

Harmonized Processes for Pharma Companies.

Handling systems.
Conveying systems.
Blenders.
Dosing systems.
Cleaning systems.
High-containment valves.
Containers.

Turnkey Plants, Maintained for Life

Müller Processing plans, designs and produces in Münchenstein (Switzerland) and in Rheinfelden (Germany) handling equipment, dosing systems and GMP washers. The customer service ensures professional care of the plants during their whole life cycle.

Müller Processing specializes in interface management and offers matched and sophisticated handling systems such as lifting columns, blenders and pallet changers. Dosing systems guarantee the highest accuracy in the gram range for formulating, charging, dosing and filling bulk goods. The MCV containment split valve guarantees contamination-free transfer or filling of toxic media. GMP washers offer validated cleaning processes for a wide range of customer requirements.

Years of experience and comprehensive competences make Müller Processing the ideal, globally present partner for turnkey facilities in the overall process.

Müller Processing will work out and implement proven, innovative and tailor-made solutions for projects of any size. Flexible, cost-optimized and with short delivery dates.

Müller Processing is a member of the Müller Group.

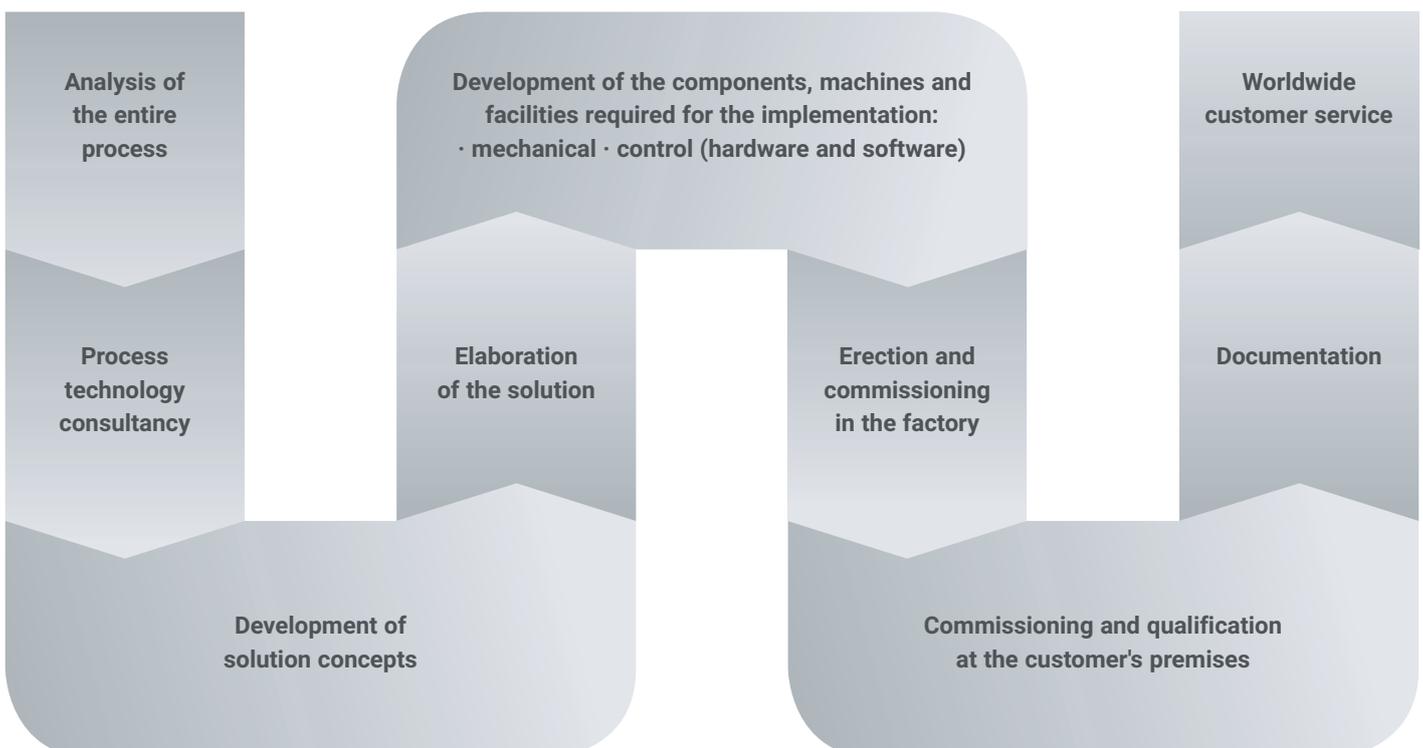
The four companies in the Group develop, manufacture and sell

- industrial packaging made of mild steel, fibre, plastics and stainless steel,
- storage, transport and process containers out of stainless steel as well as
- handling, dispensing and GMP washer systems.

The Müller Group offers its customers individual solutions for a wide range of applications in the pharmaceutical, chemical, hygiene, cosmetics, flavors and fragrances, food, mineral oil, paints and coatings, semiconductor, storage and distribution industries.

The internationally oriented family enterprise with over 120 years of experience has 400 employees at production sites in Switzerland and Germany. The Group's worldwide presence is underpinned by a network of more than 50 representatives.

CUSTOMER SUPPORT BY MÜLLER PROCESSING THROUGHOUT THE OVERALL FACILITY IMPLEMENTATION PROCESS



For Safe Movement Sequences and Processes

Müller lifting columns facilitate the feeding of tablet presses, capsule filling machines, blister machines, and screening machines. In addition to the lifting motion, versions with electrical motors can perform swiveling, inverting and gripping movements. Suitable grippers are available for every application and every container shape – drums, round and square containers or big bags.

YOUR CUSTOMER BENEFITS AT A GLANCE

- customer-specific configuration
 - precise repeatability for the lifting, inverting and gripper positioning
 - load capacity up to 1,500 kg
 - rustproof stainless steel in GMP design
-



Müller drum and container blenders guarantee the precise and safe carrying of blending containers of varying sizes. The recipe management allows optimal adaptation of the product to be blended. The facilities offer high blending performance for a wide range of powders while preserving substance quality.

YOUR CUSTOMER BENEFITS AT A GLANCE

- gentle product mixing
 - individual configuration of the blending parameters
 - highest validity
 - data protocol for batch release
 - GMP design
-



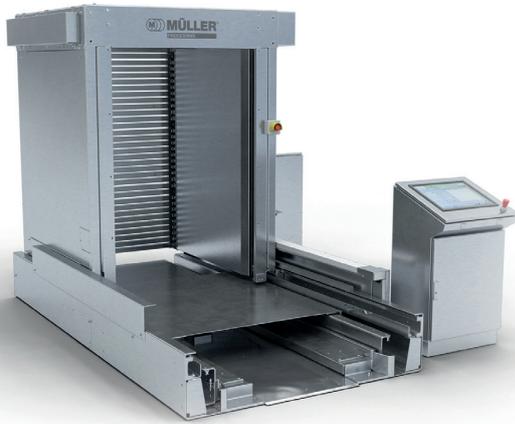
Müller's containers are specifically designed to meet the high requirements of the pharmaceutical industry. Butt-welded and smoothed weld seams for optimal emptying and residue-free cleaning. The container range offers variants with different inclination angles, closing elements and valves.

YOUR CUSTOMER BENEFITS AT A GLANCE

- produced with the WIG welding process
 - individual versions (electropolished, wash pickled, polished, materials)
 - documented manufacturing processes
-



Pallet Changers – Hygienic Repalletizing



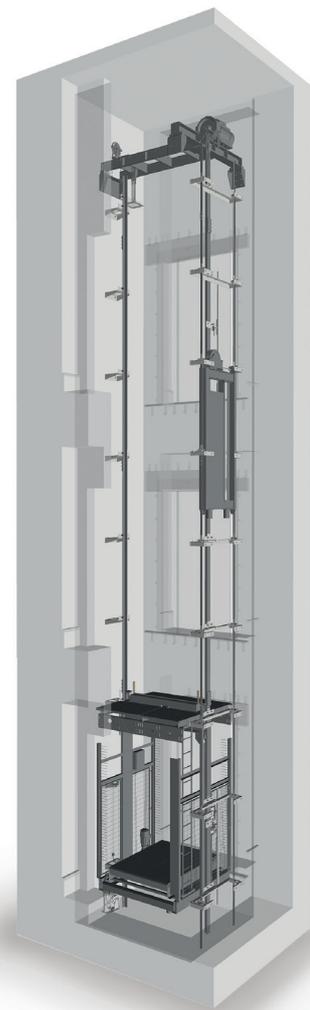
For hygienic reasons, goods entering on wooden pallets often need repalletizing – on aluminum, plastic or clean wood pallets. Manual and automatic Müller pallet changers ensure easy and safe handling of the load.

Safe Goods Flow between Floors

Tailor-made vertical conveying systems allowing the adaptation of the control, the operation and the conveying flow to the customer requirements ensure efficient and safe material flow. Müller offers innovative solutions for a wide range of demands such as e. g. clean room compatible and with energy recovery.

YOUR CUSTOMER BENEFITS AT A GLANCE

- system selection according to load and performance
- time gain through automation
- gentle handling of the goods
- connection to roller conveyors and buffers
- highest safety standards



tailor-made

overall process

customer-specific

all from one single source

turnkey



For Accurate and Safe Powder Transfer

Müller Dosing systems offer highest accuracy for formulating, charging, dosing and filling bulk goods. They prevent cross-contaminations and they protect both the operating personnel and the environment. The silicone dosing element is FDA-compliant, meets the EX requirements, is corrosion-resistant and maintenance-free. A modern control panel contributes to the safe and efficient operation of the dosing system.



YOUR CUSTOMER BENEFITS AT A GLANCE

- suitable for almost all powders, granulates and tablets
- low-wear dosing element requiring no moving parts, seals or bearings.
- designed for single-use applications (inliner) for toxic bulk goods
- can be combined with Müller blenders, lifting columns, MCV valves and containers

MCV Valves for Contamination-free Transfer

Safety is the key issue if the operation requires transferring and filling highly active or toxic substances. Müller's robust and stable split butterfly valve system includes an active and a passive part. It is designed according to GMP aspects, it is quick and easy to clean and it meets the requirements for compliance with occupational exposure limit values in the ambient air.



YOUR CUSTOMER BENEFITS AT A GLANCE

- protects from cross contamination
- optimal operator safety
- optimized product protection
- entirely closed product handling
- no product trapped in the sealing area

Cleaning Solutions for All Demands

Müller pharmaceutical washers allow flexible cleaning of all production equipment in the GMP environment. Innovative technologies ensure highest efficiency and low ultrapure water consumption. The state-of-the-art hygienic design offers highest product safety. The compliance with all latest GMP requirements allows continuous, systematic and consistent validation with a safely reproducible cleaning and drying process.



Müller offers individual chamber sizes and facility layouts, as well as customer-specific solutions for a wide variety of technical requirements. The range includes

- GMP container washers (PCC)
- GMP small parts washers (PDC) and wash racks
- modular GMP container inside washers (VCD)
- customized wash racks

YOUR CUSTOMER BENEFITS AT A GLANCE

- modular facility concepts for most diverse requirements
- flexible automated cleaning of almost all washable production equipment in the GMP environment
- state of art washing solutions for pharmaceutical industry
- compliant with all requirements and specifications for pharmaceutical production



Responsible Management for the Benefit of the Customers

CUSTOMER FOCUS

- technical and process-oriented understanding of the customer requirement is the initial basis
- we strive for optimal customer benefit
- we assist our customer throughout the process as a whole thanks to products and services from one single source
- we ensure sustainability through customer advice and downstream service
- we strive for a long-term partnership based on mutual appreciation

ENGINEERING

- design of new facilities
- planning and extension or modernization of existing facilities
- development of alternatives as a basis for decision making
- high planning security
- short planning times

QUALITY MANAGEMENT

- quality management in compliance with ISO 9001
- occupational safety in compliance with ISO 45001
- environmental management in compliance with ISO 14001
- ongoing optimization of the business processes
- continuous employees training

ENVIRONMENTAL MANAGEMENT

- careful use of resources
- compliance with laws and relevant standards
- reduction of environmental impacts throughout the whole product cycle
- responsible disposal of consumed materials
- monitoring of the environmental management by measuring defined relevant values

Discussing customer demands



Müller Group.

From Packaging to Processing.



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Storage, transport and process
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Integrated handling, dispensing
and GMP washer systems.

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