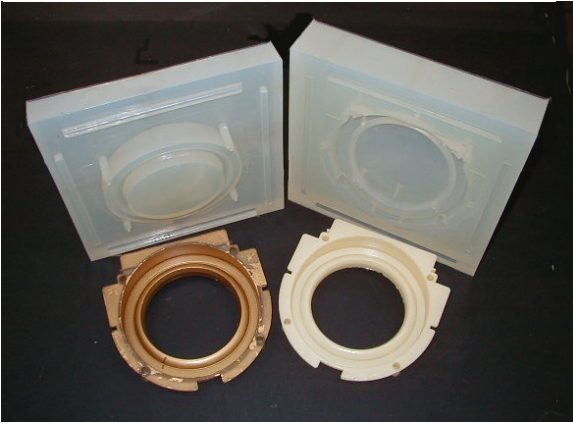


# CM2000 Vacuum Casting System

Cybron

## RTV Soft Tooling Unit



### General Description

The *CM2000* is a reinforced steel chamber in which **high-definition models** can be cast in vacuum environment in matter of hours. Bubble-free resins and hardeners can be remotely mixed and poured in the air-evacuated chamber.

The controlled conditions of this prototype modeler make soft moulding of small and large parts which otherwise will not be practical in open air. Air tends to get trapped in the crevasses of the mould. The evacuated chamber and the evacuated soft mould offer little resistance to the flow of resins to the remotest portions of the mould. The transparent mould allows visual checks and, if necessary, to intervene by 'bleeding' air to coax resins into stubborn or intricate portions of the mould.

Cybron's vacuum casting system embraces all aspects of classic soft tooling techniques and methodology. Consolidated in one neat package the *CM2000* is designed for the mould maker to save precious time by vacuum casting a workable prototype. It's designed ease-of-use will quickly **guide students and apprentices through the fine art of making good soft moulds and professional prototypes.**

The secrets of artisans, so closely guarded previously, now no longer reside in the heads of master mould makers but rather in the logic and natural flow of the system design. Every aspect of the design, from physical appearances, system performances, professional prototype finishes to operational cleanliness and technical maintenance were carefully considered and taken into account to deliver you a very friendly, intuitive, reliable and easy to use vacuum casting system. The ease of operation makes it ideal for **training future master mould makers or just a classic tool for soft tooling or rapid prototyping.**

## Technical Specifications:

### **CHAMBER**

Fully welded sealed and inspected for leaks. Rubber sealed swing door with clear reinforced tempered glass window to withstand the pressure of the evacuated chamber. The closed hinged door has an inward 'play' to ensure snug fit to the chamber frame and speed up vacuum condition.

Dimensions	Internal 500mm (W) x 500mm (D) x 700mm (H)
Viewing Glass	310mm (W) x 490mm (H)

### **HARDENER CUP HOLDER**

The holder can contain & secure in place a cup up to 600 ml capacity. Remotely controlled from the front panel the cup can be tilted or gently pour its contents into the cup containing the resin.

Cup Capacity	600ml or about 600 gm of contents.
Control switch	Spring actuated toggle switch for tilt or reset. Pour action stops immediately on release of switch.
Interlocks	Resin stirrer starts turning once hardener pour action commences to ensure even mix. The hardener cup holder is not operable until resin cup holder resets to vertical position.

### **RESIN CUP HOLDER**

The holder can contain & secure in place a cup up to 800 ml capacity. Remotely controlled from the front panel the cup can be tilted or gently pour its contents into the mould.

Cup Capacity	800ml or about 800 gm of contents.
Control switch	Spring actuated toggle switch for tilt or reset. Pour action stops immediately on release of switch.
Interlocks	Resin stirrer starts turning once hardener pour action commences to ensure even mix. Resin cup holder not operable until hardener cup holder resets to vertical position

### **MOULD PLATFORM**

Platform elevator to raise the height of moulds, if necessary, for convenience of pouring resins into the mould. Vertical travel of 30cm and lifting capacity of 5 kg.

### **VACUUM SYSTEM**

Pump speed	22.5 cfm
Motor Power	0.75 KW
Rotating speed	1500 rev per min
Controls	Remote controls from front panel to operate open or close evacuation / inlet valves. Able to evacuate or release air to preset values of upper and lower level of vacuum conditions. Purpose of which is to restrict air bubble build up or to use air pressure to coax resins into intricate mould details
Interlocks	Air inlet valve is not operable to prevent accident of vacuum oil flooding vacuum chamber.
Physical	Vacuum pump can slide out like a draw from the front to facilitate maintenance.

## **SYSTEM**

Dimension	940mm (W) x 660mm (D) x 875mm (H)
Net Weight	330 Kg
Packing Weight	340 Kg
Power	220-240 VAC / 50/60 Hz

# **Cybron**

Technology Solutions Provider

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