

i-line Stepper

NSR-SF155 Throughput of More than 200 Wafers per Hour



High Overlay Accuracy and High Throughput with Skyhook Technology and Higher Speed Wafer Stage

i-line Stepper NSR-SF155

The NSR-SF155 i-line stepper is suitable for production of a wide range of semiconductor devices. The NSR-SF155 utilizes Skyhook Technology, which enables the projection lens to be suspended from the body and away from the floor, greatly reducing vibration levels. With its increased wafer stage speed, the NSR-SF155 delivers throughput of more than 200 wafers per hour for 300 mm wafers.

Performance	
Resolution	≤ 280 nm
Resolution	
NA	0.62
Exposure light source	i-line (365 nm wavelength)
Reduction ratio	1:4
Maximum exposure field	26 mm × 33 mm
Overlay	$\leq 25 \text{ nm} (\text{SMO}^{*1})$
Throughput	\geq 200 wafers/hour (300 mm wafer, 76 shots), compatible with 200 mm wafer

*1 Single Machine Overlay: machine-to-self overlay accuracy

Key Features

• Superior Throughput

Combining the optimal stepper platform, Skyhook Technology, and a faster wafer stage has greatly reduced vibration and increased throughput. The NSR-SF155 boasts superior throughput of more than 200 wafers (300 mm) per hour.

• High Overlay Accuracy

The NSR-SF155 employs the Skyhook platform and a stage countermass which, together with heat countermeasures in the chamber achieved by revising the air conditioning duct layout, result in an overlay accuracy of within 25 nm.



CLASS 1 LASER PRODUCT

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

The export of this product is controlled by Japanese Foreign Exchange and Foreign Trade Law and International export control regime. It shall not be exported without authorization from the appropriate governmental authorities.

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