

# Compact Nanoimprint Tool CNI v3.0

A desktop nanoimprint tool for easy replication of micro- and nano-structures. Nanoimprinting has never been more simple



## The starting point for nano-replication

The CNI is an innovative desktop size tool for nano-imprinting and hot embossing. It uses a master to transfer micro- or nano-structures to a substrate. The CNI tool can perform both thermal and UV replication.

The tool is available in two versions supporting masters and substrates of up to 120 mm or 210 mm in diameter.

The CNI tool is perfect for those starting-out in nanoimprinting, yet it also supports mature and advanced development work.

The CNI tool is simple to operate, it is robust and facilitates non-standard processes and new experiments. The tool's functionality, flexibility, and unparalleled customizability make it a go-to solution for any nanoimprinting challenge.

# Benefits of the CNI

<b>Easy to install</b>	Plug and play in less than 20 minutes
<b>Excellent</b>	With its thermal and UV replication capabilities, in vacuum if needed, the CNI tool is unique in its offering and supports many different technologies and processes
<b>Easy to use</b>	Anyone can use it - you will probably never read the manual
<b>Compact size</b>	The entire tool – even the 210 mm chamber version – fits within a square meter area
<b>Easy in the lab</b>	CNI takes up little space and does not require new fixed installations
<b>High quality imprints</b>	Capable of replicating structures from smaller than 40 nm to structures larger than 100 µm
<b>Versatile</b>	You can work with any size stamp or substrate that fits within your chamber. Your imprint stack can be up to 25 mm high
<b>Support</b>	We assist our clients in obtaining good results, offering individual support with a singular focus on your processing needs.

## CNI v3.0 features

- A desktop size nanoimprint tool
- Thermal NIL up to 250°C
- UV NIL at 365 nm or 405 nm
- Imprint in vacuum (around 1 mbar)
- Stamp and substrate size up to 210 mmdiameter
- No fixed format for stamps and substrates
- Robust and simple to use
- Manual load and unload
- Automatic process control
- Easy to operate software interface
- Logging of all recipes and processes

## CNI v3.0 supports many different technologies

- Thermal nanoimprint
- UV nanoimprint
- Hot embossing
- µ-contact printing
- Polymer bonding
- UV replication of optical components

Read more about the CNI at [nilt.com/cni](https://nilt.com/cni) or contact us at [contact@nilt.com](mailto:contact@nilt.com) to get more information.

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