

Summary

Name : Masaki Michihata

Period : Feb. 2005 – Jun. 2005

Home university : Osaka university



Host University : Delft university of technology

Activities at TU Delft

Research work : Development of micro-gripping on basis of electrostatic force

Courses : Fundamentals of material removal process

Electromechanical systems

Measurement theory and praxis

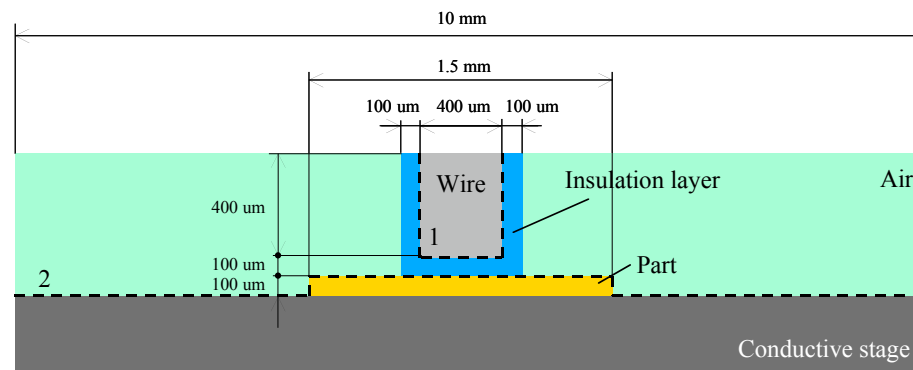
English course

Research

Development of micro-gripping on basis of electrostatic force

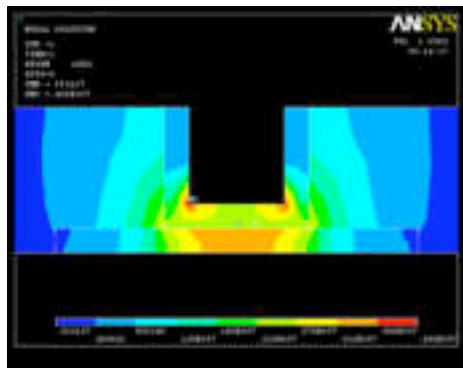
- Theoretical approach

Modeling for analysis

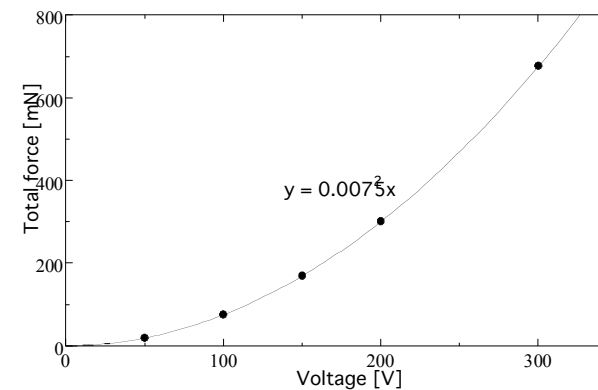


Theoretical results

Electrostatic field

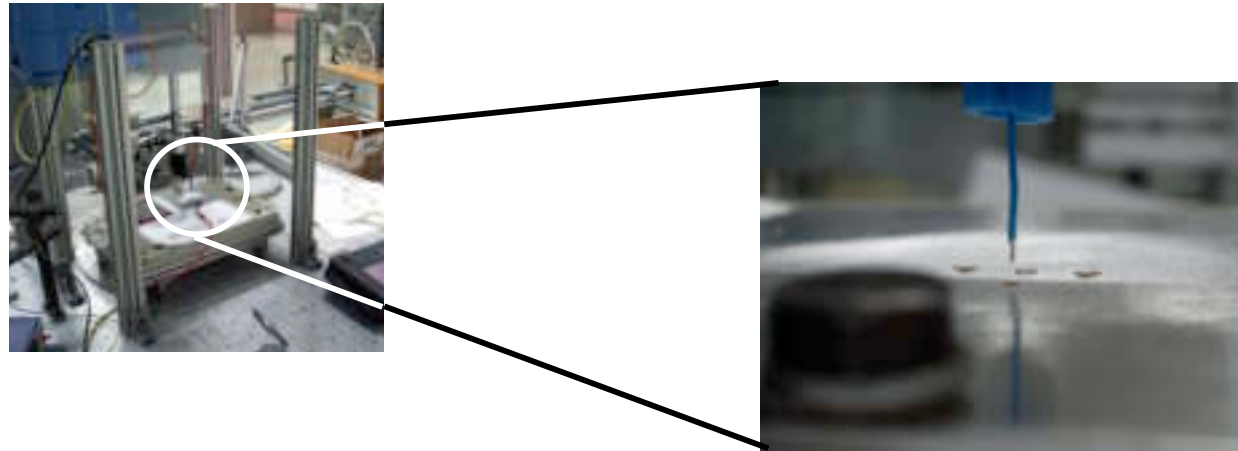


Generated force



Research

- Experimental approach



Experimental results

Possibility of gripping

	500V	300V	200V	100V	50V
Move	100	80	100	60	10
Possibility of Pick up	0	10	0	0	10
Release	-	0	-	-	0

unit : %

Exchange life



Marathon



Very cold winter @ library in TU Delft



Football match
Dutch against Japan



Moto GP in Assen