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EBARA Has Delivered 3000 CMP Systems



In January of 2022, The Precision Machinery Company of EBARA CORPORATION (EBARA) has delivered 3000 cumulative CMP systems*.

1. Background

As the brain of electronic devices, semiconductor chips are employed in the manufacture of various kinds of electronic products such as smart phones, tablets, personal computers, home appliances, cars etc. As the information society advances, device performance and complexity has been rapidly progressing and increasing, while electric efficiency is required.

2. Outline

CMP equipment is a semiconductor manufacturing system that uses chemical and mechanical polishing to obtain the planarity demanded in nanometer scale (one nanometer = one millionth of a millimeter). Since EBARA developed the world's first "Dry-in/Dry-out" CMP equipment, we have catered to customer demands with our technology and supported a growth of the semiconductor industry where diversified needs are coming up.

In December 2021, we released a new chemical polishing system "Model F-REX300XA". Keeping the highly reliable structure of existing systems, the new CMP system will further enhance productivity and yield. The power consumption is decreased by 10% than our



conventional models. It contributes to supply chain CO2 emissions as well.

3. Future Plan

Further enhanced capability of devices has driven miniaturization of semiconductors, where transistors are integrated and densities are increased, meanwhile wafer fabrication gets more precise. In the near future, 3D semiconductor packaging technology will be the next trend.

We sincerely appreciate the continued trust from our customers as well as support from our business partners. The EBARA Group will respond to requests and solutions from our customers and provide equipment and components that will be required in the state-of-the-art semiconductor industry.

The EBARA Group aims to contribute to the achievement of the Sustainable Development Goals (SDGs) by addressing material issues identified in its long-term vision and executing the medium-term management plan to increase corporate value.

* Chemical Mechanical Polisher

EBARA Precision Machinery Europe (EPME) is part of the Japanese EBARA Group and employs approximately 190 people in Europe. The portfolio includes dry and turbo molecular vacuum pumps as well as gas abatement systems. In addition, EPME sells state-of-the-art CMP tools, wafer bevel polishing and substrate plating systems. In Europe, EPME has a central warehouse and two overhaul centres for vacuum pumps in the United Kingdom and in Germany. EBARA is No 1 on the world market for wafer bevel polish systems and a strong No 2 on the world market for vacuum solutions and CMP tools. Our mission is innovative technology meets sustainability.

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