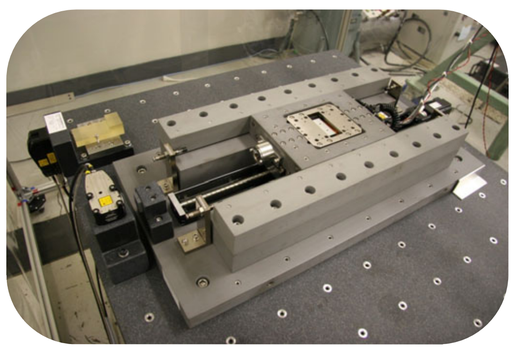
YOSHIOKA LAB.

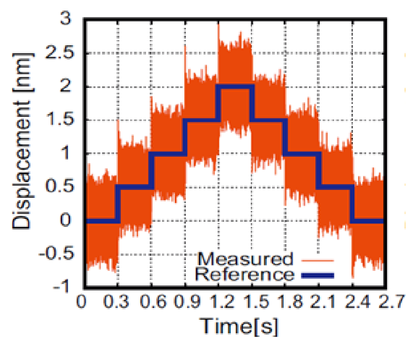
Controlled Precision Machining

Department of Mechanical and Biofunctional Systems

Production Engineering
Department of Mechanical Engineering, Graduate School of Engineering
https://yoshioka-lab.iis.u-tokyo.ac.jp/

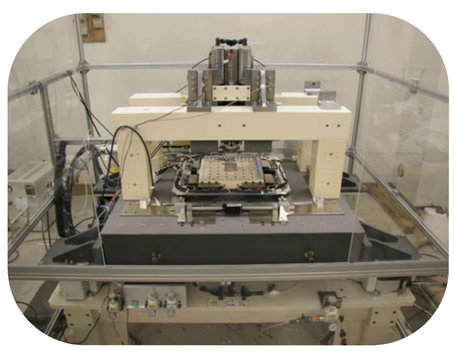
- Realization of Advanced Machining Technology
- Control of Machining Factors nearby Machining Point

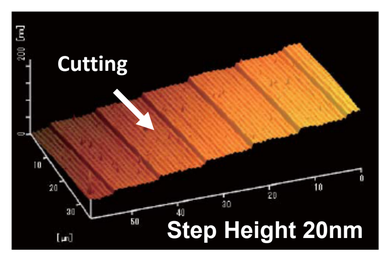




Ultraprecision Motion Control

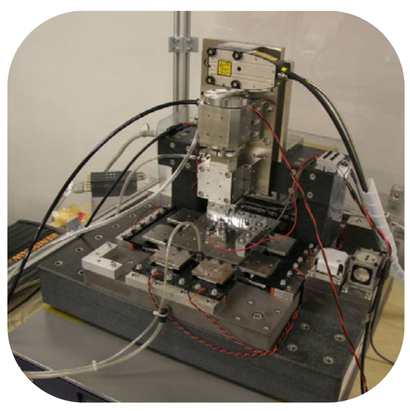
- Nanometer position
- Ideal Mechanical Structure

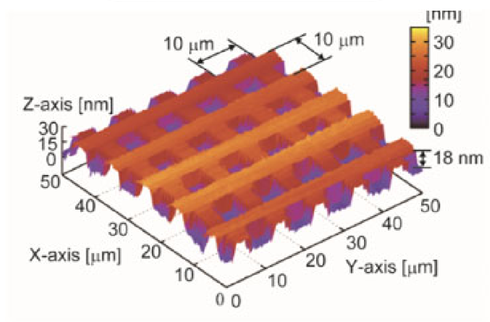




Ultraprecision Machining System

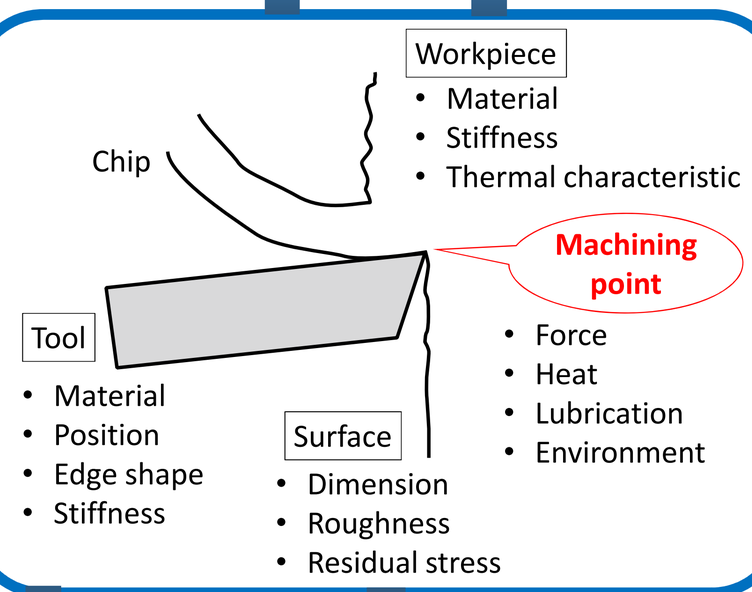
- Nanometer positioning capability
- High Stable Mechanical Structure

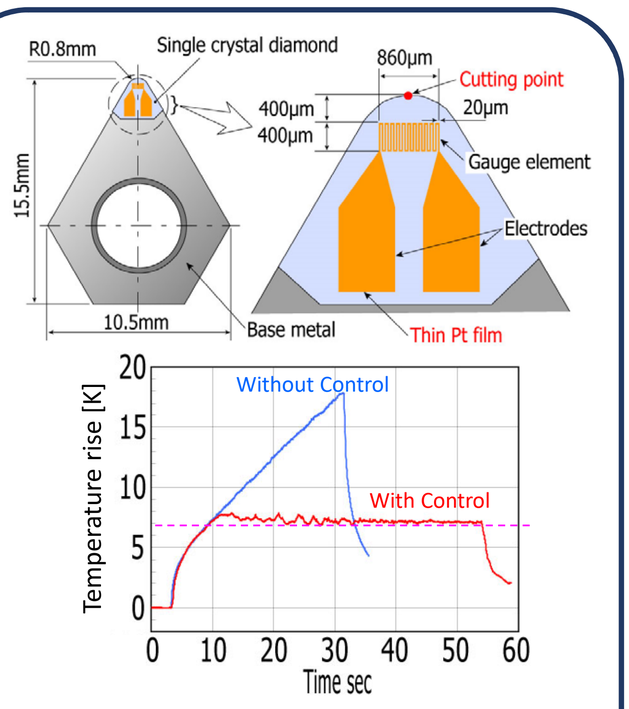




Nano Measurement

- 3D Measurement
- Abbe Error minimization





Cutting Tool with Micro Thermosensor

- Monitoring of Thermal behavior
- Control of Machining Temperature

Fast Tool Servo for Milling process

- Axial Positioning of Cutting Tool
- Texturing on Curved Surface