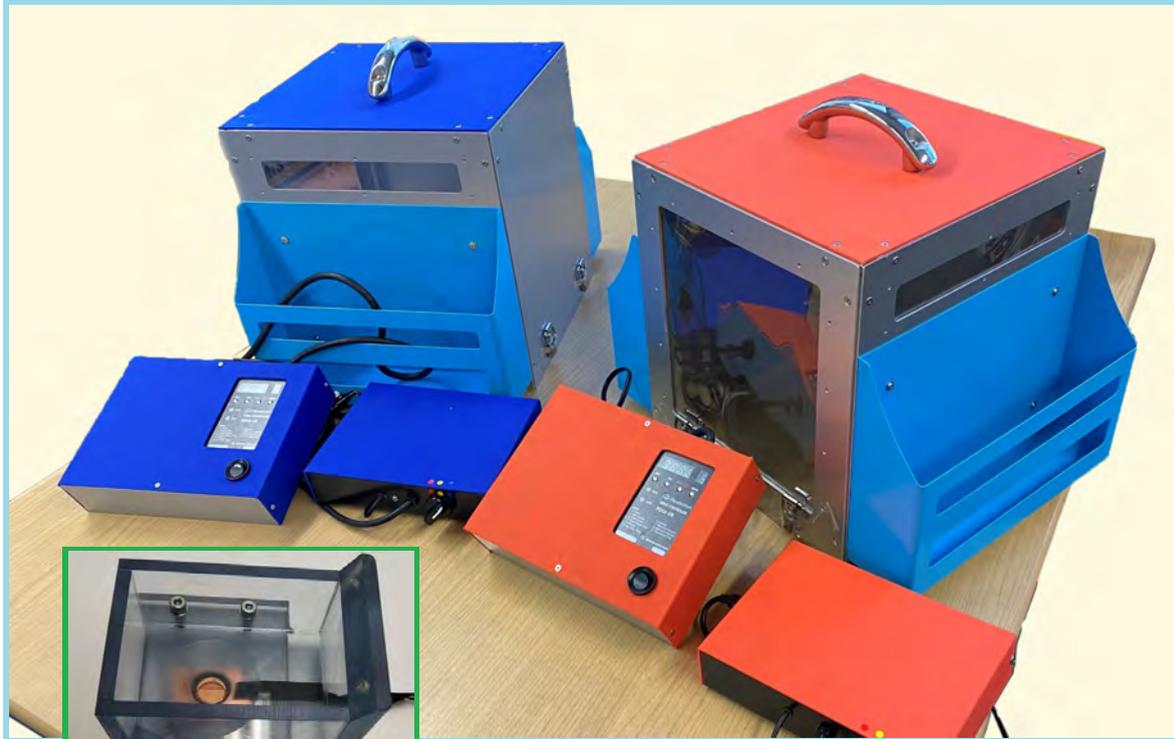


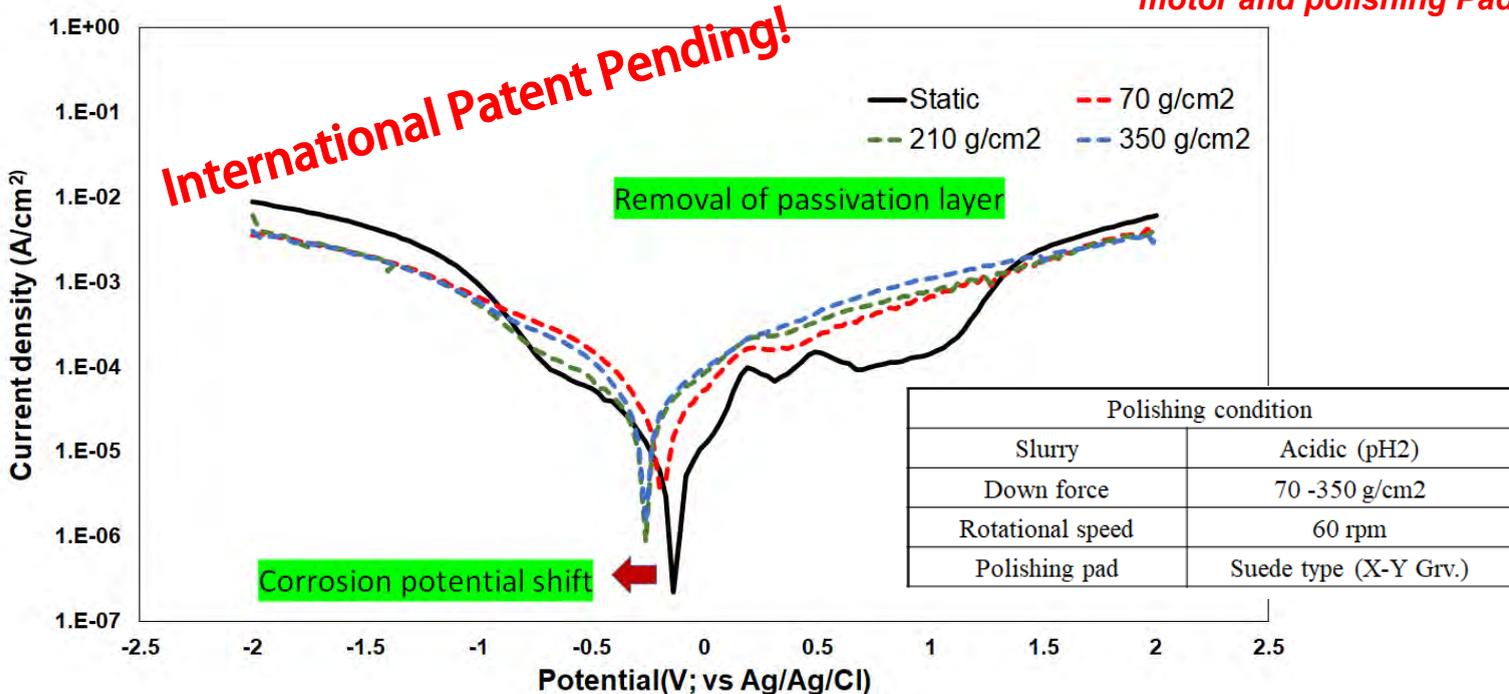
# Dynamic Electro-chemical Measurement System, "d-EC"

**In-Situ Chemical Corrosion Reaction Monitoring System for All CMP R&Ders**



Slurry Container with Sample Cu Wafer and Working Electrode

CMP Head with rotational motor and polishing Pad



Example of Cu Tafel Plots under some different polishing pressures measured by the apparatus



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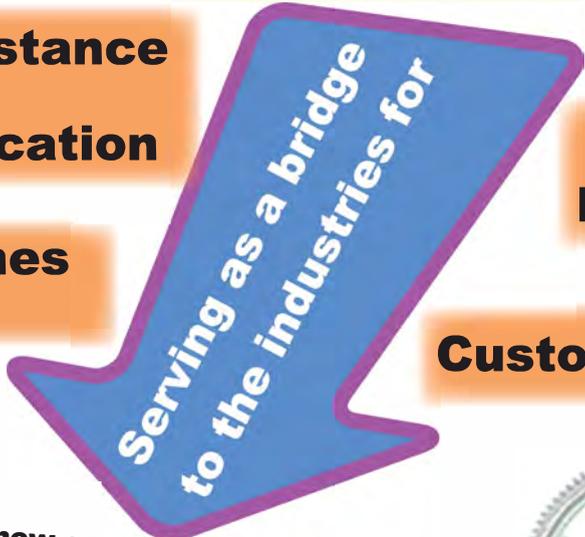
# Proposal of Ultra-Precision Processing Technology and its applications

Technical assistance and industrial education

Sales of machines and parts

Introduction of personnel network

Custom manufacturing



**"Launched a new product and now accepting orders: A Dynamic Electrochemical Reaction (d-EC) Machine, an essential tool for CMP and Plating R&D"**

## Realization of Innovatively High Performance Devices

### Keywords:

- 1) Ultra-precision processing technology
- 2) CMP(Chemical Mechanical Polishing) technology
- 3) High performance manufacturing process for hard-to-process-materials
- 4) Dilatancy-applied processing
- 5) Plasma Fusion CMP technology and its applications
- 6) HPMJ(High Pressure Micro-Jet) technology and its applications
- 7) History of Polishing Technology
- 8) Others (wafer-bonding, MEMS, fine-bubble water, MnO<sub>2</sub>/Mn<sub>2</sub>O<sub>3</sub> abrasives, etc.,)



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From Fukuoka Airport/Hakata Station: take subway "Kuko Line" to Fujisaki. From Fujisaki, 5 minutes by taxi.  
From Hakata Station, take bus to Fukuoka Tower. 10 seconds to the office building.

Entrepreneurship is Fukuoka! Active in the world!