



# THE FASTEST WAY FROM PLANNING TO IMPLEMENTATION.

Think. Work. Integrate.

**PITZEK**   
GMP CONSULTING

# Quality. Precision. Common sense.

Pitzek GMP Consulting

## THE MOST EFFECTIVE WAY TO GOOD MANUFACTURING PRACTICE

Decades of experience in consultancy in pharmacological, biological and food technology marks us out and make us skilled and reliable partners. We deliver innovative ideas and strategies aimed at reducing costs and optimising your processes. In doing so, we place quality as the highest priority. This is the key to successful industrial companies in the global context.



## PIONEERING GOOD MANUFACTURING PRACTICE

GMP stands for Good Manufacturing Practice and this is precisely what we are aiming for: the development of designs and strategies which will optimise your workflows, reduce costs, reduce workload for your employees – which giving you the security that all regulations relating to your sector are observed.

## GMP IN ALL FACETS OF OUR RANGE OF SERVICES

- **GMP Consulting / QMS**
- **GMP Engineering**
- **GMP Qualification / Validation**
- **Project Management / Planning**
- **Technology Transfer**
- **Computersystem Validation**



# Think.

## THE SIMPLEST WAY TO INTERNATIONALLY SUCCESSFUL BUSINESS

Skilled consultation is our business – and your benefit. Pitzek GMP Consulting supports globally active companies in the pharmacological, biological and food industries by making their processes and systems even simpler and more efficient, complying with regulations and meeting demands. This is always based on the most up-to-date specialist knowledge and years of experience.



## GMP CONSULTING

Our experts advise companies in all the relevant areas of GMP, always with the consideration of commercial aspects. We will support you in quality control, quality assurance, production and with technical service. Our work is based on well-founded knowledge of all international regulations, official requirements and detailed insight into the processes within your sector. High-quality, GMP-compliant concepts are built on this foundation – and you save valuable time in marketing your products.



# QUALITY MANAGEMENT SYSTEM

## **We make you EU and FDA ready**

The quality management system in the pharmaceutical industry helps to improve the product quality and minimize the risk of recall. We support you in planning and documentation, in preparations for audits and inspections, help with the adaptation to changing framework conditions and stand for your quality assurance.

### **Services:**

- Building of a QMS according to EU or FDA GMP Guideline and preparation of the QM manual
- Exact verification of existing processes and production process
- Internal and external compliance risks are identified and assessed
- Identification and rectification of vulnerabilities and defects (gap analysis)
- Documents are sensitively examined and supplemented
- Processes and documentation are self-explanatory for all employees involved
- Implementation of self-inspections and monitoring of official inspections

# Work.

## THE COMPLETE WAY FROM THE AWARD UNTIL THE ORDER

We have answers to all your GMP relevant questions about your desired measures and the securing production. In doing so, we always pay attention to quality.



## GMP ENGINEERING

We will support you in your entire project planning, from the awarding process up to order placement including Basic and Detail Engineering. Our specialists will produce the URS and the entire specification for you, deal with enquiries from machine suppliers and evaluate the tenders from a technical and commercial point of view. We always keep focus on budget, quality and deadlines.



# GMP QUALIFICATION / VALIDATION

Pitzek GMP Consulting will carry out the complete implementation of GMP-compliant qualification and validation projects, whether that is in the production of pharmaceuticals, active substances, cosmetics or foodstuffs and animal feeds. In this way, our experts contribute to you being able to market your products even faster.

## **Our services include:**

- Creation of a Master Plan
- Preparation of technical documentation (e.g. User Requirement Specification)
- Creation of Specifications and lists of Requirements

## QUALIFICATION

The highest level of quality assurance is the highest priority to us as any deviation have a direct influence on the health of the consumer. Through our services in comprehensive qualification, our experts will ensure fault-free functioning of installations, product quality and the fulfilment of all binding official requirements of the health authorities.

## VALIDATION

Within the process of validation, our specialists will create a firm foundation for bringing the final product to the market. This includes confirmation that the installations/devices have been qualified and deliver safe reproducible results. Processes, cleaning systems and IT can be validated. An expert risk assessment forms a basis on which we can carry out a validation plan pursuant to precise regulatory stipulations, (EU-GMP-guidelines, FDA, PIC/S etc.).

# Integrate.

## THE MOST DIRECT WAY FOR MARKETING YOUR PRODUCTS

Our expert team will support you in planning your GMP-compliant installations using the most up-to-date tools and technologies. On request, we would also be happy to act as Works Lead Engineers for you.



A man in a dark suit and tie is shown from the waist up, pointing his right hand towards the left. The background is a blurred office setting. A semi-transparent blue overlay covers the right side of the image, featuring a faint grid pattern and a large, stylized architectural structure. The text 'PROJECT MANAGEMENT/PLANNING' is written in large, white, sans-serif capital letters across the middle of the image.

# PROJECT MANAGEMENT/PLANNING

If you entrust your project management to the experts of Pitzek GMP Consulting, you are guaranteed smooth, simple processes. We have been planning industrial installations in the fields of pharmacology, chemistry and food. We can thus support you in all project phases, from project definition to successful conclusion. Every single one of our consultants has completed an engineering degree – skills that you can rely upon. For you that means comprehensive freeing up of your own resources and high adherence to schedules.

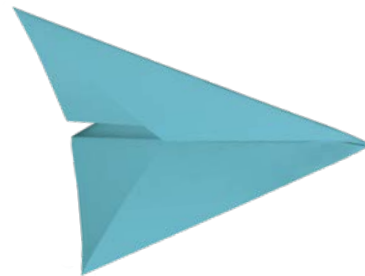
**Our services include:**

- Definition of project aims
- Setting up project structures
- Definition of milestones
- Resources, schedule and budget planning
- Project meetings
- Award of Contract
- Supporting and final documentation
- Management of partial projects
- Management of external suppliers and providers

# Special Competences

## THE FASTEST WAY TO RESULTS-ORIENTED PERFORMANCE

Our experts have extensive industry practice in international projects and all areas of GMP. Permanent qualification of employees ensures, that our experts are always up-to-date in technologies, project management as well as legal requirements.



# TECHNOLOGY TRANSFER

A technology transfer is what happens when a pharmaceutical company wants to move from an existing production site to a new production site. Tech-Transfer in the pharmaceutical industry means more than copy & paste! There are often reasons to move an existing product to another location or to build additional capacity. Most people talk about "copying the existing assets and processes".

It sounds simple, but there's more behind it. The manufacturing process is influenced by many factors. That's why quality must be paramount in a tech transfer. Critical characteristics of the product must be known and taken into account.

## **We assess:**

- Manufacturer's original information, raw materials, critical process parameters, equipment and batch size in consideration of scale up and FDA guidelines
- We check the transmission protocols in order to record the process correctly
- Development of transfer tools and a thorough process – transition to validation

## **There are 4 key positions that also need to be challenged to ensure successful technology transfer:**

- Packaging line testing
- Stability display methods
- Cleaning validation
- Health and safety review

# COMPUTER SYSTEM VALIDATION

Computer validation is the documented testing of software or a computer system. As a manufacturer of pharmaceutical products, it gives you documented proof that computer-controlled or automated systems perform consistently, in compliance with predetermined regulations.

With many years of experience, we offer you tailor-made computer system validation. We test your software for practicality and reliability. We will demonstrate together with you in a comprehensible manner that your computer system will function correctly after changes, modernization or even rescheduling and are suitable for the purpose used. Automated systems are tested and validated in accordance with US and EU regulations. This gives you inspection security through documented measures and various tests.

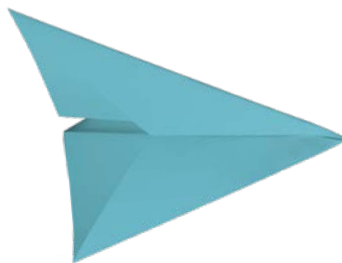
## **Our Services:**

- Risk analysis according to GAMP 5
- Creating of quality project plan
- Validation schedule and process validation
- Creation of important engineering documents
- Preparation of qualification documents
- Creation of test plans
- Execution and documentation of FAT and SAT tests
- Creation of test logs
- Execution of Design Qualification (DQ)
- Execution of installation qualification (IQ) and functional qualification (OQ)

# Special know-how

## THE MOST RELIABLE WAY TO WELL-FOUNDED SECTOR KNOW-HOW

With our team, we work in a loyal, focussed and personal manner. Keeping to deadlines and absolute reliability are our guiding principle. Taking responsibility for our actions and maintaining a high profile is essential for us. In this, we check proportionality very critically by standards of reasonableness.



## CLEAN MEDIA PHARMA- CEUTICAL & BIO- TECH INDUSTRY

Water is the most widely used raw material in the pharmaceutical and biotech industry, so water and other ultrapure media, such as ultrapure steam, are indispensable components of numerous processes.

For reliable production without impurities, high-quality drinking water, purified water, water for injections and also ultrapure steam are required.

### **We know the complete process and know what is possible.**

We advise you on the optimization of your systems and processes and are happy to support you in the implementation of qualification/validation or in studies for process optimization. Together with you, we develop and implement the best possible process solution, of course in compliance with the highest quality and safety standards.



IN TUNE WITH TECHNICAL EXCELLENCE

# ISOLATOR- AND FILLING TECHNOLOGY / CONTAINMENT

Our long experience in sterile filling technology with isolator technology gives our customers a high level of security. That is because we offer holistic support, in planning, design and implementation of regulation-compliant installations. If you wish, we will take over complete project management, leaving you to concentrate on other things, e.g., the development of new products.

**Our services include:**

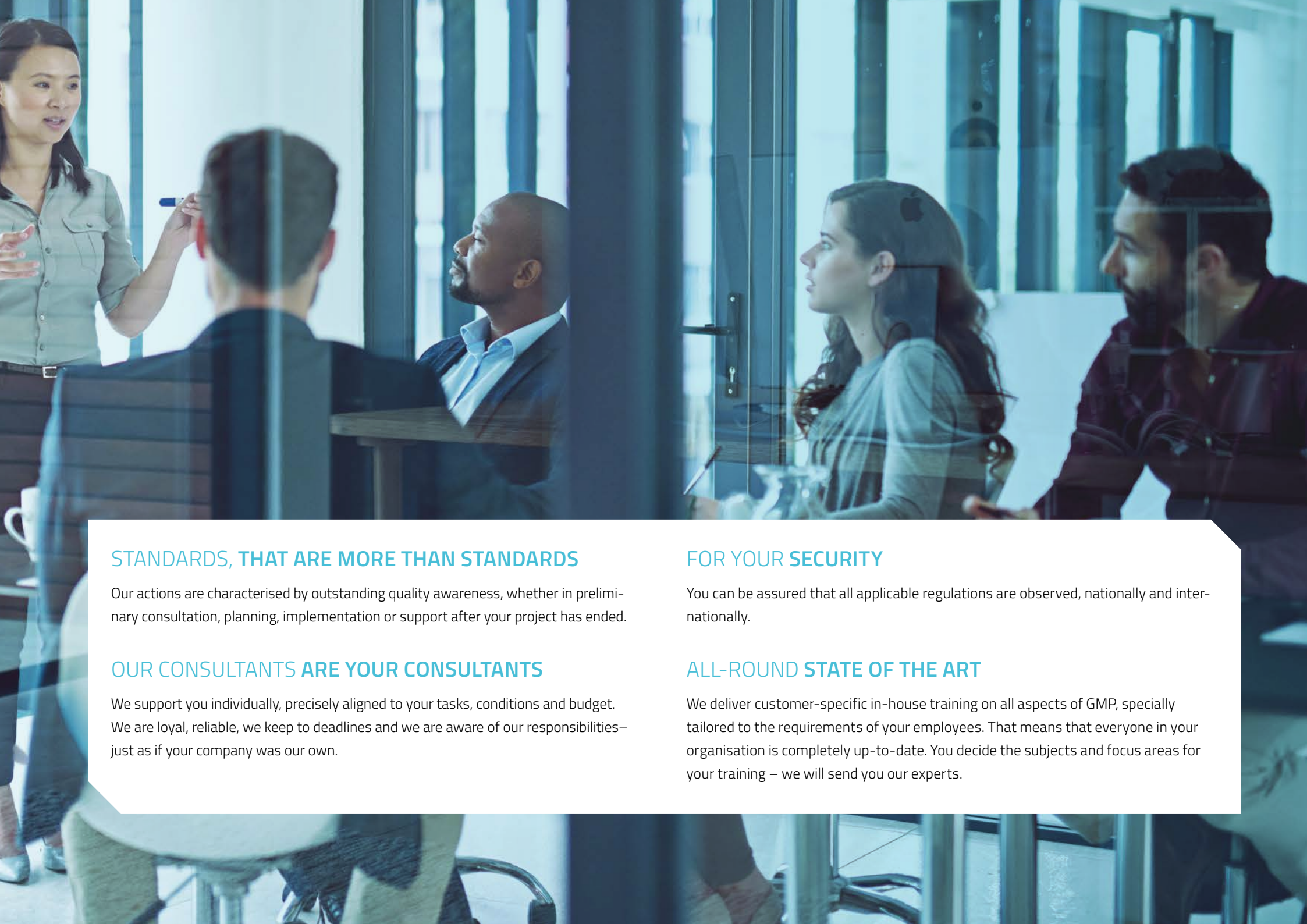
- Consultation in the procurement of new installations and machines for sterile filling processes and Fill & Finish appliances in sterile areas, as well as for solid production, such as tablets and capsules
- Creation of tender documents
- Evaluation of proposals
- Conception of risk-analysis workshops
- Mock-ups, which we conceive and implement either under own auspices or together with you

# To manage highly challenging processes.

## THE SAFEST WAY TO THE DESTINATION

Our experts have extensive experience in the sector from international projects and in all areas of GMP. Permanent qualification of employees ensures that our specialists are always at the cutting edge, be that in issues concerning technologies, project management or legal requirements.





## STANDARDS, THAT ARE MORE THAN STANDARDS

Our actions are characterised by outstanding quality awareness, whether in preliminary consultation, planning, implementation or support after your project has ended.

## OUR CONSULTANTS ARE YOUR CONSULTANTS

We support you individually, precisely aligned to your tasks, conditions and budget. We are loyal, reliable, we keep to deadlines and we are aware of our responsibilities—just as if your company was our own.

## FOR YOUR SECURITY

You can be assured that all applicable regulations are observed, nationally and internationally.

## ALL-ROUND STATE OF THE ART

We deliver customer-specific in-house training on all aspects of GMP, specially tailored to the requirements of your employees. That means that everyone in your organisation is completely up-to-date. You decide the subjects and focus areas for your training – we will send you our experts.

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