



ArF Scanner

# NSR-S322F

Employs the Proven *Streamalign* Platform

Delivers Enhanced Overlay Accuracy and Productivity



# Employs the Proven *Streamalign* Platform

## Delivers Enhanced Overlay Accuracy and Productivity

The NSR-S322F ArF scanner delivers enhanced overlay accuracy and productivity by employing the proven *Streamalign* platform. The S322F meets the need for higher accuracy and stable volume manufacturing at a customer site.

# NSR-S322F

### Performance

|                        |  |
|------------------------|--|
| Resolution             | $\leq 65$ nm   |
| NA                     | 0.92   |
| Exposure light source  | ArF excimer laser (193 nm wavelength)  |
| Reduction ratio        | 1:4  |
| Maximum exposure field | 26 mm × 33 mm  |
| Overlay                | $\leq 5$ nm (MMO <sup>*1</sup> )   |
| Throughput             | $\geq 230$ wafers/hour (96 shots), $\geq 250$ wafers/hour (96 shots) <sup>*2</sup> |

\*1 Mix and Match Overlay: machine-to-machine overlay accuracy (NSR-S322F#1 to S322F#2)

\*2 When option is applied

### Key Features of the *Streamalign* Platform

#### • Bird's Eye Control Enabling superior yield

- Hybrid encoder/interferometer system delivers optimal stage performance.
- Dramatically improves accuracy and stability
- Provides superior focus control
- Improved overlay capabilities of 2.0 nm or less

#### • Stream Alignment

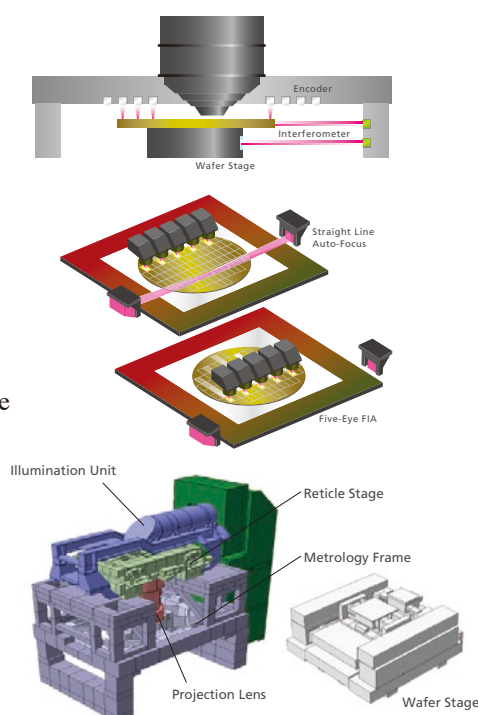
##### Enabling optimal affordability

- Straight Line Auto-Focus generates a dense map of the wafer surface to enhance focus control (using wider AF beam span).
- Enables increased alignment sites with minimal productivity impact using Five-Eye FIA
- Greatly reduces wafer overhead time
- Throughput capabilities of 230 WPH or more

#### • Modular<sup>2</sup> Structure

##### Enabling rapid production ramps

- Simplifies maintenance by the modular design
- Provides optimal uptime with modular design and individual components replacement
- Extendible platform enables multigenerational use



**CLASS 1 LASER PRODUCT**



**WARNING**

TO ENSURE CORRECT USAGE, READ MANUALS CAREFULLY BEFORE USING YOUR EQUIPMENT.

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