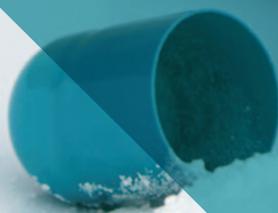




## Pharmaceuticals

[www.molintechnologies.com](http://www.molintechnologies.com)



# Pharmaceutical equipment...

Molins Technologies has a wealth of experience in the design and development of clinical and production machinery for pharmaceutical products and packaging. With over 15 years' experience delivering special purpose machinery, pre-designed equipment, technical consultancy and service solutions to multi-national pharmaceutical customers, we understand the requirements necessary for customers to get their products to market.

Our expertise lies in the ability to define, design and develop the right technology to meet a customer's individual needs. This enables us to provide machinery solutions with ground-breaking performance, leading to a transformation on the factory floor, and the means for customers to differentiate from their competition.

We have extensive experience delivering automated solutions for the handling, filling and packaging of pharmaceutical powders, tablets and liquids for a range of applications.

## Product Experience

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- › **Diagnostic devices**
- › **Dry powder inhalers**
- › **Metered dose inhalers**
- › **Blisters**
- › **Tablets**
- › **Sachets, wraps**

## Technology Expertise

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- › **Filling technologies (volumetric, gravimetric, compaction, drum, dosator)**
- › **Advanced web handling, tension control and tracking systems**
- › **Complex web forming, filling and sealing**
- › **Precision lamination, cutting, welding, gluing**
- › **Printing (ink jet, pad, thermal transfer)**
- › **Vision inspection**
- › **Check weighing**



## Global support

Molins Technologies provides development support for new drug delivery platforms and we deliver solutions worldwide across the entire product lifecycle, from clinical trials to mass-production and next generation equipment. Experienced in GMP and GAMP 5 requirements, we deliver fully-validated machines that provide our customers with breakthrough performance improvements that help bring products to the consumer more efficiently.

## Excellence in dosing and filling

The application of dosing and filling technologies is a core strength at Molins Technologies. Understanding a products' characteristics is key to designing the most appropriate and versatile system for the manufacturing environment.

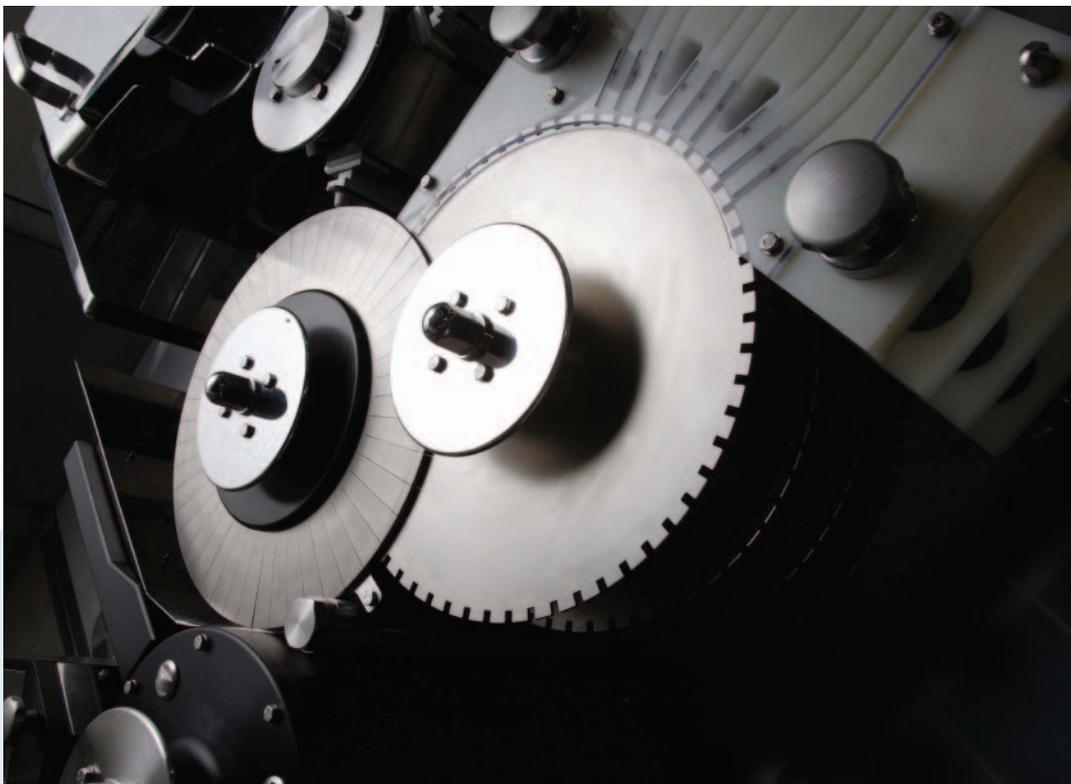
We understand the need to handle compounds carefully in order to maintain product integrity throughout the production process. We have worked extensively with both cohesive and free flowing powders, active blends that are prone to segregation as well as liquids, gels and suspensions for applications from inhalers to analgesics.

We are familiar with the challenges different product types present and are experienced in delivering dosing and filling equipment to ensure a product reaches the consumer in optimum condition.

## Automated handling and processing

Molins Technologies has expertise in a wide range of tablet handling and processing technologies. Our skills lie in the ability to control and manipulate individual tablets at high speeds, at the same time safeguarding against damage.

Our experience includes innovative processing of tablets including assembly of multiple component drug forms, low impact coating, printing and vision systems for inspection of tablets and blisters.



## Pre-designed solutions

In addition to providing special purpose solutions, Molins Technologies offers customisable solutions that capitalise on our expertise in powder micro-dosing.

### **μ-fill**

The μ-fill powder micro-dosing module is a flexible filling solution for the accurate filling of blisters. The module integrates with Molins Technologies blister forming and sealing equipment for precision filling at a range of dose weights from 5 to 20mg and speeds suitable for lab scale, early stage clinical development through to full production. As well as blisters, the system can be tailored to fill capsules, cartridges or rigid containers for similar requirements.

We understand the importance of dose accuracy and the need to ensure repeatability of batches in production of pharmaceutical products. To complement our micro-dosing equipment Molins Technologies offer a high-speed checkweigher to independently provide offline confirmation of dose weight accuracy.

### **μ-check**

The μ-check powder dose check weighing system measures individual doses of powder taken from sealed blisters. Reliable, fast, controlled and repeatable, μ-check is an invaluable aid to support filling lines during dosing system development, clinical trials and production. The machine has been designed to handle both blisters in strip format or disks.







# **MOLINS** TECHNOLOGIES

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