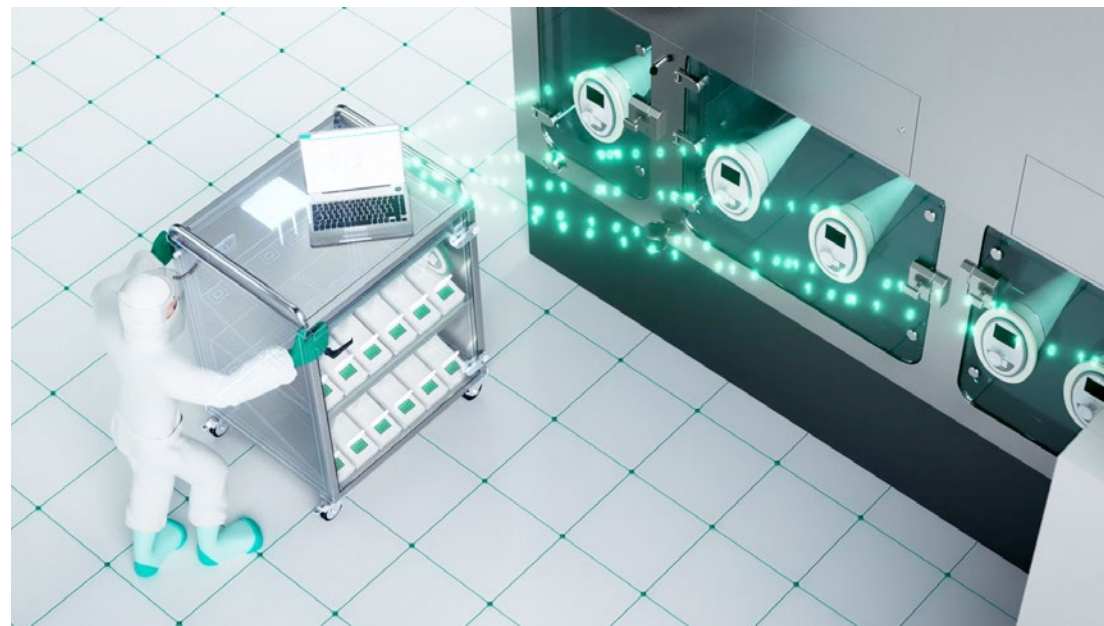
Innovative technologies to support the aseptic process.  
The GTS with the latest software technology offers an extremely flexible and fully integrable solution for glove testing as part of glove management.



GTS Glove Testing System



GTD Glove Testing Disk



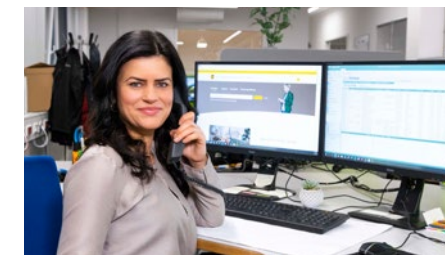
Wireless Glove Testing System

Our technical service provides calibration services, maintains optimal cleanroom conditions with professional measurement services at your production site, handles Spare Parts Management and Trouble-Shooting.

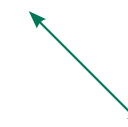
### Our Service DNA: **Customer First!**



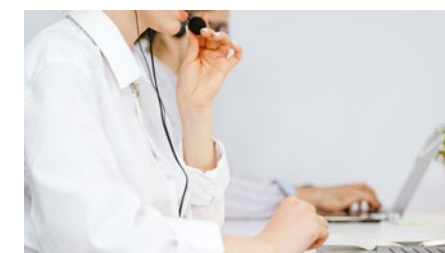
Customer



Contact Service / Sales



Taskforce



Backoffice



Team Maintenance



Our GMP Compliance team assists with process integration and review, provides input on URS, conducts GMP compliance gap analyses, supports CCS creation and risk assessments, aids in project-related developments, and provides qualification and training support throughout the entire project.



*Current Good Manufacturing Practice (cGMP) requires an understanding of process and associated science to manage contamination risks in the manufacturing of sterile medicinal products and Advanced Therapeutic Medicinal Product (ATMP)*

[Further information on www.ziel-gmbh.com](http://www.ziel-gmbh.com)



**James L. Drinkwater**

**Head of  
GMP Compliance**

*GMP facility &  
aseptic process design*

*Contamination Control Strategy  
(CCS) preparation support*

*Consultation on GMP  
requirements and compliance*



**Dr. Marina Gole**

**Senior Scientist  
GMP Compliance**

*Microbiological and chemistry  
laboratory services lead*

*GMP compliant  
process integration*

*Author for the  
customer magazine*



**Dr. Birte Scharf**

**Senior Scientist  
GMP Compliance**

*GMP compliant  
process integration*

*Aseptic containment  
lead (ACS)*

*R&D projects:  
science and compliance*



**Dr. Hussein Bachir**

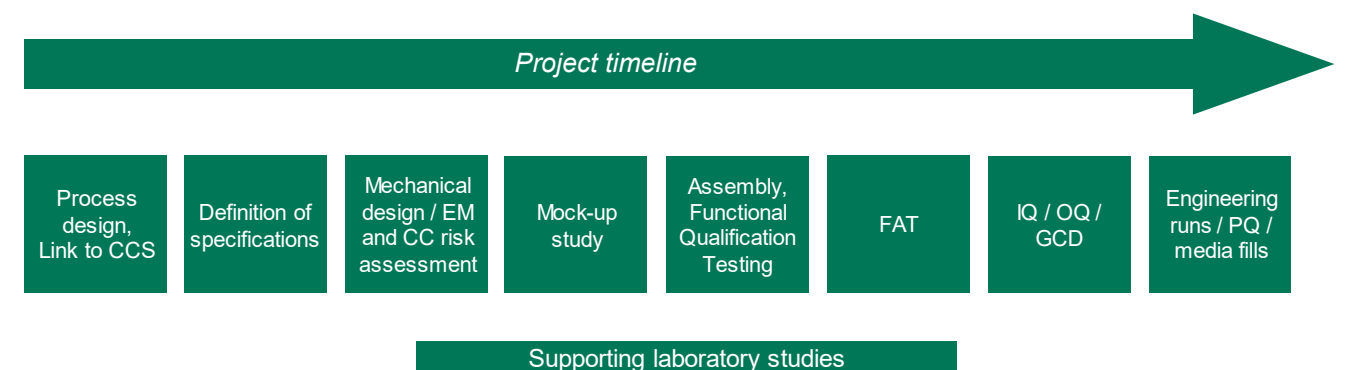
**Scientist  
GMP Compliance**

*GMP compliant  
process integration*

*Scientific conferences*

*GMP training; science  
and process*

## GMP Compliance Project Contribution



Support by GMP Compliance Team



We work together with our trusted partners.  
Our common products and services are globally  
supporting pharmaceutical companies to save lives –  
just like our mission:

**PROTECTING LIFE WITH TECHNOLOGY**

**BAUSCH+STRÖBEL**

**BÖHLE**

**CHRIST**

**Flexicon**  
Liquid Filling

**GEA**  
Engineering  
for a better  
world.

**groninger**

**HH Harro Höfliger**

**HOF**

**IMA**  
Sustain Ability

**KÖRBER**

**OPTIMA**

**PLUMAT**  
Solutions are our business

**ROTA**  
FOCUS ON DETAILS

**RYCHIGER**



Ing. Franz Ziel  
Founder



Partner of



1982 – **Founded by Franz Ziel**

1989: Construction of the 1st company building (Plant 1)

1996: Olaf Ziel joins the company

2002: 1st expansion of Plant 1

2003: Construction of the first containment isolators

2004 – **Construction of the first Aseptic Isolators**

2009: 2nd expansion of Plant 1 & Franz Ziel leaves the company

2010: Development of our own W-LAN glove testing system (GTS)

2011: Construction of the first aseptic / toxic isolator lines

2012: Construction of the second company building (Plant 2)

2013: Establishment of our own microbiology laboratory

2015: Market launch BDS – Integrated Bio-Decon System with vH<sub>2</sub>O<sub>2</sub>

2018: Construction of the third company building (Plant 3)

2021: Construction of the fourth company building (Plant 4)

2022 – **40th Anniversary**

230 employees

2023 – **Further internationalization**

First Isolator from Franz Ziel for Japan

Advancing the innovative RDS Rapid Decontamination Station

More than 250 employees

2024 – **Partnership with Körber**

The international technology group Körber has reached an agreement on a close partnership and the acquisition of a minority stake in Franz Ziel GmbH

2025 – **Construction of Plant 5**





### Energy:

- Use of heat pump technology
- Reduction of CO2 footprint through photovoltaics
- Environmental protection through energy efficient plants
- Electrical (hybrid) company cars
- Possibility of e-bike leasing by employees
- Objective for 2024: Ascertaining of direct and indirect greenhouse gas emissions



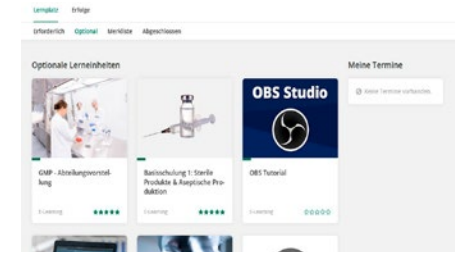
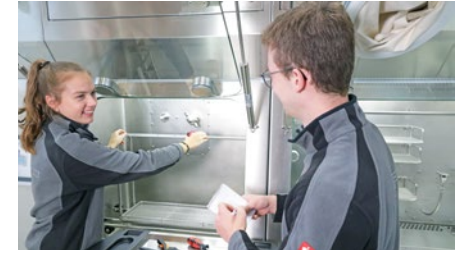
### Employee Well-Being and Health:

- Remote working options
- Excellent workplace conditions
- Active health management
- Occupational safety management
- High-quality employee training



### Societal Responsibility:

- Investment in education
- Social commitment
- Assumption of responsibility in times of crisis
- Data protection
- Know-how transfer via LMS



### Corporate Culture:

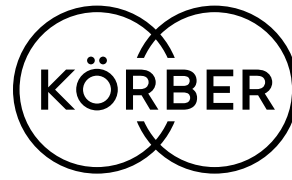
- Open minded culture of error
- Equality and diversity
- Promoting of team spirit
- Creation of meaning & strengthening of competence
- Hybrid project management







Partner of



We appreciate your interest and the questions you raised while reading through our product brochure. Should you have any immediate queries or require assistance, please feel free to contact us. Alternatively, you can visit our website at [www.ziel-gmbh.com](http://www.ziel-gmbh.com) for further information.



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CONTACT US