

5/05 Vario Vacuum Casting System

Product Description

The 5/05 Vario Vacuum Casting System is designed for the manufacture of high quality, complex plastic castings quickly and cost effectively. The Vacuum Casting Process is ideal for low volume production of plastic components, design verification and engineering prototypes.

The process involves utilising a 2 part silicone rubber mould to manufacture multiple exact replicas of the original pattern or model. The vacuum casting technique enables a variety of materials to be used from soft rubber up to rigid water clear resins for automotive lenses.

The 5/05Vario Vacuum Casting System consists of a large main chamber with a separate pre-degassing chamber for the pre preparation of vacuum casting resins. The machine is mounted on 4 lockable wheels located at each corner of the machine. The inside of the machine is accessed through 2 doors. The top door allows access to the upper chamber containing the robot system for loading of resin cups. The bottom door allows access to the moulding area for loading and unloading of silicone rubber tools. Both doors have large glass windows for easy viewing of the vacuum casting process.

The side door of the machine opens to enable the use of an extension chamber. Extension chambers for the machine are made to order after agreeing the dimensional specification with the customer.

A Vario Plate separates the top and bottom of the machine to facilitate the use of differential vacuum during the vacuum casting process.

The PLC on the 5/05Vario enables the user to run in manual mode or save the actions carried out in manual to an automatic programme as a job number. Notes can be input such as type of resin, shot size, colour to be used. Especially useful is the auto calculation function. Input resin SG95 (or any other) . Input the total shot size. The PLC will flag up the ratio of SG95 Resin A to SG95 Resin B, taking possibility of human error away. 25 programmes can be stored in this way with the option to download and upload others as required.

The process can be viewed by the operator via CCTV inside the chamber. This allows the operator to view progress of the moulding process from a central position.

For mould and casting capacities see Machine Specification.

Machine Specification

5/05Vario Vacuum Casting Machine

	Metric	Imperial
Machine Dimensions		
External (HxWxD)	2320 × 2800 × 1350 mm	91 × 110 × 53 inches
Machine Weight	2600 kgs	5732 lbs
Chamber Size		
Max mould size (HxWxD)	1050 × 2050 × 1000 mm	41 × 80 × 39 inches
Casting Capacity	2.2 and 5.5 litre	0.58 and 1.45 gallons(USA)
Pre-Degassing Chamber		
Size (HxWxD)	600 × 1000 × 640 mm	23 × 39 × 25 inches
Power Supply		
Europe	3 phase 400V 3NPE, 50Hz, 5.0 KW	
Other countries	Other power configurations readily available	
Vacuum System		
Pump capacity	1 x 100m ³ / hour	2 x 3530ft ³ / hour
Ultimate vacuum	0.5 mbar	0.0072 psi