



PL Series

EZImprinting introduces a bench-top, stand-alone nanoimprint platform:
The PL series **PL200/400/600**.

This platform provides a mechanical stage with micro-positioning fixtures for mounting a nanoimprint chamber, UV-curing source, and alignment microscope.

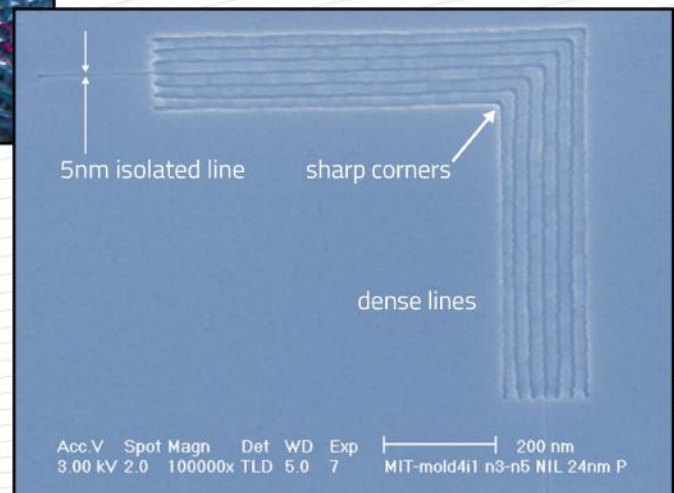
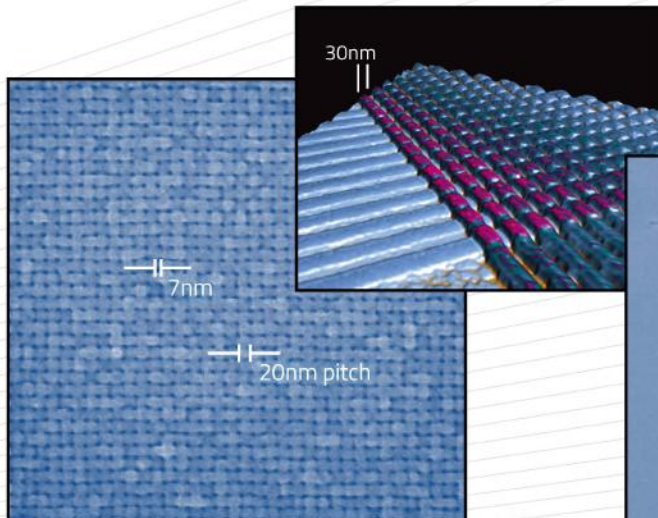
It functions both as a nanoimprint system and as a traditional mask aligner while providing programmable, automatic control of your entire imprinting process.

EZImprinting Advantages:

- **Sub-10nm** resolution with **99% yield**
- Supports both hard and soft molds
- Variable mold and substrate sizes offer unparalleled convenience and flexibility
- Auto-Release process prevents mold/substrate damage during separation and maximizes yield per imprint
- Versatile processes for a wide variety of applications: optical devices, displays, data storage, biomedical devices, semiconductor IC's, chemical synthesis, and advanced materials
- Programmable PLC with touch-screen user interface allows process control through customized parameters
- Proprietary UV-curable nanoimprint resist has no limitations on hardness or thickness, and is compatible with traditional photolithography processes

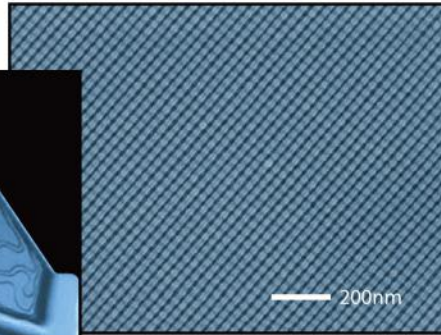
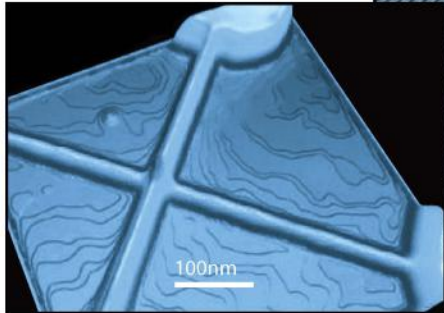
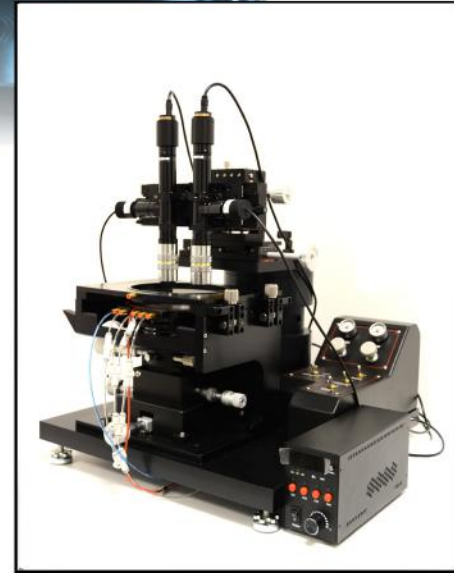


PL600 with alignment microscope





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EZImprinting process specifications:

	PL200	PL400	PL600
Substrate size	2" standard (smaller sizes, irregular shapes compatible)	4" standard (smaller sizes, irregular shapes compatible)	6" standard (smaller sizes, irregular shapes compatible)
Imprint area	Same as wafer size	Same as wafer size	Same as wafer size
Mold plate size	2" and 1"	4", 2" and 1"	6", 4", 2" and 1"
Imprint pressure	1 psi standard		
Mold/substrate Auto-Release	Included- no special tools needed		
UV exposure time	2-3 min at 95% intensity level		
Alignment capability	X, Y, Z and theta (accuracy 2 μ m)		

Technical specifications:

Control box operating pressure	45 psi standard
Control box vacuum	<-14 psi
LED light source	2" diameter, >5W
Filtered pressure source	70-100 psi
Vacuum source	<-14 psi
Power	110-220V, 50/60Hz
Cleanroom class	Class 1000 or better
Stage	17" x 15.5" x 10.5", 80 lbs.
Touchscreen controller	6" x 8" x 2.5", 1.5 lbs.
Electronic control box	17" x 14.5" x 5.5", 11.5 lbs.
LED UV light source	11" x 11" x 4.5", 7 lbs.

