Designed for high volume users, the ABP series of machines are some of the most advanced models in the Ridat range of blister packaging equipment. Its modular format facilitates the use of the conveyor sections as a standalone fully automated blister sealing system.

Ridat’s ABP series will:

i) Automatically feed the foil material from reel stock
ii) Form and separate the blisters
iii) Transfer the blisters to sealing jigs
iv) Place backing cards (or foil) on the blister
v) Heat seal the pack and
vi) Transfer the completed pack from end of line

High speed production
The following processes ensure a consistent fast rate of production of up to 25 cycles per minute. Contact heating is used to give the rapid, precise heating of the plastic for high speed forming. Accurate temperature control of the heating platens is maintained by PLC with feedback from thermocouples. The machines use the unique Ridat twin heat sealing presses in tandem so that high speed, low pressure card sealing can be employed.

Material waste minimised
Side clamping of blister flange is used to avoid edge trim waste. The minimum flange on the material edges of outer blister is 10 mm.

Synchronised operation
The synchronisation of each stage is automatic. Timing sequences are set up in a PLC so that all machine functions can be precisely adjusted. The conveyor is driven from a single motor and with cycle on demand.

Reliability
High quality components are used throughout. Where necessary, air cylinder movements are supported by robust guide rods, and typically the conveyor jigs are carried on heavy duty chains.

THE NEXT GENERATION
Versatility
ABP machines can be adapted to meet a wide range of requirements. Different sizes and shapes of blister can be formed and alternative card sizes may be used.

Straightforward tooling
Standard tooling consists of female pressure forming moulds using plug assistance where necessary. Inexpensive, quick release wooden sealing jigs are mounted on trays on the conveyor. The trays are supported from below during the sealing process.

Other machine options
All Ridat blister packaging systems are available in varying configurations to suit the product to be packed and the space available. In addition, the blister forming section can be supplied as an independent unit for manufacturing and stacking blisters. Similarly, the sealing conveyor can also be used as an independent unit in which blisters can be loaded either manually or automatically. These independent machines retain the automatic functions of fully automatic systems.

Automatic blister and card sensing
Sensors check that blisters and cards are in position in the jigs. If there is no blister, the card will not be withdrawn from the card hopper. If no card is present, the sealing presses will not operate: this prevents the possibility of the blisters getting stuck to the underside of the sealing press.

Safety features
Fixed side and rear guards complete the arrangement with the whole system conforming to the latest harmonised standards relating to the Machinery Directive, Low Voltage Directive and Electromagnetic Compatibility Directive. All machines are CE marked in accordance with current European legislation.

Typical applications include: Blister Packaging of: DIY products, automotive accessories, stationery, toys, cosmetics, razors and batteries.

**Brief Technical Specifications**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>1004ABP</th>
<th>1607ABP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forming Section (max dimensions)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blister (length x width) in mm</td>
<td>10 x 4 254 x 102</td>
<td>16 x 7 406 x 178</td>
</tr>
<tr>
<td>Blister Depth in mm</td>
<td>3 76</td>
<td>4 102</td>
</tr>
<tr>
<td>Conveyor Section (max dimensions)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Card (length x width) in mm</td>
<td>14 x 5 356 x 127</td>
<td>18 x 7 457 x 178</td>
</tr>
<tr>
<td>Power Usage kW</td>
<td>8.8</td>
<td>15.0</td>
</tr>
<tr>
<td>Air Usage litre/cycle</td>
<td>85</td>
<td>226</td>
</tr>
<tr>
<td>Floor Area ft cm</td>
<td>12 x 4 457 x 122</td>
<td>26 x 5 793 x 152</td>
</tr>
</tbody>
</table>

The above figures should be taken as typical example only. Complete specifications supplied on request.