



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

### Key Features

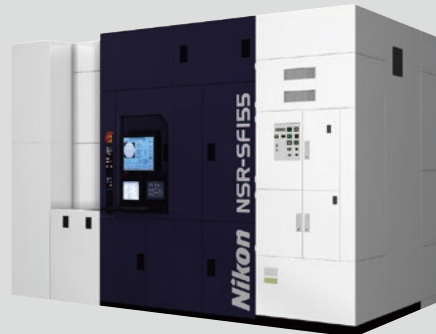
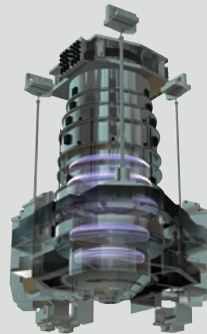
#### • Superior Throughput

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 countermeasure 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.

#### Skyhook mechanism



CLASS 1 LASER PRODUCT



#### WARNING

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.

Performance and equipment are subject to change without any notice or obligation on the part of the manufacturer. Products and brand names are trademarks or registered trademarks of their respective companies. February 2024

©2024 NIKON CORPORATION

#### Nikon Corporation Precision Equipment Group Marketing Department

Shinagawa Intercity Tower C, 2-15-3, Konan, Minato-ku, Tokyo 108-6290, Japan  
Tel: +81-3-6433-3639

#### Nikon Precision Inc.

1399 Shoreway Road, Belmont, CA 94002-4107, U.S.A.  
Tel: +1-(650)-508-4674

#### Nikon Precision Europe GmbH

Robert-Bosch-Strasse 11, D-63225 Langen, Germany  
Tel: +49-6103-973-0

#### Nikon Precision Korea Ltd.

2, Singal-ro 124beon-gil, Giheung-gu, Yongin-si, Gyeonggi-do, 16968 Korea  
Tel: +82-31-288-5601

#### Nikon Precision Taiwan Ltd.

3F.-1, NO.28, Taiyuan Street, Zhubei City, Hsinchu County 302, Taiwan, R.O.C.  
Tel: +886-3-552-5888

#### Nikon Singapore Pte. Ltd.

18 Tai Seng Street #04-08, 18 Tai Seng, Singapore 539775  
Tel: +65-6559-3618

#### Nikon Precision (Shanghai) Co., Ltd.

11-12F, Tower 5, Crystal Plaza No. 36, Ping Jia Qiao Road, Pudong New District, Shanghai 200126, China  
Tel: +86-21-5899-0266

#### Nikon Precision Malaysia Sdn. Bhd.

No. 37-03-01, Ideal Golden Triangle, Jalan Dato' Ismail Hashim, 11900 Bayan Lepas, Penang, Malaysia  
Tel: +60-4-371-7830

<https://www.nikon.com/business/semi/>