World Academy of Science, Engineering and Technology International Journal of Mechanical and Industrial Engineering Vol:16, No:02, 2022

Two Major Methods to Control Thermal Resistance of Focus Ring for Process Uniformity Enhance

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Abstract : Recently, the semiconductor industry is rapidly demanding complicated structures and mass production. From the point of view of mass production, the ETCH industry is concentrating on maintaining the ER (Etch rate) of the wafer edge constant regardless of changes over time. In this study, two major thermal factors affecting process were identified and controlled. First, the filler of the thermal pad was studied. Second, the significant difference of handling the thermal pad during PM was studied.

Keywords: etcher, thermal pad, wet cleaning, thermal conductivity

Conference Title: ICPMML 2022: International Conference on Predictive Maintenance and Machine Learning

Conference Location : Tokyo, Japan Conference Dates : February 24-25, 2022