

News Bulletin / June 2013

Let's Review. . . lathe style systems



What are the main differences between our three lathe style systems? Well, our **250UPL** is the most compact diamond turning system available with a 250mm diameter swing capacity. If your application requires a bit more breathing room, the big brother of the 250UPL is our mid-size **450UPL** with 450mm diameter swing capacity - additional swing capacity is provided upon request. With the addition of optional axes (C, B, or Y), either of these systems can be configured with up to 4 axes of continuous path motion control.

Finally, if we take the 450UPL, remove the fixed spindle, and in its place add an oil hydrostatic vertical Y-axis with centrally mounted air bearing spindle, you have the most flexible 5-axis Nanotech **350FG**.

Several options, one industry leading global supplier . . .
Moore Nanotechnology Systems, LLC

Inside Nanotech . . .



To position ourselves for continued future growth and in keeping with our ongoing commitment to meet the demands of our customers through innovative technology offerings and unparalleled pre & post sales technical support, Nanotech is proud to announce the following recent promotions within our organization:

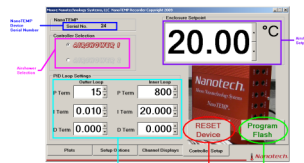
Tom Dupell - Vice President & Chief Operating Officer

Robert Cassin - Vice President Sales

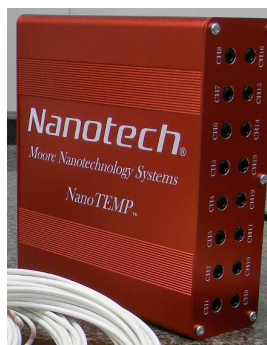
Pat Hurst - Vice President Engineering

Have Thermal Problems? . . .

16 Channel Precision Temperature Monitoring System



Thermal management can be a real challenge, but being able to precisely monitor each component of your project or facility may help lead to a typical reason for process instability. Our **NanoTEMP™** system is an extremely precise temperature monitoring and recording platform.



The base system includes the electronic control box, user software, 4 precision surface mount probes, and 4 precision caged air probes (up to 8 additional probes can be added for additional price). May be operated on the Windows based control of any Nanotech[®] diamond turning machine (meeting system requirements), or can be made portable with a separate stand alone remote laptop or PC (customer supplied).

Reality Check ...1nm Surface Finish

Is it possible to achieve less than 1nm Ra surface finish directly off the machine? The short answer is yes, but in what material? One can't claim specific results without first defining the part in detail. The two go hand in hand.

For this reason, every Nanotech machine is qualified based on a defined pure aluminum Standard Machine Acceptance Test Part. Both form and finish are measured on the same test part so that machining parameters are not set to favor better final form and then re-defined for best finish. The result is a true representation of machine performance while eliminating material differentials from the equation.

