

Our service goal

Fritz Keller AG covers the area of applications for pharmaceutical and cosmetic products in paste to liquid forms, including some in powder form.

Fritz Keller AG is the parent company for three other production companies. They are Aerosan AG with its core business of aerosols, Cosmina AG with industrial and household cleaners as well as ESWA AG with washing powders and laundry additives. All four companies form the Frike Group.



Our goal is: Thanks to our comprehensive outsourcing system, customers can largely dispense with the development, inspection, manufacture, packaging, warehousing and logistics of their products themselves. Duplication is eliminated. Our clear target is to relieve customers of the majority of process-related working stages. This enables customers to focus on their core business to a greater degree.

Location

Fritz Keller AG is located at Auenstrasse 761 in 8617 Mönchaltorf in the Zurich Oberland.

Access is good. The motorway can be accessed via Uster or Esslingen. The company's premises are approximately 7 kilometres from the motorway.

Covering a total area of 12,000 m², the company premises consist of approximately 7,000 m² of usable surface area for production and approximately 400 m² for offices. The company was purchased in the mid-1950s by Fritz Keller AG and has been continuously expanded and upgraded. The property is owned by Fritz Keller AG.

A company of the FRIKE group



Organization / Personnel

Fritz Keller AG was formed in 1944 as a private company. It became a joint stock company in 1970. Throughout the years, the company developed into an efficient partner in the field of production based on hourly rates of pay. In order to increase performance as well as expand the company's know-how, the companies mentioned above were acquired over the years. Fritz Keller AG handles a range of central duties for these companies, such as, for example, human resources, bookkeeping, controlling, sales, marketing, information technology, etc. All these activities are grouped together under the Frike name and are at the disposal of the other companies as service centres. Thanks to this central function, the individual production companies can operate with very flat organizations and are thus able to focus on their main core activities.



With a network of computer systems specially designed for QA and production, all companies have rapid access to central data.

The high level of mobility of individual senior managers ensures that this can be accessed at any time even on customers' premises. Problems can thus be efficiently solved and information on details can be given immediately.

Environmental situation

Fritz Keller AG has its own waste-water collection, neutralisation and precipitation systems. All waste-water is collected in storage basins. This area of the plant is continuously monitored by personnel and instruments. A wide range of chemical and physical values are also subject to continuous inspection both inside and outside the plant.

Production stages and processes are precisely monitored and improved on a continuous basis. This aspect receives particular attention in the case of new developments to ensure full compliance with Switzerland's strict environmental laws. There are no other emissions.



The company is subject to the Hazardous Incident Ordinance and is thus permanently monitored by Federal authorities as well.

Purchasing / Logistics

As the central coordination point for our production companies, Fritz Keller AG also handles strategic procurement. Contract calls, packaging material procurement, etc. are dealt with by the individual companies on the spot. We maintain international contacts with suppliers of raw materials and packaging. This allows our customers to leave selection and procurement to us. Alongside our wide range of raw materials and packaging, solutions can also be found for special requests. We purchase quantities ranging from minor amounts through to tanker-size volumes. Coordination within the Frike Group allows the company to purchase top-quality raw materials and packaging at appropriate market prices.

Quality assurance / Laboratory

Many development tasks are carried out in the central laboratory at Fritz Keller AG. Our extremely well equipped development laboratory also enables us to carry out analytical work for our subsidiaries. We have all the important instruments that are standard in our branch of business (HPLC, IR, UV, GC, etc.). When highly specific analyses are required, there is a wide range of contacts with different service laboratories.



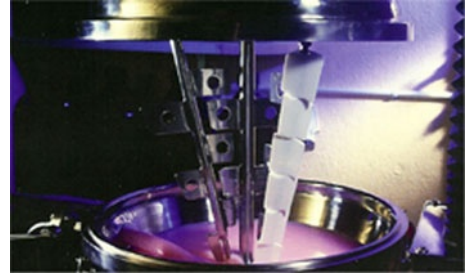
The company has process-oriented certification to ISO 9001. The flow of raw materials and packaging is controlled by barcode, assuring complete traceability to the relevant delivery. This means that the corresponding batches can be easily identified and traced just by pushing a button on our sophisticated QA computer system. All QA data is stored specifically for each article and is immediately accessible for most members of staff should customers have any queries. If any discrepancies arise, this helps us not only to provide data and facts immediately and without any complications but also to take the corresponding measures.

The quality assurance laboratory is headed by the laboratory manager and not by the works manager, which ensures that quality assurance meets the requirement for separate areas of authority.

In the field of development, the know-how within our four companies enables us to place a wide range of knowledge - even in details - at our customers' disposal. We exploit the entire know-how network of all our companies to ensure that we can submit solid proposals. As we have a team of highly trained chemists in all areas and at all levels of the company, it is not difficult to implement our customers' wishes.

Production plant

Batches range in size from 30 kg to 2,200 kg. The machinery is made of V4A-grade steel and suited to GMP production.



Process mixers

Process mixers in various sizes for liquid to paste products	1 x 15kg	Pressure, vacuum, heating, cooling
	1 x 30kg	Pressure, vacuum, heating, cooling
	1 x 200kg	
	1 x 400 kg**	
	1 x 600kg	
	1 x 800kg	Heating, cooling
	1 x 600kg	
	1 x 1,500 kg	Pressure, vacuum, heating, cooling
	1 x 2,200 kg	Heating, cooling
Technical mixers	1 x 3.0 tons**	
	1 x 3.2 tons**	Heating, cooling

** These mixers are fully automatic, i.e. this plant can be used to produce major volumes speedily and precisely under computer control (with mixing report).

Production capacities in the liquid sector are currently running at 10 - 25 tons per day/shift. This figure is dependent on the product, the process and, to some degree, on filling capacity, etc.

Of course, capacities can also be boosted at short notice by the use of additional members of staff and extended shifts.

Filling plant

The filling facilities are designed to package anything from small series (>1,000 units) through to medium-sized series (>50,000 units). The production plant is designed to be highly flexible. I.e. we can put together a suitable production line for almost all orders. The plant is designed to handle both labelled and printed standard bottles, trigger bottles as well as specially shaped bottles. We also have machines for boxing, cellophane wrapping and shrinking.



Liquid fillers

Multipurpose fillers, bottles, tubs, pouch.	35 units/min.	25 ml - 2,000 ml
Multipurpose fillers, bottles, tubs	35 units/min.	25 ml - 2,000 ml
Linear fillers, 6 stations, canisters	25 can./min.	5,000 ml - 10,000 ml
Linear fillers, 4 stations, bottles	40 bottles/min.	100 ml - 1,000 ml
Tube fillers	40 tubes/min.	8 ml - 300 ml
Manual filler	1 station weighing	5 l - 30 l
Various manual fillers for small series		

Powder fillers

These fillers can be integrated into the multipurpose fillers, which enables us to fill powder tubs in the field of pharmaceuticals and cosmetics	20 cans/min.	10 g - 500 g
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Storage tanks, storage areas and warehousing

We have large storage tanks for raw materials with storage capacities of up to $2 \times 20 \text{ m}^3$ as well as $8 \times 18 \text{ m}^3$ per tank. Naturally, we also have many intermediate storage tanks for semi-finished products or customer products.



The area occupied by warehousing and handling amounts to approximately $2,000 \text{ m}^2$, a large part of which uses a pallet-rack system (approximately 1,000 pallets).

For some customers, we also look after their logistics. I.e. we have a direct link to our customers' computer systems and use this to handle incoming and outgoing goods. As and when required, deliveries are inspected and approved in our laboratory. As almost every customer works with a different software application, our staff are used to working with different systems.

The orders concerned (the orders placed with our customers) are collected in our offices and printed out. This order is put together by our staff within the agreed time (sometimes within 24 hours) and prepared for dispatch.

The road haulage companies concerned are informed or collect the goods from us on a regular schedule. This additional service results in tremendous savings where transport, warehousing and handling are concerned.

Final remarks

All of the above-mentioned possibilities allow us to offer each customer an individually tailored package. All of these possibilities can be fitted together on a modular basis to meet customers' specific requirements. The system can also be changed and modified in the shortest possible time with maximum benefits for the customers.

Fritz Keller AG, 14 April 2002, André Keller