



# 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. GMP washers offer validated cleaning processes for a wide range of customer requirements. The competence regarding split valves for contamination-free transfer or filling of toxic media is a perfect completion of the wide product portfolio.

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.

Müller Group offers its customers individual solutions for a wide range of applications for pharmaceuticals, chemicals, hygiene and disinfection, cosmetics and body care, flavors and fragrances, food, mineral oil, paints and coatings, semiconductor technology, storage and distribution.

The internationally oriented family enterprise with over 125 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

Analysis of the entire process	facilities required fo	Development of the components, machines and facilities required for the implementation: • mechanical • control (hardware and software)	
Process technology consultancy	Elaboration of the solution	Installation and commissioning in the factory	Documentation
Development of solution concepts		-	g and qualification mer's premises

### Handling systems

# 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 validability
- 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 residuefree 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

### Handling systems

# 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

customer-specific

overall process



all from one single source

turnkey

### Dosing systems

## 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

# Containment valves from Müller together with Andocksysteme

Safety is the key issue if the operation requires transferring and filling highly active or toxic substances. Müller's long established know how in pharmaceutical processes together with the leading containment techology of the company Andocksysteme are the ideal couple for split butterfly valve systems which are perfectly adapted to the individual situation.

### YOUR CUSTOMER BENEFITS AT A GLANCE

- ideal partnership Müller/Andocksysteme based on their individual corecompetences
- · leading split butterfly valve techology
- modular concept in perfection down
- to the smallest detail • GMP design, easy to integrate
- short downtimes of the installation thanks to optimized cleaning and maintenance concepts



# 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 sourcewe ensure sustainability through customer advice and
- downstream servicewe 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.



#### MVM Pack-Holding AG

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### UN-approved packaging made of mild steel, stainless steel and fibre.

#### Müller AG Verpackungen

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### Storage, transport and process containers out of stainless steel.

Müller DrumTec GmbH Industrieweg 5 79618 Rheinfelden Germany T +49 7623 969 0 F +49 7623 969 69 drumtec@mueller-group.com



Plastic packaging and technical moldings.

#### Müller AG Plastics

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### Integrated handling, dispensing and GMP washer systems.

#### Müller AG Processing

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