## ARGOS matrix 200/300

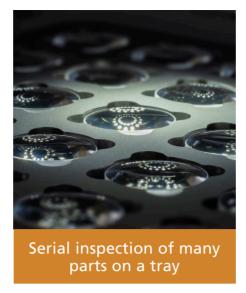


automated scratch/dig inspection



- **O FULLY AUTOMATED SURFACE INSPECTION**
- **O VERSATILE FROM MICRO-OPTICS TO WAFERS**
- **OBJECTIVE AND REPRODUCIBLE**







and detailed reports

## **BENEFITS**

Large flexibility: any shape from aspheric micro lenses to 12" wafers can be inspected.

**Automated serial inspection without** user interaction reduces cost and improves process quality.

Objective test results with clear decisions and detailed information on relevant defects and statistics.

## **FUNCTIONALITY**

ARGOS matrix is equipped with a high-resolution camera and a switchable dark-field illumination. Images with different lighting configurations are fused for reliable defect detection with high repeatability. A precision 12" stage allows inspection of large numbers of parts in a tray. Our stitching mode allows inspection of large partsflat or curved. PDF test reports with clear decision and detailed information are automatically created.

## **SPECIFICATIONS**

ARGOS measurement head	ARGOS matrix S	ARGOS matrix M	ARGOS matrix L
Smallest ISO 10110-7 size grade	0.004 (digs), 0.0025 (scratches)	0.0063 (digs), 0.004 (scratches)	0.01 (digs), 0.0063 (scratches)
Smallest visible defects*	< 1 µm	< 2 µm	< 3 µm
Reproducibility of the size measurement*	< 1.5 μm	< 3 μm	< 4.5 μm
Inspection example*: 8" wafer	12 min	4 min	2 min
Inspection example*: Lens, D=30mm, curvature R=30mm	4 min	2 min	15 s
Maximum inspection area / System size (LxWxH)	<b>ARGOS matrix 200</b> : 205 x 205 mm / 645 x 520 x 700 mm <b>ARGOS matrix 300</b> : 305 x 305 mm / 845 x 720 x 700 mm		
Surface materials	Polished, uncoated or coated surfaces with optical quality, e.g. glass, semiconductors, metals, plastics, crystals, other surface types on request.		

<sup>\*</sup>for details see technical specification document

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