

# CesiStar Series AOI inspection machine

The TV series AOI Inspection machine is a fully automated 3D optical inspection machine for semiconductor packaging inspection. It offers  $5\mu$ m@3 $\sigma$  accuracy and supports package types such as FCBGA, Memory, and POP. Capable of 6-side and top/bottom 2D/3D inspection, it handles chip sizes from  $2\times2$  to  $120\times120$  mm. Integrated with high-precision 3D inspection, high-speed sorting, and intelligent defect classification, it achieves up to 60K UPH to meet the demands of high-accuracy, high-throughput inspection.



### **Key Features**



#### **High Precision**

Supports  $5\mu m@3\sigma$  3D inspection with top/bottom multi-dimensional detection; minimum defect size detectable is  $20\mu m$ .



#### **High Efficiency**

Supports  $4 \times 14$  nozzles with throughput up to 60K UPH; compatible with Tray to Tray and Tray to Reel; product changeover in under 20 minutes.



#### **High Flexibility**

Compatible with chip sizes from 2×2 to 120×120 mm; supports multiple package types, as well as top-side 3D/IR and micro-crack inspection.



#### **High Adaptability**

Supports 6-side inspection and intelligent defect classification; modular design enables adaptation to diverse processes and flexible line configurations.

## **Applications**





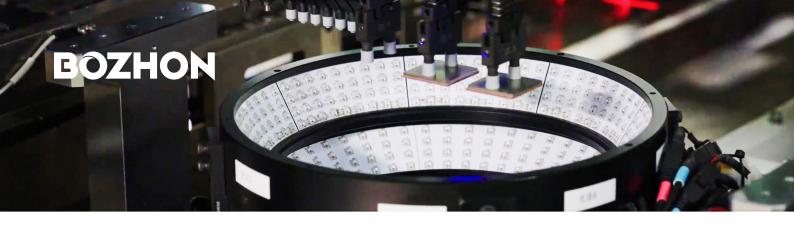






FCBGA/CSP/WLP

POP



# Defect inspection range

2D/3D/Ball/Lead/ **Pad Measurement** 









**Surface Defect** Inspection























**Optional Specialized Inspection Items** 

Capacitor Damage

Capacitor Height

# **Technical Specifications**

Standard:√ Not included:/ Optional: O

Specifications		TV6-15T		TV6-10T		
		TV6-15T	TV6-15TR	TV6-10T	TV6-10T-TC	TV6-10T-Plus
Loading and Unloading		Tray to Tray	Tray to Reel	Tray to Tray	Tray to Tray	Tray to Tray
Resolution		15μm	15μm	10μm	10μm	10μm
Chip Size		2x2-68x68mm	2x2-68x68mm	2x2-58x58mm	2x2-58x58mm	2x2-120x120mm
P&P Nozzles		2x14	2x14	2x14	2x14	2x14
Sorting Unit		1x4	1x4	1x4	1x4	1x4
Inspection Stations	Bottom 2D&3D	√	√	√	√	√
	Top 2D	√	√	√	√	√
	4-Side	√	√	√	√	√
	Top 3D	/	/	/	√	√
	Top AUX	/	/	/	√	0
	Bottom AUX	/	/	/	0	0
	Large-size:120×120mm	/	/	/	0	√
	Double Unit	√	√	√	√	√



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