



ArF Scanner

NSR-S322F

Employs the Proven *Streamalign* Platform

Delivers Enhanced Overlay Accuracy and Productivity



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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	≤ 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	≤ 5 nm (MMO ^{*1})
Throughput	≥ 230 wafers/hour (96 shots), ≥ 250 wafers/hour (96 shots) ^{*2}

*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

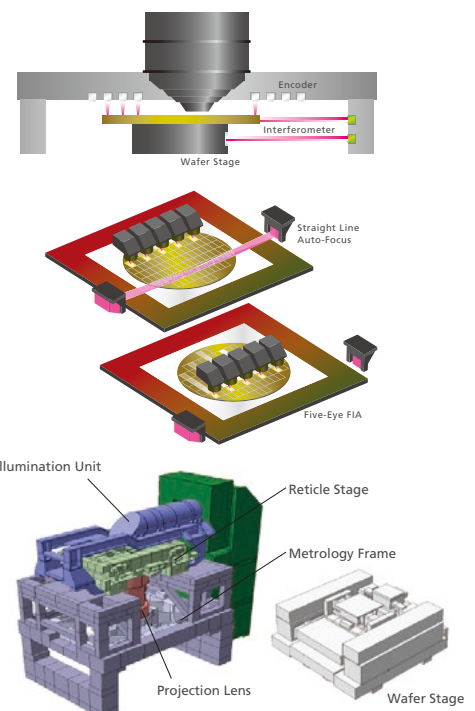
Enabling optimal affordability

- 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

• Modular² 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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