



## **μ-fill labscale**

Powder dosing  
technology

[www.molins technologies.com](http://www.molins technologies.com)



## Accurate powder micro-dosing into blisters

$\mu$ -fill lab scale is an easy to use semi-automated benchtop instrument for the accurate filling of pharmaceutical powders into preformed blisters typically used in dry powder inhaler devices (DPIs).

$\mu$ -fill lab scale provides a cost effective method of dosing pharmaceutical powders into blister strips, capsules or other receptacles. This semi-automated benchtop solution is designed to deliver repeatable, consistent doses during R&D or pre-clinical stage product development activities.

The unique design provides a flexible and scalable solution for filling at a range of dose weights (5 to 20 mg), and a variety of powder cohesivities. The filling technology is offered across a suite of equipment ( $\mu$ -fill 240,  $\mu$ -fill 3000) to cover a range of production speeds. All machine variants process powder in an identical manner ensuring process continuity as development moves through R&D, clinical-stage approval and into full production.

### Benefits

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- **Consistent dosing process throughout drug development cycle**
- **Quick product changeover**
- **Easy change tooling for alternative formats**
- **Designed to enable rapid clean down**
- **Operator adjustable dosing parameters**

### Applications

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- **Technology accommodates wide variation of powder properties**
- **Laboratory or cleanroom**
- **Early phase product development**



## Easy to use

The preformed foil blister strip and powder are hand loaded into the machine by the operator, the operator initiates a dosing cycle,  $\mu$ -fill lab scale automatically meters a single volumetric dose of dry powder into the dosing drum for manual ejection into the blister strip.

The dosing cycle process is repeated by the operator until each of the required blister strip pockets are filled. Blister strips are formed and sealed on a separate blister unit.

# Technical specification

Cycle time	Semi-automatic operation. Typical cycle time <45s / dose
Blister formats*	Single row 14 dose strip Blister dimensions nominally 7mm x 4 mm, 7.35 mm pitch
Dose weight volume*	5-20 mg dependent on powder properties Can be customised for other applications
Power requirements	85-264 VAC, 50/60 Hz Single Phase
Dimensions	640 H x 550 W x 660 D mm 106 kg (approx)
Standards**	CE Conformity / UL

## Standard machine package includes:

- › **Instruction manual**
- › **Powder recovery tray**
- › **Blister carrier**

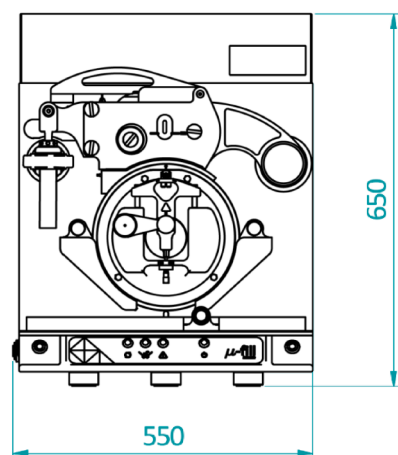
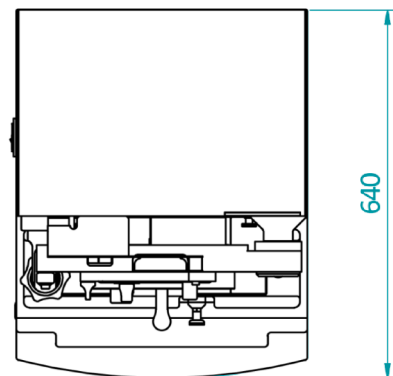
## Options and accessories

- › **Drum and pin set**  
For alternative dose volume ranges
- › **Blister unit**  
For blister forming and sealing operations
- › **Drum seal**  
Spare part

\*Specials outside of this specification are possible.

\*\*Specify when enquiring.

Molins Technologies reserves the right to change or modify the details and specifications shown without notice.



Contact us for further information, to arrange a system demonstration or to obtain a quotation.

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