

nSpec[®] Turbo

300mm High Volume Manufacturing AOI System



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Whatever the user's specific sample inspection requirements, Nanotronics provides a wide range of solutions for obtaining rapid results.

nSpec[®] Turbo is the ideal system for highly controlled, high volume manufacturing environments.

This system runs multiple scans sequentially. User-friendly software makes configuring recipes next to effortless and as needs evolve, recipes are easy to save and modify.

This 300 mm design supports:

- HEPA air filtration
- Air ionizers
- Single or Dual Load Ports (200mm and / or 300mm)

Features:

- Automatic wafer handling
- Multiple resolution settings, ranging from 0.3 μm and greater
- Rapid scanning
- Customizable defect reports
- Flexible settings for single image capture and scans
- Variety of sample chucks to meet specific needs and manual loading applications
- Robust analysis for defect or feature of interest detection and classification
- Inspection and review procedures
- Multi-system synchronization
- Small footprint and minimal facilities requirements
- Rack mount controls
- Door interlocks
- Automatic prealignment by notch or flat
- Mapping for wafer presence, cross slot detection, and double stacked wafers
- 200mm cassette adapter for Load Port
- Filter wheel available (12 slot, 25mm filters)

SYSTEM

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Weight	1200 kg
Dimensions (W x D x H)	240 cm x 194 cm x 262 cm
Min. Vacuum Requirement	-21 in. Hg (-70 kPa)
Power Supply	208VAC, 15A, 50-60Hz
Min. Clean Dry Air	60PSI (415 kPa)

OPTICS

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Illumination Modes	Brightfield, Darkfield, DIC (Nomarski)
Light Source	White light LED (other options available)
Objectives	5x included, 1.25, 2.5, 10, 20, or 50x, user selectable (5 position turret)

STAGE

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Travel, typical Positioning	350 mm X and Y direction Linear servo motors with closed loop encoders
Construction	Precision ground raceways and high rigidity linear guideways
Mounting Platform	Isolated granite platform integrated into cabinet system
Centered Load Capacity	12.5 kg

OPTIONS

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SECS/GEM	
OCR: Frontside and/or Backside available	
Air Ionizers^o	
E-84 Interface available	
Light Curtains available	
N₂ Purge Load Port available	

