



# Sublym100™

## Hot Embossing Machine

### Sublym100™

#### COMPACT SOFT EMBOSSING MACHINE

Sublym100™ is an easy-to-use and ultra-compact system for thermoplastic molding powered only by electricity. Without requiring pneumatic/hydraulic pump, the Sublym can be installed anywhere. (Micro)-structures can be molded on many low melting temperature polymers in few minutes and is within reach of any operators. Your Sublym™ countertop companion allows you to quickly prototype and produce small series of microfluidic/microsystem chips at a push of a button.

#### APPLICATIONS

- Soft thermoplastic molding
- Microfabrication
- Microfluidic fabrication

#### KEY FEATURES

- Fast molding: 2min to 15min
- Ultra-compact (33 x 34 x 11 cm3)
- Easy-to-use; no training required
- Electrical plug & play
- Adjustable temperature upto 180°C
- Suitable for mold up to 4-inch
- Low Cost



# Sublym™

Compact Soft Embossing Machine

Uses

THERMOPLASTIC MOLDING | MICROFLUIDIC FABRICATION

#### WORKING FEATURES

##### PROCESS PARAMETERS

##### PREHEAT MODE

0 - 120 sec/ 50°C - 180°C

##### NORMAL MODE (WITH VACCUUM)

1 - 999 sec/ 50°C - 180°C

##### MEMORY MODES

Save settings in two memory modes

##### SPACING

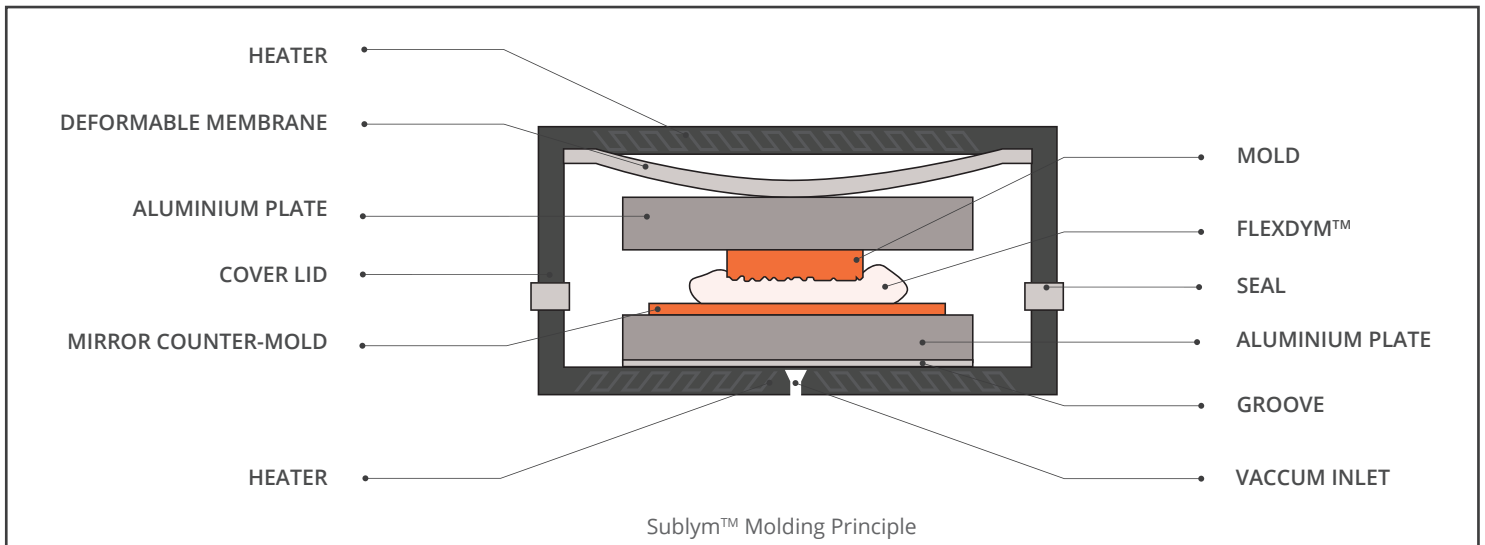
Adjustable manually from 0.1 to 12mm

##### DISPLAY

Centigrade and Fahrenheit Temperatures

##### MONITORING

Auto. process counting



## Sublym100™

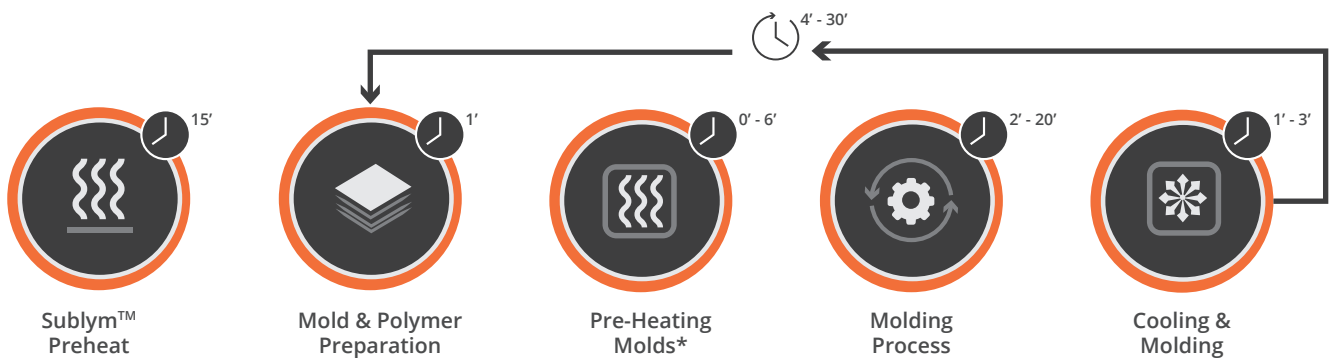
### WORKING PRINCIPLE

Temperature is regulated inside the molding chamber from 50°C to 180°C. The molding pressure is applied by a deformable membrane under vacuum (0.6bar under ATM) and allows to apply a force comprise between 1.2kN to 1.8kN.

### PROCESS CYCLE

Sublym™ is specifically sized to perform Flexdym™ molding, however others thermoplastics can be processed in the same way. You can obtain your molded material in few minutes at the push of a button.

TECHNICAL SPECIFICATIONS	
Dimension	33 X 34 X 11 cm <sup>3</sup>
Molding Size	Upto 4" in diameter
Max Mold Thick.	1cm (Opt: 1.5cm)
Temperature	50°C - 180°C
Temp. Ramp	180°C/ 5min
Approx. Force	1.2kN to 1.8kN



*\*optional; depends on size and type of mold*

### STORAGE AND HANDLING

The equipment heats up and one must always wear heat resistant gloves while operating. Products must not be transported while plugged in or hot. Store products in standard room condition and in an adapted box.