

Wafer Chip Outer Appearance Checker OVS-5000W

Employing two optical cameras, the machine has improved the throughput by segment inspections of wafers. It supports detection of different types of defects by changing the optical specifications.



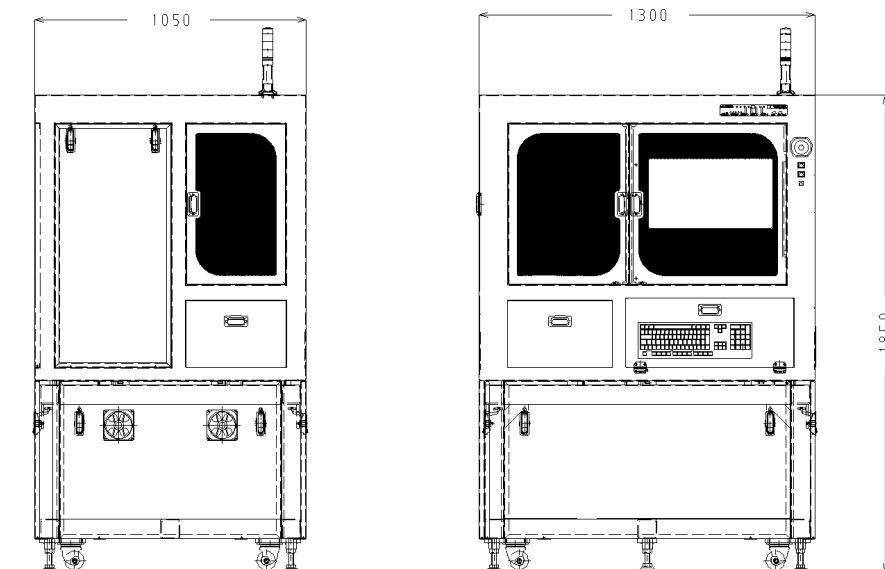
Features

- 1) Low cost, high performance.
- 2) Active autofocus can follow large level differences.
- 3) "Segment imaging" allows imaging of a large-size chip to be segmented so that even extremely small defects can be detected.
- 4) The "adaptive learning software" greatly improves the reproducibility by following the lot differences.
- 5) "CPU+GPU core processing distributed parallel processing" improves the throughput very much.

Specifications

No	Item	OVS-5000W (High performance model)	OVS-2500
(1)	Supported product	System LS's, MEMS's, power devices, LED's and compound semiconductors	Same as left
(2)	Wafer size	Up to 8 inches (Option: 12 inches)	Up to 6 inches (Option: 8 inches)
(3)	Defect	Chipping, cracks, defective patterns, uneven coloring, foreign matters, etc.	Same as left
(4)	Camera	4 million pixels, color (2 cameras)	2 million pixels, color (3CCD)
(5)	Lighting	Coaxial vertical illumination and oblique light ring illumination	Chosen by objectives
(6)	Inspection magnification	2.5x, 5x and 10x (with active autofocus)	1.25x, 2.5x, 5x and 10x
(7)	Resolution	2.2 $\mu\text{m}/\text{pixel}$ to 0.55 $\mu\text{m}/\text{pixel}$	3.52 $\mu\text{m}/\text{pixel}$ to 0.44 $\mu\text{m}/\text{pixel}$
(8)	Processability*	Approx. 3 minutes/(8 inches) 2.2- μm resolution	Approx. 4 minutes/(6 inches) 1.76- μm resolution
(9)	Option	Marking function, communications specifications	Same as left
(10)	Machine dimensions	1,300 (W) x 1,050 (D) x 1,900 (H) mm	1,050 (W) x 900 (D) x 1,650 (H) mm
(11)	Machine weight	1,200 kg	800 kg
(12)	Control mode	PC control	Same as left
(13)	Utility power supply	200 VAC, 3 phases, 50/60 Hz, 20 A Air: 0.5 MPa	Same as left
(14)	Use environment	Temperature: 25 \pm 10°C; Humidity: 50 \pm 20%	Same as left
(15)	Machine color	Munsell 10Y7/1 (baking finish)	Same as left

External View



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