

Hitachi Kokusai Electric

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Hitachi Kokusai Electric Inc.

Hitachi Kokusai Electric Launches A New High Productivity Single Wafer Plasma Nitridation/Oxidation Tool Named "New MARORA"

Tokyo, Japan -- Hitachi Kokusai Electric Inc. today announced a new high productivity single wafer plasma nitridation/oxidation system named "New MARORA(*1)". The New MARORA system incorporates a newly developed high throughput platform which offers dramatically improved productivity compared with conventional plasma nitridation/oxidation tools.

1. Background

Semiconductor industry technology is rapidly advancing and currently moving to 45nm for mass production. Semiconductor process technology continuously requires miniaturization and higher productivity for better device performance cost improvements. The "New MARORA" system offers dramatically improved productivity utilizing a newly developed high throughput platform. With Hitachi Kokusai's already field-proven nitridation/oxidation plasma chamber, New MARORA enables tightly controlled nitridation and ultra thin oxidation with high throughput.

2. Features

1. High Throughput: Doubled productivity compared with conventional solutions
2. MMT(*2) Plasma Source: Improved uniformity and very low temperature electron plasma at wafer surface (~1eV)
3. Wide Range of Process Temperatures: Newly developed high temperature heater
4. Expanded Process Applications: Selective oxidation on silicon (no oxidation on metal material) in addition to plasma nitridation/oxidation
5. Very High Uptime with Extremely Low Maintenance Down Time
6. Environmental Friendly Design: Low power consumption and low emission

(*1) "MARORA" is registered trade mark of Hitachi Kokusai Electric Inc.

(*2) MMT: Modified Magnetron Type Plasma

About Hitachi Kokusai Electric Inc.

Hitachi Kokusai Electric Inc. is a multi-national corporation with close to \$2 billion in revenue, holding solid market positions in semiconductor equipment, wireless communications and broadcasting and video. The Semiconductor Equipment Group is focused on the movement to larger wafer sizes and shrinking geometries, achieving success by increasing market share and customer base expansion while providing advanced solutions to world markets.

About Kokusai Semiconductor Equipment Corporation

Kokusai Semiconductor Equipment Corporation (KSEC) provides comprehensive North American operations for its parent company, Hitachi Kokusai Electric - a premiere global supplier of Semiconductor Manufacturing Equipment. KSEC is headquartered in San Jose, California and has a strategic parts, service and training facility in Vancouver, Washington.