

# Hitachi Kokusai Electric

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Hitachi Kokusai Electric Inc.

## Hitachi Kokusai Electric Launches New Single Wafer Dry Strip Tool "TANDUO"

Tokyo, Japan -- Hitachi Kokusai Electric Inc. today announced a new leading edge single wafer dry strip system named "TANDUO(\*1)", which is uniquely suited for advanced flash, DRAM and logic applications that require high productivity and low defectivity.

TANDUO is the newest of the dry resist systems and replaces its predecessor, the Lambda series dry strip system which has gained wide acceptance by many semiconductor device manufactures.

### 1. Background

As device manufacturing becomes increasingly more complex and cost sensitive, the market requires a very special tool like TANDUO which provides solutions designed to meet very demanding customer needs. TANDUO offers dramatically improved throughput using a totally redesigned ultra high throughput platform. Incorporating Hitachi Kokusai's mass production-proven Lambda series plasma source, TANDUO enables ultra high speed ashing with minimum plasma damage while providing the lowest CoO(\*2) as compared to competitive solutions.

### 2. Features

1. Greatly improved throughput using a newly developed wafer handling automation system allowing for a maximum of >270 WPH
2. Very reliable hardware design improving tool uptime to >98%
3. Utilizing a smaller footprint combined with improved tool availability and maintainability will result in 15% CoO reduction
4. High speed ashing is accomplished using the same helical resonator type plasma source proven on the Lambda series dry strip systems resulting in damage free wafers.
5. Other applications include high throughput single wafer annealing

(\*1) TANDUO is a registered trademark or trademark of Hitachi Kokusai Electric Inc.

(\*2) CoO (Cost of Ownership): Total manufacturing cost per wafer"

**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.