

Foundry for nanostructure mass production

NILT is fully integrated “one-stop shop”. From prototyping to mass production, we have the highest quality, custom manufactured nanostructures on the market, making NILT the most important partnership for you and your company.

OUR CAPABILITIES



Master Fabrication

Our team of lithography experts will build a highly precise master up to 200 mm in size.



Quick Turnaround Prototyping

Prototype parts will be produced by nanoimprint lithography or replication from the master for customer qualification.



Process Optimization

NILT will transfer your product to our manufacturing group, which mass produces your parts.



Mass Production

NILT facilities have a high degree of flexibility allowing for efficient ramp-up and changing demand.

Manufacturing Line

- Nanoimprint lithography / replication
- Dry Etching
- Metal Evaporation
- Wet chemistry
- Fully ISO certified

Characterization

- Characterization of products based on optical characterization microscopy (SEM, AFM, OM)
- In-line process controls using non-destructive methods
- Optical method for characterization of mechanical parameters of nanostructures, fast and non-destructive

Engineering and Mastering

Provides:

- Master layout
- Design for manufacturing
- Master creation
- Small- and large-scale prototyping
- Process development and documentation
- Material selection and testing
- Process transfer to MP line

Backend

- Dicing
- Automated optical inspection
- Automated pick and place
- Packaging
- Reliability testing
- Fully ISO certified

