

Yoshioka LAB.

[Controlled Precision Machining]

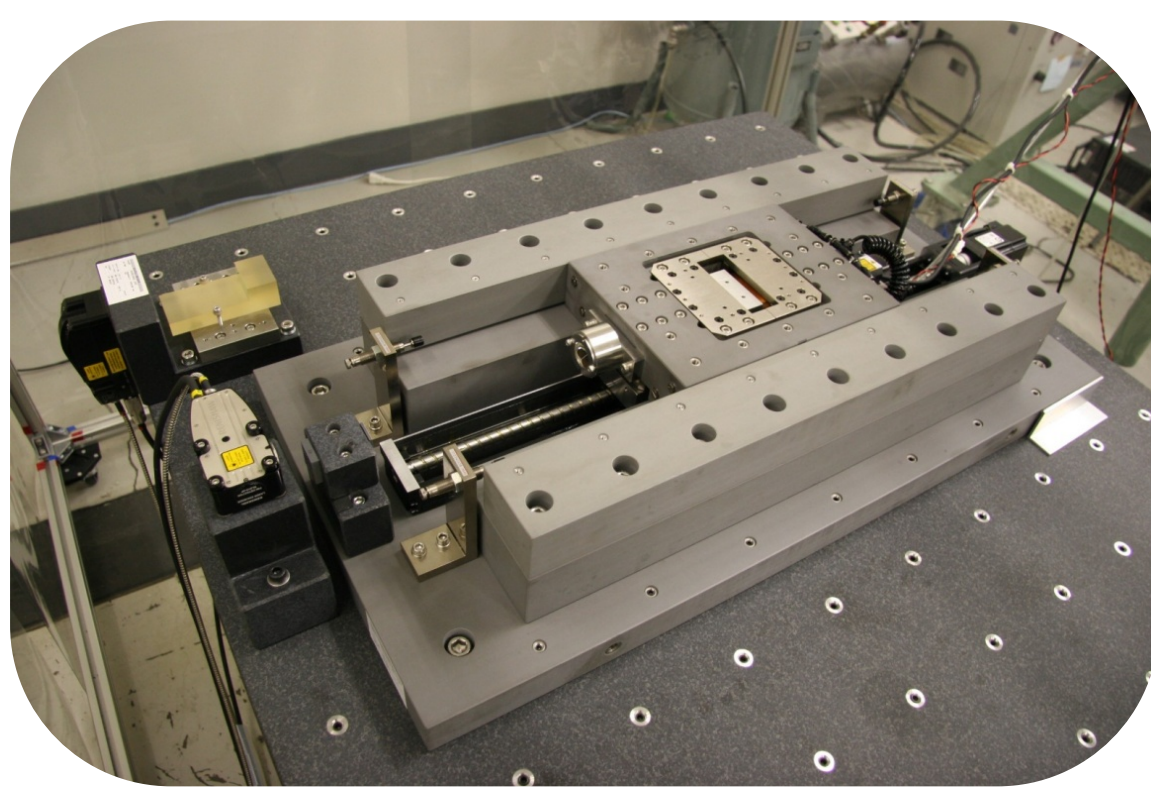


Department of Mechanical and Biofunctional Systems

Department of Mechanical Engineering

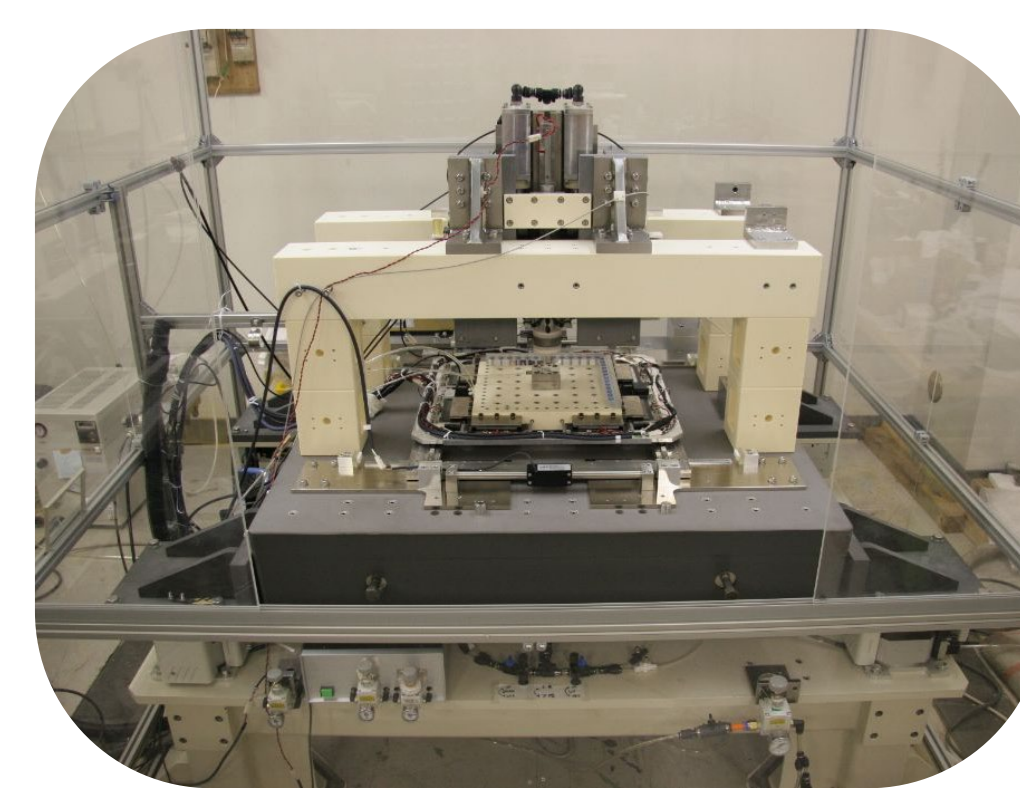
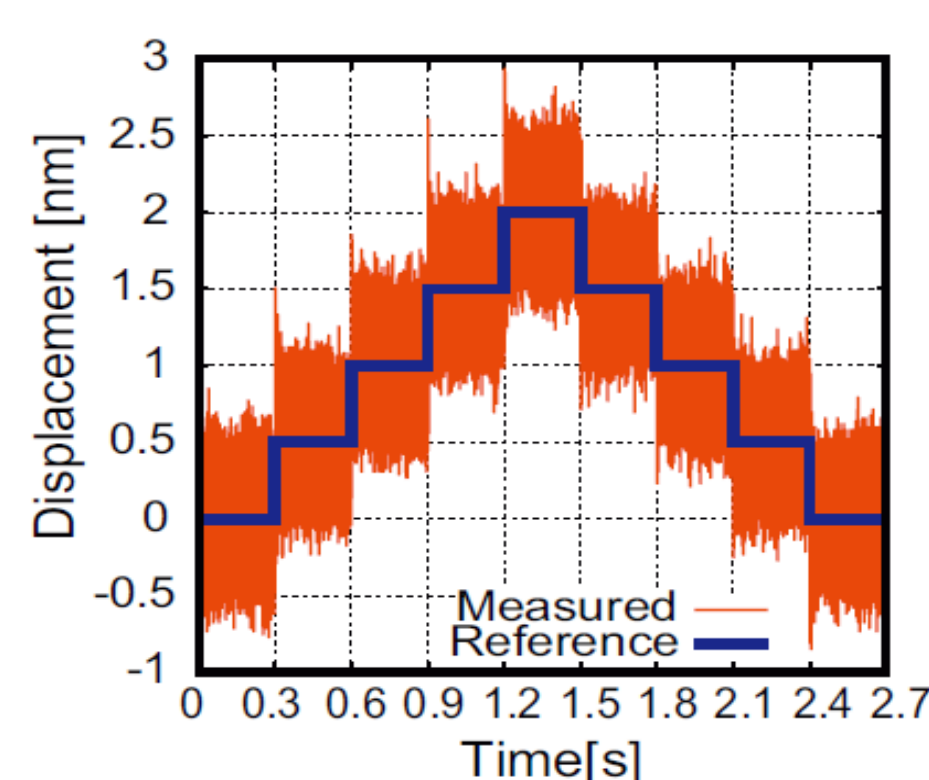
<https://www.iis.u-Tokyo.ac.jp/>

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



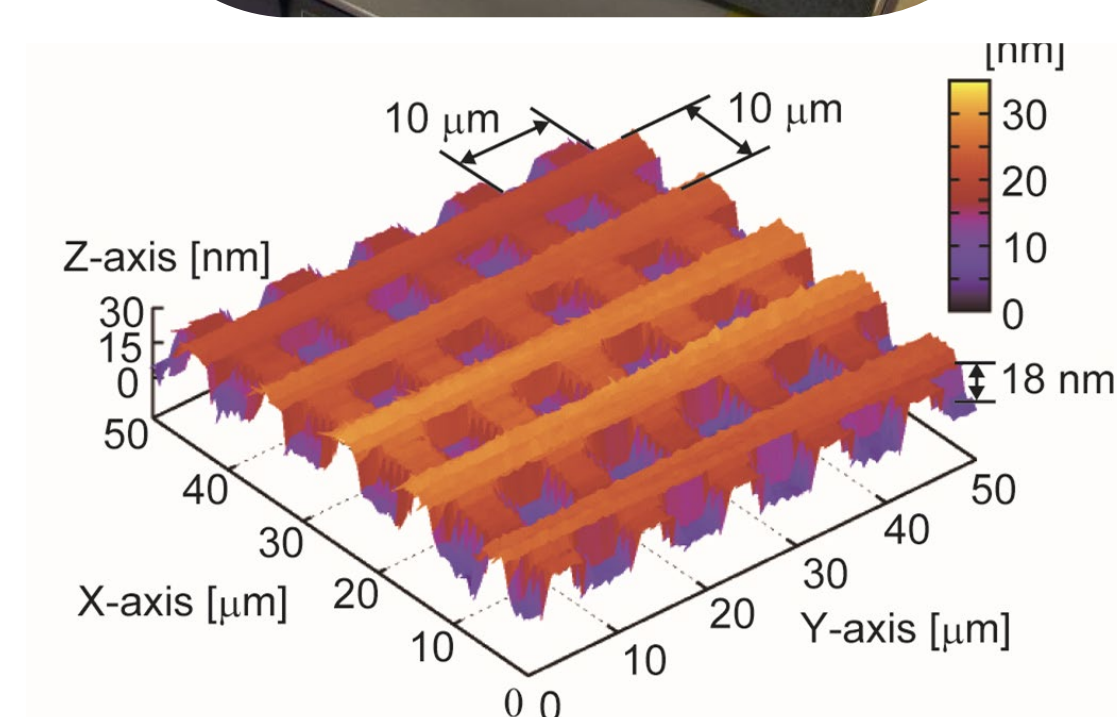
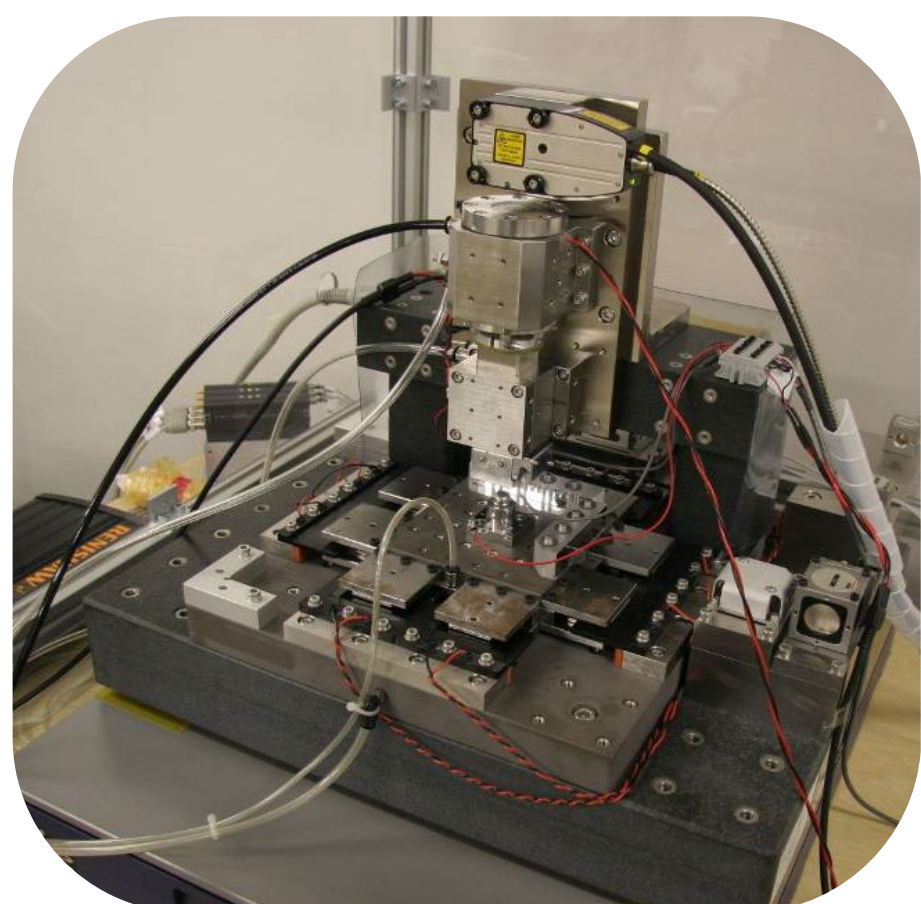
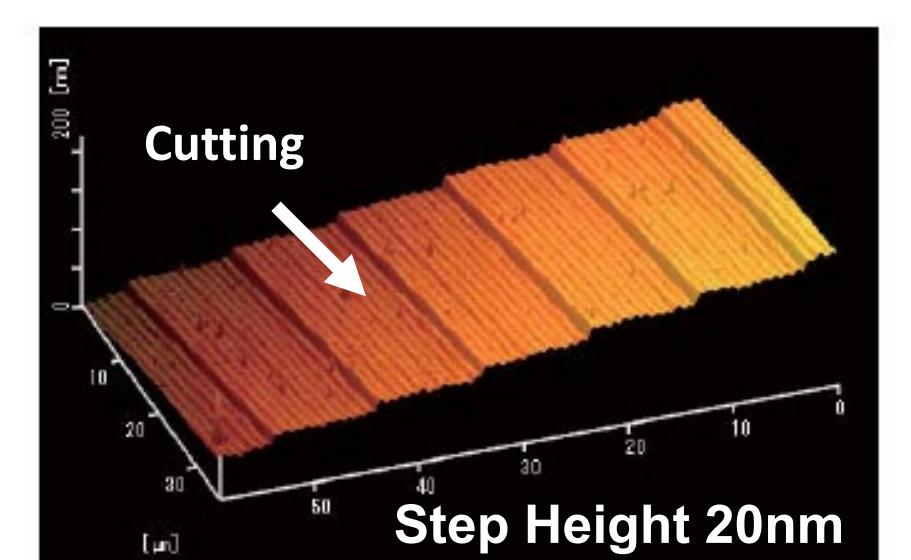
Ultraprecision Motion Control

- Nanometer position
- Ideal Mechanical Structure



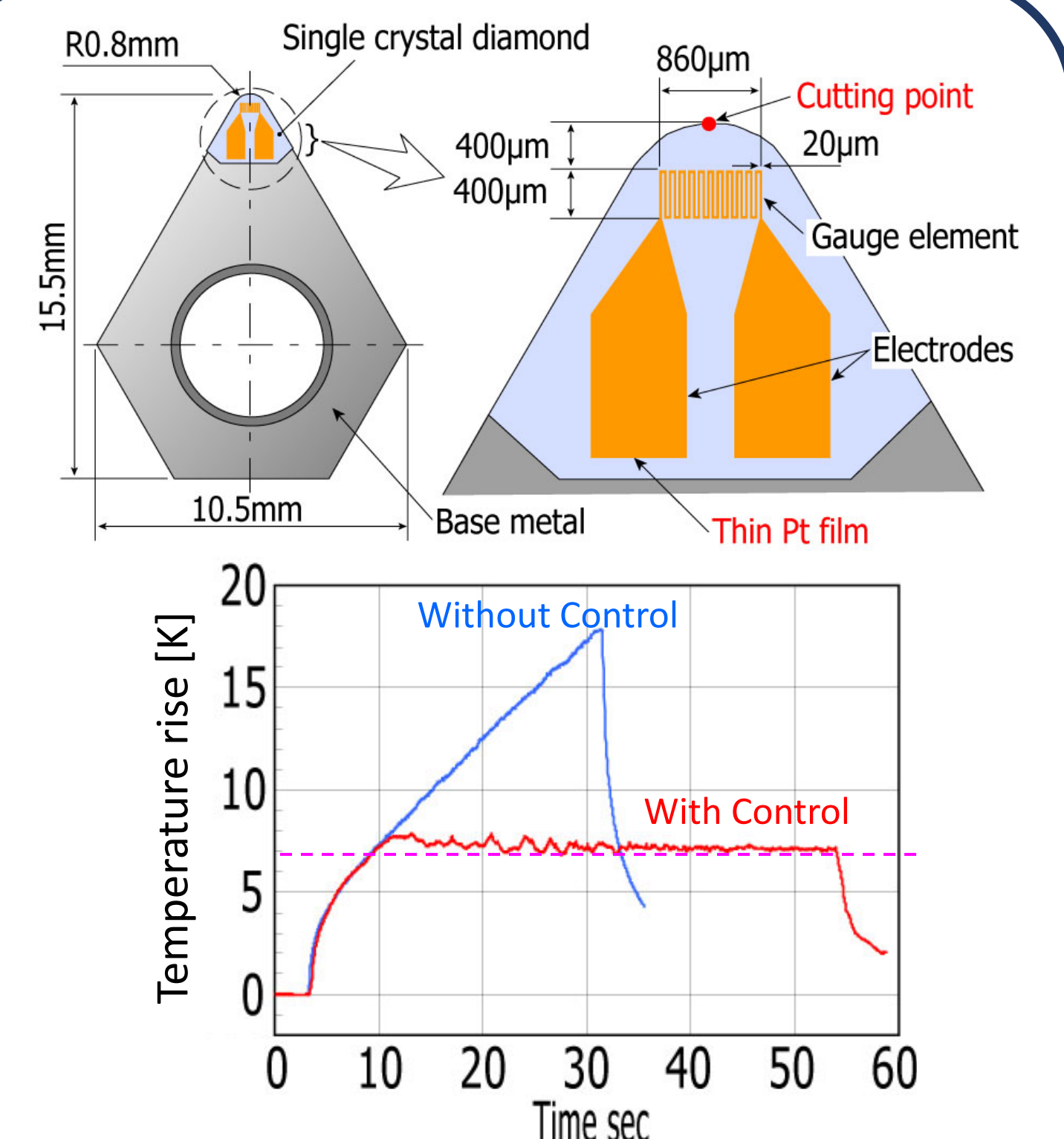
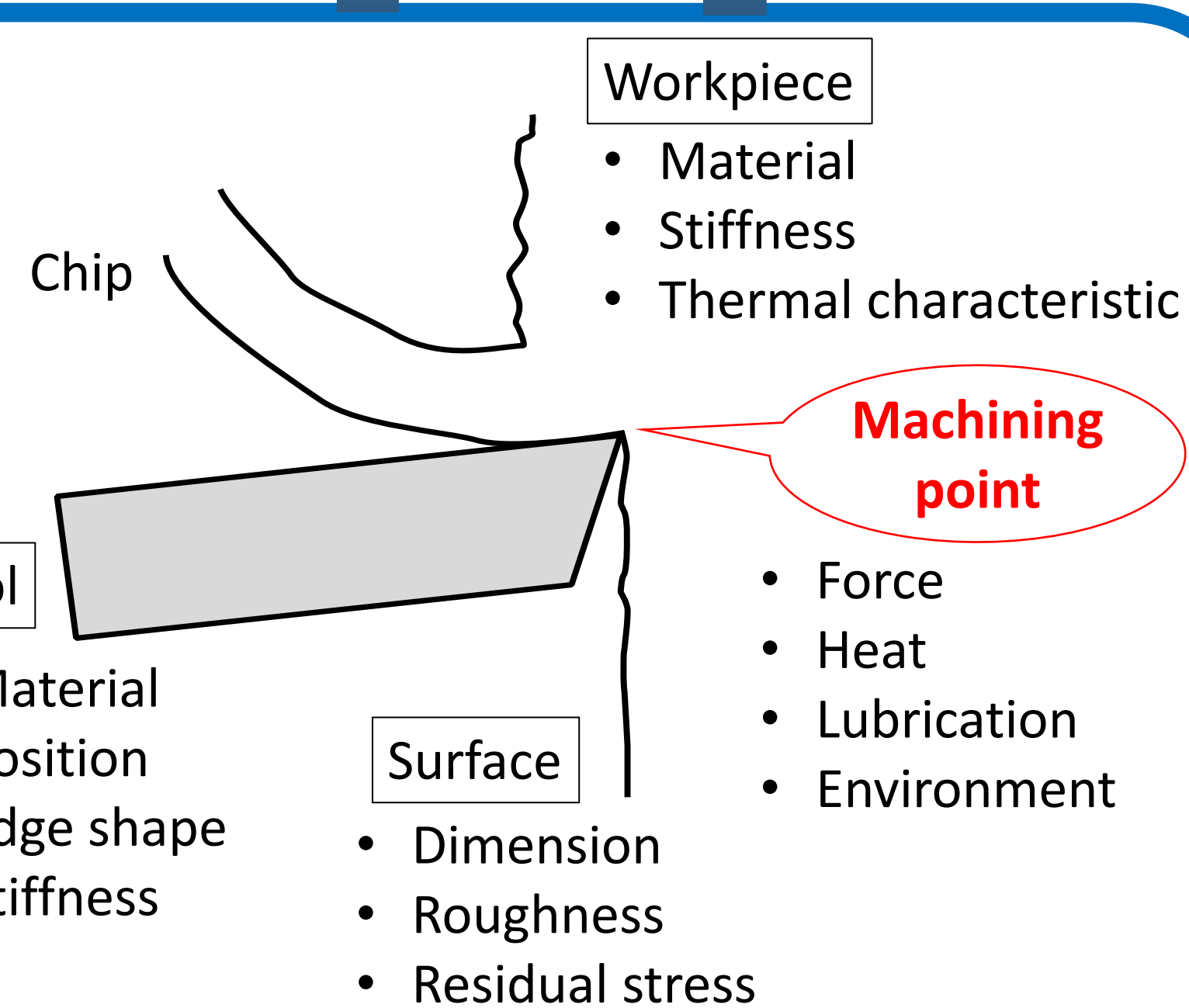
Ultraprecision Machining System

- 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

