



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 equipment 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 Eden's microfabrication 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 until 180°C
- Suitable for mold up to 4-inch
- Space available: 10mm (Opt.:15mm)
- Power consumption: 800W
- Soft thermoplastic molding,
- Microfabrication,
- Microfluidic fabrication



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 VACCUM)

1 - 999 sec/ 50°C - 180°C

MEMORY MODES

Save settings in two memory modes

SPACING

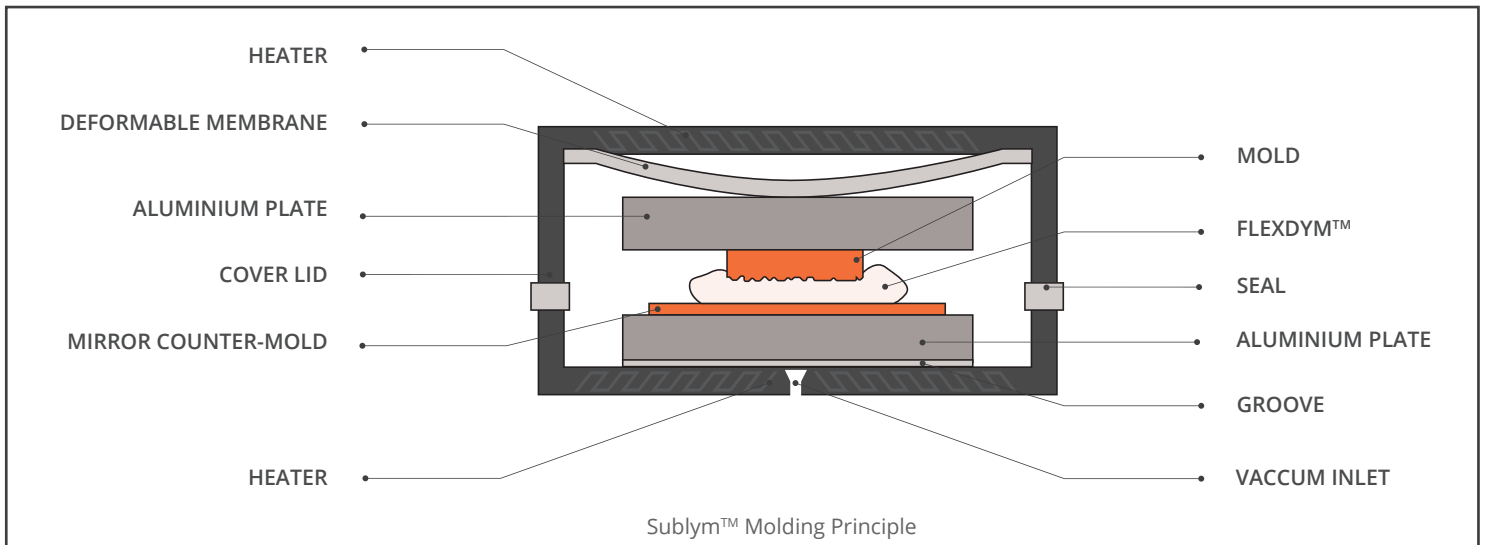
Adjustable manually from 0.1 to 12mm

DISPLAY

Centrigade and Fahrenheit temperatures

MONITORING

Auto. process counting



Sublym100™

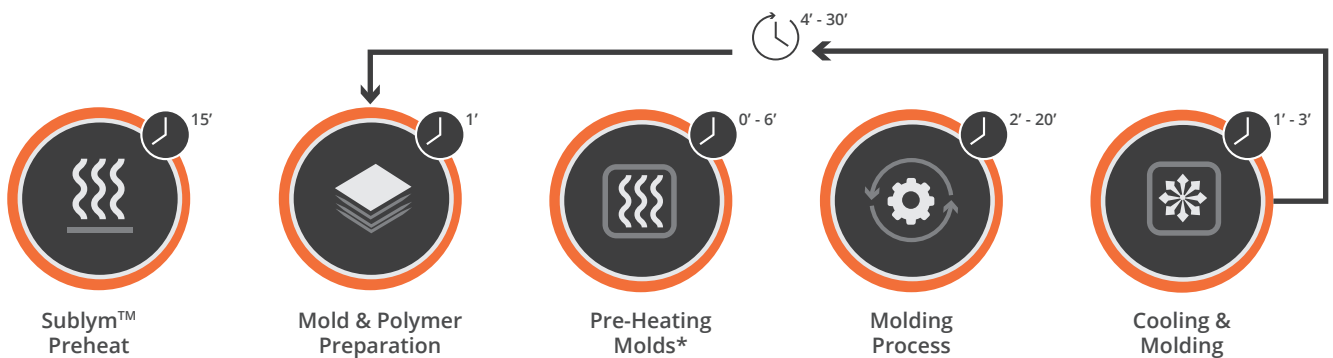
WORKING PRINCIPLE

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 get your molded material in few minutes at the push of a button.

TECNICAL SPECIFICATIONS	
Dimension	33 X 34 X 11 cm ³
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.