

HARVEST

VACUUM CASTING MACHINE & ACCESSORY FOR RAPID PROTOTYPING

Effctitive process for sampling or small production.

Use for various field. Such as communication, toys, autos, appliance and medical facility.



New design



*Sample or
Prototype*



Silicone Mold



Products (PU)

3 STEPS. From prototyping to real finished plastic parts less than 3 hours.

MACHINE



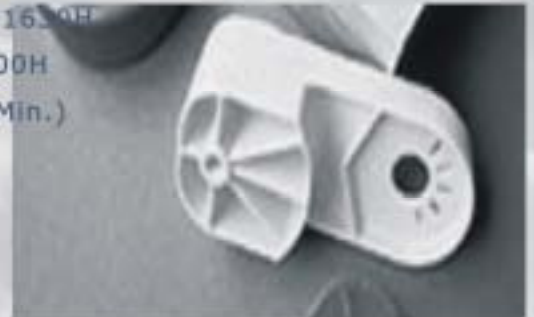
HVC-0

Outside Dimension (mm): 960L*720W*1630H
Vacuum Chamber (mm): 500L*550*830H
Vacuum Pump Capacity: 1.1kw (25Ltr/Min.)
Max. Casting Volume: 800 grams
Machine Weight: 480 kgs



HVC-1

Outside Dimension (mm): 1060L*900W*1630H
Vacuum Chamber (mm): 600L*600*1000H
Vacuum Pump Capacity: 1.5kw (60Ltr/Min.)
Max. Casting Volume: 1000 grams
Machine Weight: 540 kgs



HVC-2

Outside Dimension (mm): 1420L*850W*1780H
Vacuum Chamber (mm): 800L*650*1490H
Vacuum Pump Capacity: 3kw (100Ltr/Min.)
Max. Casting Volume: 2000 grams
Machine Weight: 830 kgs



HVC-4

Outside Dimension (mm): 1815L*940W*1690H
Vacuum Chamber (mm): 1200L*800*1490H
Vacuum Pump Capacity: 4kw (150Ltr/Min.)
Max. Casting Volume: 4000 grams
Machine Weight: 1500 kgs



HVC-6

Outside Dimension (mm): 2440L*1300W*1830H
Vacuum Chamber (mm): 1200L*1000*1490H
Vacuum Pump Capacity: 3kw (100Ltr/Min.)
Max. Casting Volume: 2500 grams
Machine Weight: 1500 kgs



TECHNICAL TRAINING

1. Mold making

> Master model preparation and set up casting tube.



> Preparation of mold frame.



> Mixing of two-component silicone and de-bubble under vacuum chamber.



> Casting the silicone into the mold frame with subsequent vacuuming.



> Mold cured in the oven.



> Cut and opened the silicone mold and master model is taken out.



2. Copy plastic parts

> Clean and preparation of silicone mold.



> Sealing of silicone mold with tape or tacker.



> Calculate suitable quantity of casting PU resin.



> Mixing of PU resin and de-bubble under vacuum chamber.



> Casting PU resin into silicone mold.

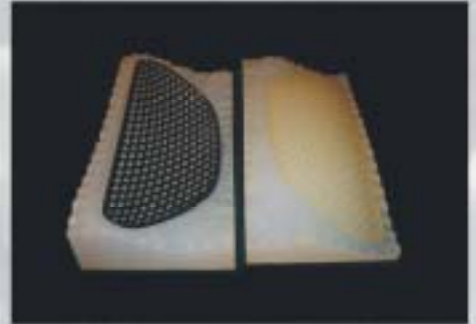


> Open the mold and get the plastic parts.



ADDITIONAL SILICONE & ACCESSORY

Property	Base SA3040A	Curing agent SA3040B
Viscosity, mPas	70,000	300
Density, g/cm ³	1.1	0.96
Mix ratio (PBW)	100	10
Color	Translucent	Clear
Mixture property		
Viscosity, mPas		35,000
Color		Translucent
Pot-life (23°C)		90 Min.
Cured after 24 hours		
Hardness (Shore A)		38-40
Tensile strength (Mpa)		6.5
Tear strength (N/mm ²)		32
Elongation break %		375



CONCERNING ACCESSARY:

- Stainless funnel
- Large cup
- Middle cup
- Small cup
- Stainless mixing stick
- PVC lining for funnel
- PVC lining for cup
- Small one way connect tube
- Small twin way connect tube
- Large twin way connect tube



We can also offer casting PU resin and heating oven.
Please contact us for detail.

Manufactured by
Yick Wing Machineries Factory

Worldwide Representative
HONG'S INTERNATIONAL LTD.

10F, 127, Section 2, Da-Tong Road, Shijr City, Taipei 221, Taiwan
Phone:+886-2-86926717 Fax:+886-2-86926900

www.rapidchemical.com.tw



Member of Rapid Chemical Group