

January 2010

News Bulletin

Nanotech®

See You SPIE Photonics West

26th - 28th January 2010
The Moscone Center
San Francisco CA, USA
#1438 South Hall



Being demonstrated will be the very latest Nanotech® 250UPL Ultra-Precision Lathe. The machine boasts numerous specification enhancements and additional features, while sporting a newly designed enclosure and color scheme. On hand at the show to answer your questions are Bob Cassin and Jeff Perra, together with Steffen Schneider from our Applications team. We look forward to seeing you in San Francisco.



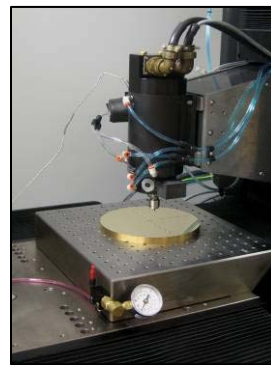
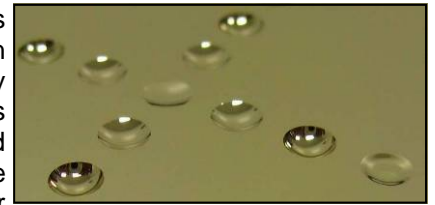
On hand at the show to answer your questions are Bob Cassin and Jeff Perra, together with Steffen Schneider from our Applications team. We look forward to seeing you in San Francisco.

Global Service Support...

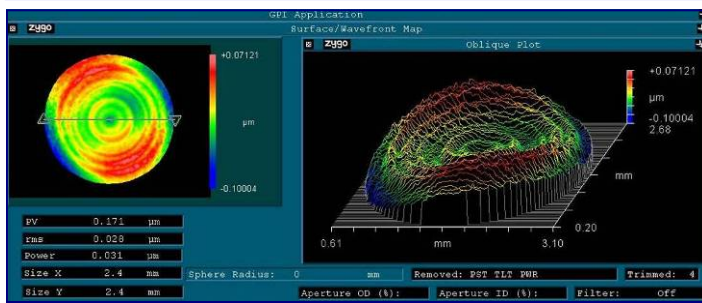
Nanotech® prides itself in its After-Sales Service Support. An excellent reliability record is complimented by an industry leading ratio of *Service Technicians : Machines*. Factory-trained expertise is at hand in Europe, India, Singapore, China, Taiwan, South Korea and Japan. This is further bolstered by our extensive service capability at our headquarters in the United States.

Applications Support... Micro Milling of Micro-Structured and Freeform Optics

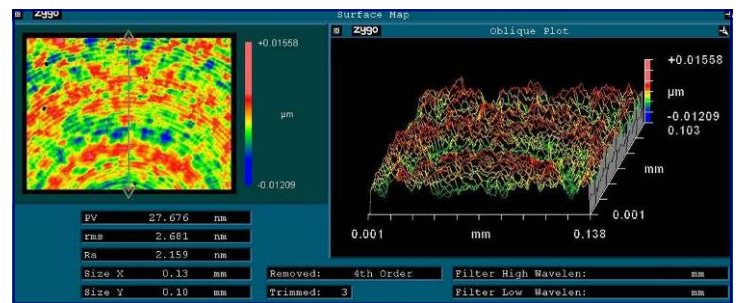
Nanotech® is driven by its customers application requirements. Many require extensive process development to yield maximum benefit from the advanced features of our machining systems. Recent applications support includes the machining of Wafer-based lens arrays where a planerized substrate is populated with as many as 5000+ individual aspheric lenslets to a pitch accuracy of 1 - 2µm.



Challenges such as thermal control and diamond tool life, together with the development of programming and machining strategies, come together to allow such parts to be machined to the highest accuracy and efficiency. The examples shown utilize a Spiral Micro-Milling technique using X, Z & Y axes, whereas X, Z & C can also be adopted depending on machine configuration. Raster Micro-Milling and the more simple Plunge Micro-Milling techniques can also be adopted depending on lenslet geometry. Dedicated Micro-Milling machine platforms are also available as shown in the Nanotech® 350UPM photo shown here.



Form: 0.171µm PV Individual 2.5mm diameter lenslet generated by Spiral-Milling: Fully machined in <7 mins Surface Texture: 2.159nm Ra



Business as Usual...

Nanotech® is pleased to announce that its new facility was completed and that all operations have been transferred at the end of 2009. Please make a note of our new address for future correspondence and visits. Telephone and Fax numbers remain unchanged.

Moore Nanotechnology Systems, LLC
230 Old Homestead Highway
Swansey, NH 03446
USA

Next Issue: Nanotech® 700UPF and 350UPM www.nanotechsys.com



Moore Nanotechnology Systems, LLC

230 Old Homestead Hwy., Swansey, NH 03446 USA

Tel +1 603 352-3030