



# NBM Design

## HIGH PRESSURE RHEED PULSED LASER DEPOSITION SYSTEM

1200°C ROTATING HEATER

(6) Ø1" TARGET MANIPULATOR

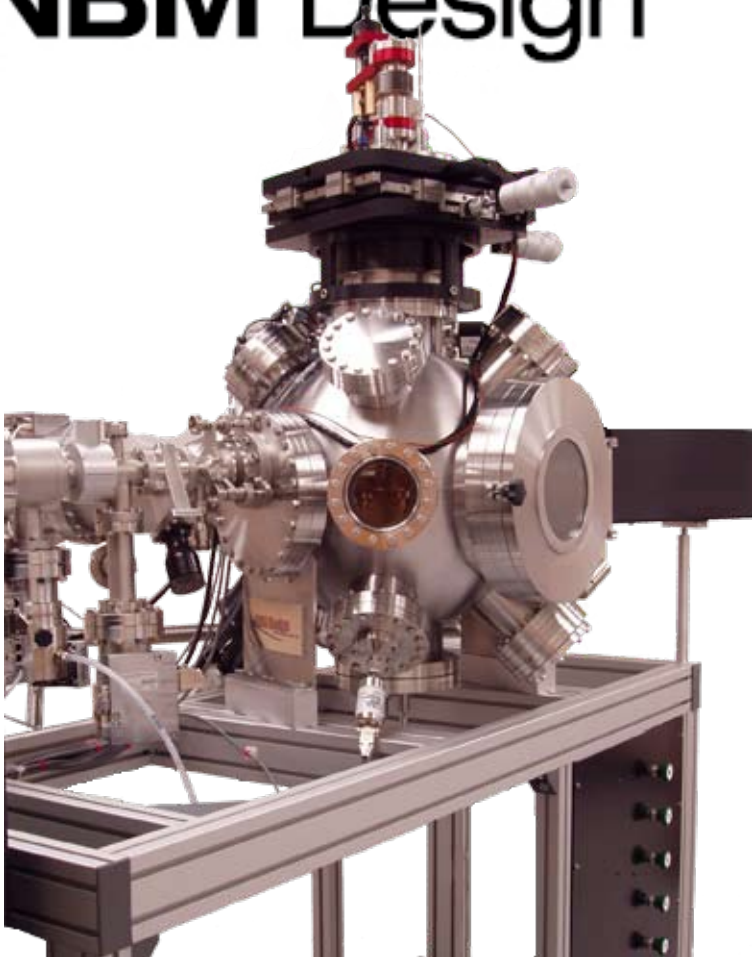
Introducing a system designed to perform beyond traditional expectations. Introducing NBM Design's Pulsed Laser Deposition System with integrated high-pressure RHEED.

Your system comes ready to install into your lab with minimal setup. The oil-free pumping system provides for a clean environment with worry-free performance.

The system features a multiple target manipulator with a choice of four or six 1" targets. Other configurations can also be furnished upon request.

Substrate heating is accomplished with either a radiative or conductive heating scheme. The conductive heater offers uniform temperature across the substrate mounting surface, even at lower temperatures. Radiative heaters allow for substrate rotation for optimum deposition thickness profiles, with superior thermal distribution across the heated area.

With years of development behind our systems, our systems are designed to be rugged, with hardly any maintenance required. Contact us to find out how NBM Design can assist you with your system requirements.



### MULTIPLE TARGET MANIPULATOR

NBM manipulators feature a choice of 3, 4 or 6 targets with either standard or position-sensitive target holders. All versions are available with automated target movement that can be synchronized with laser shots for customizable deposition recipes.

### ROTATING NON-CONTACT SUBSTRATE HEATER

Our heaters feature 1200°C maximum temperature that efficiently heats most substrates to process temperatures. The substrate is mounted on a rotating platform for optimized thickness uniformity. Finally, the entire unit can be mounted on an X-Y manipulator for fine adjustments used in RHEED diagnostics.

### COMPLETE LAB SET UP

Our engineers will work with you to fill your current and future requirements. Many accessories can be provided, including gas cabinets, optics train, and laser framing.



[www.nbmdesign.com](http://www.nbmdesign.com)

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