



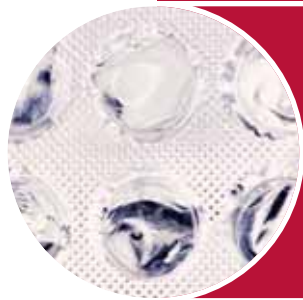
# PRODUCT RECOVERY

*A comprehensive range of pop-out deblistering machines that offer speed, efficiency and safety in the recovery of valuable product*

**Our comprehensive PRESS-OUT range of deblistering machines enables the safe recovery of valuable product from all types of rejected blister packs.**

Over 15 million hours of reliable, fast, hygienic and cost-saving operations worldwide are achieved from our deblistering solutions. That is why the top pharmaceutical companies choose SEPHA Press-Out.

All models in the Press-Out range allow rapid changeover and minimum downtime with maximum hygiene and efficiency. Using minimal pressure to extract tablets and capsules ensures that foil pieces do not detach from the blisters and prevents product damage during the deblistering process. SEPHA has products suitable for push-thru blisters as well as child resistant or peelable blisters.



## PRODUCT RECOVERY

“ Our philosophy is to develop equipment that is simple for non-skilled users; equipment that saves time and money; and equipment that solves problems, not creates them. ”

### Why recover product from blister packs?

Blister packs are rejected because of: empty pockets; incorrect product; incorrect batch coding; leak test failure; and inventory changes. The recovered product can immediately be repackaged increasing production yields.

### Reduce waste disposal costs

It is generally less expensive to dispose of empty blisters than filled ones, so it makes sense to separate active product from waste packaging before disposal.

### Environmental Policy

Deblistering can help to meet legislative requirements whilst minimising the impact of manufacturing processes on the environment.

### Inventory Management

Manage fluctuating market demands and organise inventory efficiently by emptying existing blister stocks and repacking products into alternative formats.

### Increase staff motivation

Emptying blisters by hand is tedious and repetitive. Mechanical deblistering prevents sore or cut fingers, and reduces the risk of RSI or Carpal Tunnel Syndrome.

For more information on the benefits of deblistering visit [www.sepha.com](http://www.sepha.com)



# SEPHA PRESSOUT

## MANUAL MANUAL WIDE SEMI-AUTOMATIC

Portable manual and semi-automatic deblistering machines for recovering tablets and capsules from push-thru blisters with in-line layout. Manual Wide and Semi-Automatic models also handle diagonal / offset layouts.

### FEATURES

- Portable
- No air supplies needed
- Non-slip safety pads
- Fully cGMP and easily cleaned
- Single change part
- Handles PVC/alu as well as alu/alu blisters
- Flexible - can be adjusted quickly to suit any push-thru blister pack
- Easy to use - no specialist skills needed
- Product recovered cleanly and hygienically
- Ideal for small batches
- Affordable

▼ PRESSOUT  
MANUAL



▼ PRESSOUT  
MANUAL WIDE



▼ PRESSOUT  
SEMI-AUTOMATIC





# PRESS OUT

## MANUAL, MANUAL WIDE + SEMI-AUTOMATIC



### TOOLING

The single set of tooling is fully adjustable. A simple settings scale is printed on the platen plate for fast set-up within 1-2 minutes. Training takes less than 15 minutes.

### PRESS OUT MANUAL / MANUAL WIDE

#### MACHINE OPERATION

Blister packs are manually fed through a set of rollers by turning a handle. The tablets or capsules are simultaneously removed from the blister pack and separated from the waste packaging.

**MANUAL MODEL** - In-line layout blister packs only

**MANUAL WIDE MODEL** - Handles blister packs with Diagonal / Offset layout as well as the more traditional 'In-line' design.

### PRESS OUT SEMI-AUTOMATIC

#### MACHINE OPERATION

Single blister packs are automatically fed through a set of rollers. The tablets or capsules are simultaneously removed from the blister pack and separated from the waste packaging. This machine uses the same patented deblistering mechanism as the Press-Out Manual Wide, but is driven by an electrical motor which runs continuously, providing an automated feed which increases the deblistering rate to 40 blisters per minute.

### TECHNICAL SPECIFICATION

|                           | MANUAL  | MANUAL WIDE                              | SEMI-AUTOMATIC                                 |
|---------------------------|---|--|--|
| <b>OPERATION</b>          | Manual  | Manual                                   | Semi-Automatic                                 |
| <b>BLISTER TYPE</b>       | Push-thru   | Push-thru                                | Push-thru                                      |
| <b>BLISTER LAYOUT</b>     | In-line   | In-line and Diagonal / Offset            | In-line and Diagonal / Offset                  |
| <b>FORMAT DIMENSIONS</b>  | Width<br>120mm (4.7")<br>Length<br>Unlimited  | 170mm (6.7")<br>Unlimited                | 170mm (6.7")<br>Unlimited                      |
| <b>CONSTRUCTION</b>       | All product contact areas constructed from Stainless Steel (Grade 316) and ABS Food Grade |  |  |
| <b>POWER SUPPLIES</b>     | None required   | None required                            | Electricity: Single Phase 110/230V             |
| <b>OPERATING SPEED</b>    | Up to 20 blisters per minute  | Up to 20 blisters per minute             | Up to 40 blisters per minute                   |
| <b>MACHINE DIMENSIONS</b> | Width<br>200mm (8")<br>Length<br>300mm (12")<br>Height<br>200mm (8")                      | 380mm (15")<br>295mm (12")<br>230mm (9") | 365mm (14.4")<br>340mm (13.4")<br>250mm (9.8") |
| <b>MACHINE WEIGHT</b>     | 6.5kg (15lbs)   | 8kg (18lbs)                              | 16kg (35lbs)                                   |
| <b>SHIPPING WEIGHT</b>    | 8.5kg (19lbs)   | 11.5kg (25lbs)                           | 28kg (61lbs)                                   |
| <b>TOOLING CHANGEOVER</b> | 3 minutes   | 3 minutes                                | 3 minutes                                      |



# SEPHA PRESSOUT AUTOMATIC

Deblistering machine for recovering tablets and capsules from push-thru and multi-product blisters with in-line and diagonal / offset layouts.

## FEATURES

- Automatic feed
- Easy to use with no specialist skills required
- User interface with fault indicators
- Variable speed up to 120 blisters per minute
- Handles PVC/alu as well as alu/alu blisters
- No air supplies needed
- Low-cost tooling, fast turnaround
- Fully cGMP
- Easy cleaning - water and dust repellency level to IP54 rating

▼ PRESSOUT  
AUTOMATIC



## SAFETY

- Guarding is designed and constructed to BS954 (Category 3) standards
- Machine is controlled by a low voltage (24V) certified control system

## LOW MAINTENANCE

- A cam-driven mechanical drive system minimises wear on parts and reduces maintenance requirements
- Removable machine housing and hinged rear panel give easy access for maintenance of mechanical drives, motor and electrical components
- The machine's logic controller centrally operates all aspects of machine function, allowing control parameters to be easily changed if required



# PRESS OUT AUTOMATIC



## MACHINE OPERATION

The speed of the machine operation can be varied to a maximum of 120 blisters per minute.

1. Blister packs are fed automatically from the magazine stack through a set of rollers.
2. The tablets or capsules are gently eased out of the blister and are collected separately from the waste packaging.
3. A status panel on the user interface allows operators to quickly and easily identify the location of any faults during machine operation.

## TOOLING

Custom tooling is required for each different blister pack size. Format changeover, which does not require tools, is fast and easy.

## TECHNICAL SPECIFICATION

|                           |   |              |
|---------------------------|---|--------------|
| <b>OPERATION</b>          | Automatic   |              |
| <b>BLISTER TYPE</b>       | Push-thru and Multi-product   |              |
| <b>BLISTER LAYOUT</b>     | In-line and Diagonal / Offset   |              |
| <b>FORMAT DIMENSIONS</b>  | Width   | 160mm (6.3") |
|                           | Length  | 160mm (6.3") |
| <b>CONSTRUCTION</b>       | All product contact areas constructed from Stainless Steel (Grade 316) and ABS Food Grade |              |
| <b>POWER SUPPLIES</b>     | Electricity: Single Phase 110/230V  |              |
| <b>OPERATING SPEED</b>    | Up to 120 blisters per minute   |              |
| <b>MACHINE DIMENSIONS</b> | Width   | 615mm (24")  |
|                           | Length  | 560mm (22")  |
|                           | Height  | 1248mm (49") |
| <b>MACHINE WEIGHT</b>     | 65kg (143lbs)   |              |
| <b>SHIPPING WEIGHT</b>    | 120kg (264lbs)  |              |
| <b>TOOLING CHANGEOVER</b> | 3 minutes   |              |

State-of-the-art  
deblistering solution  
for the pharmaceutical  
industry with unrivalled  
recovery rates,  
flexibility and speed



PRODUCT  
RECOVERY

# SEPHA PRESS OUT

## MINI UNIVERSAL UNIVERSAL

Ideal for valuable product with a unique gentle action for fragile tablets and capsules. Suitable for all blister materials including heavy gauge alu/alu and paper-backed materials.

### FEATURES

- Variable speed control
- Fully cGMP
- Open construction - total access for easy and fast cleaning
- Maintenance-free
- Tool-less changeover
- Jam-free operation

▼ PRESS OUT  
MINI UNIVERSAL



▼ PRESS OUT  
UNIVERSAL





# PRESS OUT

## MINI UNIVERSAL + UNIVERSAL

### PRESS OUT MINI UNIVERSAL

A highly flexible and compact, semi-automatic solution for emptying small batches of blister packs of all types including child resistant.

### MACHINE OPERATION

Blister packs are placed manually into the pack holder. The pack holder is pushed in and a partial cut is made in the lidding foil around each blister pocket. The contents of the blisters are then emptied gently and separated from the waste packaging.

### TOOLING

Only 2 single custom plates are needed for each different blister pack format. Changeover is completely tool-less and takes less than 1 minute.

### PRESS OUT UNIVERSAL

The state-of-the-art deblistering solution for the pharmaceutical industry because of its flexibility, speed and unrivalled recovery rates.

### MACHINE OPERATION

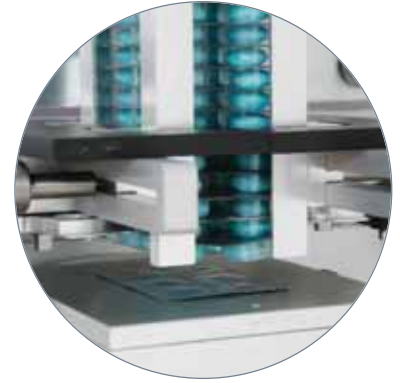
Blister packs are fed automatically from the magazine stack to a cutting station. A cut is made in the lidding material around the base of the blister pocket. The tablets or capsules are gently eased out of the blisters and collected separately from the waste packaging.

### TOOLING

Custom tooling is supplied for each different pack size with fast delivery times.

### TECHNICAL SPECIFICATION

|                           | MINI UNIVERSAL  | UNIVERSAL                                     |
|---------------------------|---|---|
| <b>OPERATION</b>          | Semi-Automatic  | Automatic                                     |
| <b>BLISTER TYPE</b>       | Push-thru and Child-resistant / Peelable / Multi-product                                  |   |
| <b>BLISTER LAYOUT</b>     | All   | All   |
| <b>FORMAT DIMENSIONS</b>  | Width 160mm (6.3")<br>Length 140mm (5.5")   | 160mm (6.3")<br>140mm (5.5")                  |
| <b>CONSTRUCTION</b>       | All product contact areas constructed from Stainless Steel (Grade 316) and ABS Food Grade |   |
| <b>POWER SUPPLIES</b>     | Electricity: Single Phase 110/230V<br>Air Supply: 6 Bar                                   |   |
| <b>OPERATING SPEED</b>    | Up to 20 blisters per minute  | Up to 50 blisters per minute                  |
| <b>MACHINE DIMENSIONS</b> | Width 620mm (24")<br>Length 620mm (24")<br>Height 1325mm (52")                            | 650mm (25.5")<br>1200mm (47")<br>1300mm (51") |
| <b>MACHINE WEIGHT</b>     | 80kg (176lbs)   | 270kg (594lbs)                                |
| <b>SHIPPING WEIGHT</b>    | 150kg (330lbs)  | 350kg (770lbs)                                |
| <b>TOOLING CHANGEOVER</b> | 1 minutes   | 5 minutes                                     |



The user-friendly Universal model is also ideally suited for singularising Hospital Unit Dose blisters



# WHICH PRESS-OUT?

## QUICK REFERENCE TABLE

**BLISTER PACK TYPE**

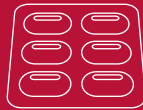
(Perforated and Unperforated)

**PUSH-THRU**

PVC/Alu  
PVDC/Alu  
PP/Alu  
ACLAR/Alu



Alu/Alu



**CHILD-RESISTANT**

Push-Thru



Peelable



**DIAGONAL /  
OFFSET**



**MULTI-PRODUCT**

In-line



Staggered



**CIRCULAR**



|                      | PRESS-OUT<br>MANUAL | PRESS-OUT<br>MANUAL<br>WIDE | PRESS-OUT<br>SEMI-<br>AUTOMATIC | PRESS-OUT<br>AUTOMATIC | PRESS-OUT<br>UNIVERSAL<br>MINI | PRESS-OUT<br>UNIVERSAL |
|----------------------|---------------------|-----------------------------|---------------------------------|------------------------|--------------------------------|------------------------|
| PUSH-THRU            | ✓                   | ✓                           | ✓                               | ✓                      | ✓                              | ✓                      |
| PVC/Alu              | ✓                   | ✓                           | ✓                               | ✓                      | ✓                              | ✓                      |
| PVDC/Alu             | ✓                   | ✓                           | ✓                               | ✓                      | ✓                              | ✓                      |
| PP/Alu               | ✓                   | ✓                           | ✓                               | ✓                      | ✓                              | ✓                      |
| ACLAR/Alu            | ✓                   | ✓                           | ✓                               | ✓                      | ✓                              | ✓                      |
| Alu/Alu              | ✓                   | ✓                           | ✓                               | ✓                      | ✓                              | ✓                      |
| CHILD-RESISTANT      |                     |                             |                                 |                        |                                |                        |
| Push-Thru            | ✓                   | ✓                           | ✓                               | ✓                      | ✓                              | ✓                      |
| Peelable             | -                   | -                           | -                               | -                      | ✓                              | ✓                      |
| DIAGONAL /<br>OFFSET | -                   | ✓                           | ✓                               | ✓                      | ✓                              | ✓                      |
| MULTI-PRODUCT        |                     |                             |                                 |                        |                                |                        |
| In-line              | ✓                   | ✓                           | ✓                               | ✓                      | ✓                              | ✓                      |
| Staggered            | -                   | -                           | -                               | -                      | ✓                              | ✓                      |
| CIRCULAR             | -                   | -                           | -                               | -                      | ✓                              | ✓                      |

