Ridat Semi Automatic (SA) range of vacuum forming machines is designed for general trade moulding (and blister forming) and is ideally suited for production with consistent and repeating formings.

The basic process involves heating a plastic sheet to requisite temperature to make it malleable. A mould is then raised to the film and finally a vacuum is applied to draw the heated plastic material around the mould to assume its shape.

Process – the complete processing cycle (i.e. heat, bubble, table movement, vacuum, eject) is fully automatic and controlled by the microprocessor on the basis of timers set using a user friendly HMI operator pad.

Cycle times – many factors influence cycle time – type, colour and thickness of material; shape of mould; operator skill and experience. Provision needs to be made for the operator functions including placement and removal of material.

Safety - Ridat machines are produced to high safety standards and conform 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.

Features

For all sizes:

- Wide material range – PVC, HIPS, PP, Polycarbonate, PET, ABS and of up to 4mm thick can be formed
- HMI Operator control pad for ease of operation
- Ceramic heaters with zone control for balanced heat components
- Optionally, plug assistance (male mould) can be fitted
- Sealed vacuum chamber for pre-stretch and greater material control
- Vacuum reservoir and rotary vacuum pump for instant availability of vacuum

Typical applications include:

- Blisters and clam shells
- Transit trays
- Toys & Cosmetic tray inserts
- General vacuum formed
- Door skin panels & roof domes
- Display merchandise & POS stand
- Formings for medical applications
- Sampling
The **3020SA** is the most popular of the SA models amongst the smallest models in the Ridat range. They are ideal for small to medium scale production, checking moulds, testing forming techniques, and laboratory work. Schools and colleges have also found them very useful for art and craft classes.

**Ridat** also manufactures a heavy duty version with Sandwich Heating – known as **AVF Series**. These are ideal of Industrial forming and are available in size ranging from 1m x 1m to 3m x 2m. And capable of handling sheets of up to 12mm in thickness.

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### Brief Technical Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>2420SA</th>
<th>3020SA</th>
<th>3624SA</th>
<th>4030SA</th>
<th>4848SA</th>
<th>5426SA</th>
<th>6040SA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forming (max)</td>
<td>in mm</td>
<td>24 x 20</td>
<td>30 x 20</td>
<td>36 x 24</td>
<td>40 x 30</td>
<td>48 x 48</td>
<td>54 x 26</td>
</tr>
<tr>
<td>Depth</td>
<td>mm</td>
<td>200</td>
<td>200</td>
<td>300</td>
<td>300</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td>Power Usage</td>
<td>kw</td>
<td>6.0</td>
<td>8.6</td>
<td>13.1</td>
<td>16.7</td>
<td>17.3</td>
<td>16.9</td>
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<tr>
<td>Air Usage</td>
<td>litres/cycle</td>
<td>5.3</td>
<td>5.3</td>
<td>6.5</td>
<td>6.8</td>
<td>6.8</td>
<td>6.6</td>
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<tr>
<td>Floor Area</td>
<td>cm</td>
<td>178 x 145</td>
<td>178 x 145</td>
<td>230 x 160</td>
<td>230 x 160</td>
<td>322 x 180</td>
<td>211 x 196</td>
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<tr>
<td>Height</td>
<td>cm</td>
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<td>242</td>
<td>249</td>
<td>249</td>
<td>249</td>
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<tr>
<td>Weight</td>
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<td>392</td>
<td>450</td>
<td>450</td>
<td>580</td>
<td>540</td>
</tr>
</tbody>
</table>

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