Automatic Operation
Material is reel fed into a 3-stage heating station and formed. The formed sheets are then trimmed and stacked.

Accurate Indexing
Material transport uses a spiky chain system powered by servo drive for indexing accuracy.

Reliability & Durability
Robustly constructed, the AFCS series of Automatic Form Cut & Stack Machines are durable and provide reliable production in the toughest environments.

Easy Control
User-friendly HMI operator interface panel is fitted to provide for easy setup prior to automatic running. The adjustable settings include: heating temperature, index length and speed and timing of other processing variables. After initial setup, the machine operation is automatic and continuous. Settings can easily be stored for subsequent use.

Safety
Ridat thermoforming 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.

Ridat’s AFCS series of Automatic Form Cut & Stack Machines, (both vacuum forming and pressure forming versions) is ideally suited for inexpensive production coupled with flexible operation, high quality output and precision finishing.
Heating
Using both upper and lower ceramic heaters ensures balanced temperature distribution to minimise material stress. The dual ceramic heaters also enable a wide variety of materials (such as PVC, PS, APET, GPET, HDPE) to be used in the machines. Temperature is monitored by PID software and can be controlled using the HMI panel.

Forming
Each thermoforming machine in the AFCS series is fitted with a high capacity reservoir and a vacuum pump to create an instant vacuum, regardless of the production rate or material used. After forming, the heated material is cooled by an air-jet.

AFCS-P series is the pressure forming version of the AFCS range of thermoforming machines – designed for high speed operation and improved forming definition.

Forming uses compressed air (up to 2.5 bars or 40 psi). The mould is water cooled to prevent overheating and may be fitted with a plug to assist material distribution.

Precision Cutting
A servo driven steel-rule punch press, with a punching pressure of 60mt, is fitted as standard. The upper platen provides adjustable height settings to allow varying tool heights. The complete assembly can be moved along the length of the machine by motor for precise positioning.

A piercing station - similar to the punch press but with a lower punching pressure (20mt) - can be fitted for piercing holes or Euro-slots.

Stacking
The fully integrated stacking station receives the trimmed products and, after a pre-determined amount is collected, the finalised products are pushed out.

Skeletal Rewind
Rewind facility to collect the skeletal waste is provided as standard.

Typical applications include: chocolate box inserts, display packaging, collating & transit trays, fruit punnets, trays and lids as well as point of sale display.

Brief Technical Specifications

<table>
<thead>
<tr>
<th>MODEL</th>
<th>2416AFCS</th>
<th>2420AFCS</th>
<th>3024AFCS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forming</td>
<td>inch (mm)</td>
<td>24 x 16</td>
<td>24 x 20</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(600 x 400)</td>
<td>(600 x 500)</td>
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<tr>
<td>Depth</td>
<td>inch (mm)</td>
<td>4 (100)</td>
<td>4 (100)</td>
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<tr>
<td>Cutting Press</td>
<td>mt</td>
<td>60</td>
<td>60</td>
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<tr>
<td>Power Usage</td>
<td>kW</td>
<td>36</td>
<td>44</td>
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<tr>
<td>Air Usage</td>
<td>cft</td>
<td>2.8</td>
<td>2.8</td>
</tr>
</tbody>
</table>

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