

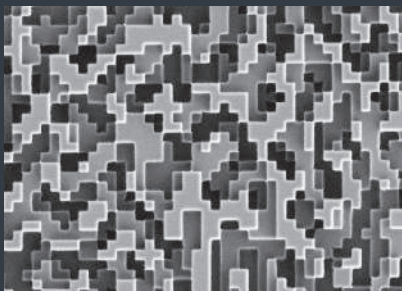
Nanoimprint lithography with a desktop **NanoImprinter**

Compact Roller-based tool for
Rapid Prototyping and Experimentation.



Desktop R2P NanoImprinter

The Desktop R2P NanoImprinter is a one-of-a-kind small-scale production machine. It is versatile, multifunctional and can pattern features down to a few nanometers with excellent replication quality. Used by academic researchers and industrial innovators for applications in photonics, displays, solar energy, biomedical devices, and more.



4-level beam splitter

Cell width/depth 500nm

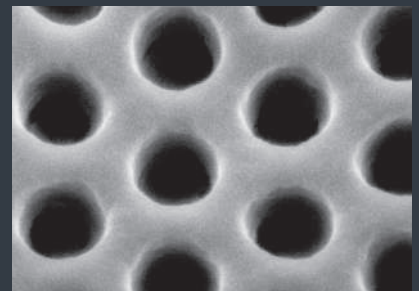
Courtesy of NIL Technology



Micro-engraving

Line width 20µm, depth 10µm

Courtesy of Karmic Säril



Nanostructure for life science

Cavity diameter 350nm

Courtesy of IMT AG

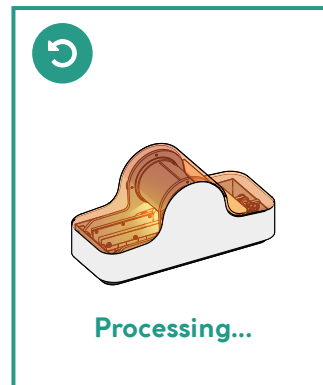
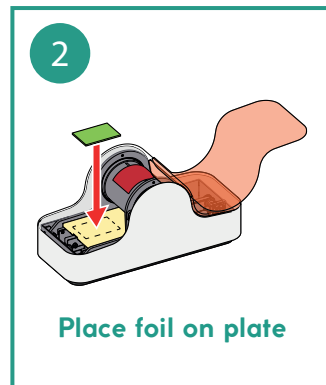
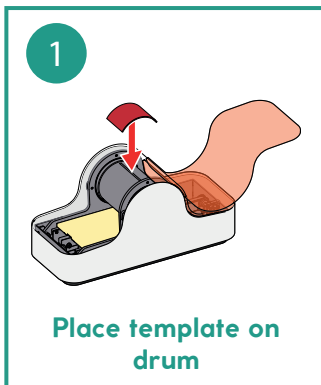
The Desktop R2P NanoImprinter enables the user to carry out testing and characterisation of photo-curable resins and nanoimprint materials using a **patented** nip imprinting process. It comes with our **patented** optical curing engine and easy mounting method for nanoimprint templates. Use your own templates made of PDMS, PFPE or hydrogels or make templates from our easy-to-use consumables.

Get a quick and easy start on nanoimprinting with the

Desktop R2P NanoImprinter

and selection of consumables

Fast replication of nano-structures



Desktop R2P NanoImprinter overview



Specs

Max imprint size:
Replication speed:
Speed range:
Two outputs:
Optical curing engine:
Device size and weight:

up to 105x188 mm (WxL), Substrate thickness up to 11 mm
60 manual replications per hour (speed up to 5m/min)
0.1 to 5 m/min
Roll-to-Plate and Roll-to-Foil operation
LongLife 395nm LED, up to 120mj/cm² at 5m/min
670x380x320 mm (LxWxH), 26kg



Tools

Sturdy flight case
Protective cover foil
Allen key screwdriver
Digital thermometer
Lee filter sheet
PP Pipettes: 8 pcs

Imprinting plates: 3 pcs
Soft impression sheet
Glass plate 3x155x310 mm
3M Scotch 810 Magic tape
Power Supply (220/110 VAC)



Foils

Substrate Material
PVC, 200µm: 15 pcs
PC, 180µm: 15 pcs
PET, 125µm: 15 pcs

Size	Bearer stripes
105 x 148 mm	15 x 300 mm; 6 pcs
105 x 148 mm	15 x 300 mm; 6 pcs
105 x 148 mm	15 x 300 mm; 6 pcs



Chemistry

Template resin DM56	10ml (low viscosity)
Template resin DM57	10ml (high viscosity)
Replication resin X29	10ml (high viscosity)
Replication resin X166b	10ml (low viscosity)



STENSBERG

Come talk to us about your special nanoimprinting needs.

We have over 20 years of experience.