

“Industry’s first ever, Flatness Measuring System for Ø450mm Silicon Wafer”

As the needs for a larger diameter silicon wafer has become inevitable, Kuroda Precision Industries Ltd has been involved over the years in the development of Flatness Measuring System for Ø 450 mm silicon wafers*1.

We are proud to finally introduce “NANOMETRO 450TT” to the market followed by the automated wafer attaching and detaching system which goes with the system.

NANOMETRO 450TT is the next generation version of NANOMETRO 300TT that is already established in the market and already known with the gadgets such as Air-Slide and Air Bearing of both high rigid and high-precision nature.

This system is equipped with a software (conforming to industry standards and SEMI regulations) which enables evaluations and analyses and has proven to be an answer to many wafer manufacturers and wafer related equipment makers in examining the flatness and SORI profile of the outputs being produced.

Kuroda Precision Industries Ltd has the systems available, including the new NANOMETRO 450TT, for those who wish to examine its functionality, accuracy and the benefits they will provide.

Both the NANOMETRO 450TT and NANOMETRO 750F, another Flatness Measuring System, allow the wafer deflection to be measured and inspected under different conditions. For instance, how and where the wafers are supported and held to the mounting fixture.

While keeping in mind the future direction for further miniaturization of the Design Rules, Kuroda Precision Industries Ltd, will pursue the possibilities towards the systems’ higher enhanced performance and higher precision that need to be met with the requirements of the industry.

Kuroda Precision Industries Ltd is committed to the future development of the industry itself both in terms of software and hardware and is prepared to accommodate new generation of the accessory products such as Wafer Handling Devices and Wafer Carriers.

*1

The size of Silicon Wafers is becoming larger every decade. Given that, the current 300 mm diameter will soon be replaced by 450 mm. For the manufacture of semiconductors, the semiconductor device industry is aiming by towards 2012 for some pilot run with their own products. According to its promoting group ISMI (International Sematech Manufacturing Initiative), ISMI is asking the semiconductor and its related products manufacturers for support for development and are even offering 450 mm wafers for test purposes.

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