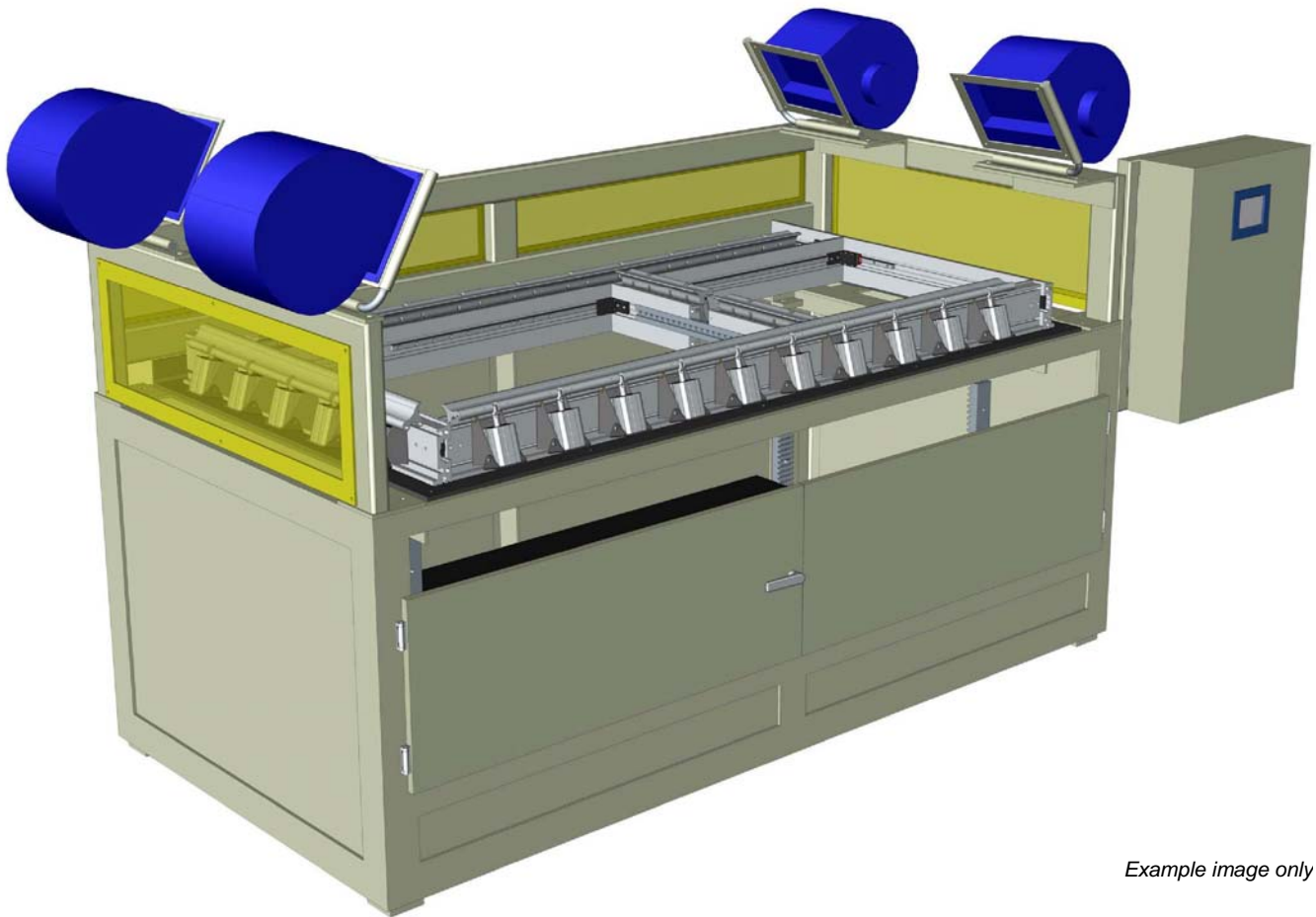




**ARMOUR**

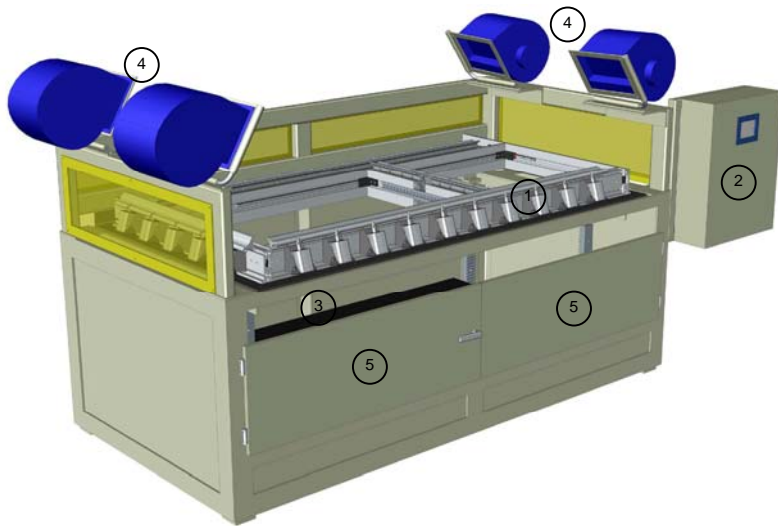
*~ engineering for plastics*

**UV-23-06  
UNIVERSAL VACUUM FORMER**



*Example image only*

The UV-23 Series Universal Vacuum Forming Machine provides a flexible manufacturing solution for the sanitary ware industry. High quality engineering of mould table and clamping systems ensure swift tool change. With PLC program control and user friendly interfaces the machine is very easily integrated into the production environment. This machine must be used in conjunction with a separate sheet heating oven. Please see the relevant Armour specification sheets for details.



1. Clamping frame
2. Control panel
3. Draw board aperture
4. Cooling fans
5. Mould installation doors

The operator lays the hot plastic sheet from the separately supplied oven onto the clamping frame (1) and it is prevented from sagging by the draw board (not shown). When the Operator presses the two-hand start buttons on the control panel (2) the clamping frame activates and clamps the plastic sheet. The Operator presses the buttons again and the mould moves down to allow the draw board to be removed through the aperture on the front of the machine (3). On pressing the buttons again, the mould moves up into the plastic sheet (at this point a "bubble" can be blown in the sheet via the mould vacuum system if required), the vacuum is then automatically switched on, the product moulds and then the cooling fans (4) turn on to cool the product. When the cooling is completed an alarm buzzer sounds to alert the operator to release the product by again pressing the two-hand start buttons.

## MACHINE SPECIFICATION

ELEMENT	SPECIFICATION																
Machine Capabilities	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Maximum product size:</td> <td style="text-align: right;">2000 x 2000mm</td> </tr> <tr> <td>Maximum forming aperture:</td> <td style="text-align: right;">2014 x 2014mm</td> </tr> <tr> <td>Minimum forming aperture:</td> <td style="text-align: right;">711 x 500mm</td> </tr> <tr> <td>Maximum tool height:</td> <td style="text-align: right;">600mm</td> </tr> <tr> <td>Maximum tool push through:</td> <td style="text-align: right;">250mm</td> </tr> <tr> <td>Maximum sheet thickness:</td> <td style="text-align: right;">8mm</td> </tr> <tr> <td>Cycles per hour (4mm cast acrylic):</td> <td style="text-align: right;">12 cycles</td> </tr> <tr> <td>Output (aluminium mould &amp; 4mm cast acrylic):</td> <td style="text-align: right;">12 products per hour</td> </tr> </table>	Maximum product size:	2000 x 2000mm	Maximum forming aperture:	2014 x 2014mm	Minimum forming aperture:	711 x 500mm	Maximum tool height:	600mm	Maximum tool push through:	250mm	Maximum sheet thickness:	8mm	Cycles per hour (4mm cast acrylic):	12 cycles	Output (aluminium mould & 4mm cast acrylic):	12 products per hour
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Product cooling	By cooling fans with directional adjustment Number of fans: 4 or 6 dependent on spec Fan motor rating: 150W Fan flow rate: 425m <sup>3</sup> /hr
Mould Heating Facility	Power rating (when supplied): 9kW On/Off timer from control system Cold water supply required
Control System	PLC controlled sequence. Touch screen user interface. Two-hand start for safe operation. Programmable sequence parameters.
Compressed Air	Minimum pressure: 5.5 Bar Dry filtered supply
Electricity	3 Phase supply + Neutral + Earth: 380/415V @ 50Hz Maximum power consumption: 16kW
<i>example specification only - specification may be subject to change without notice</i>	

*For further information contact*

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