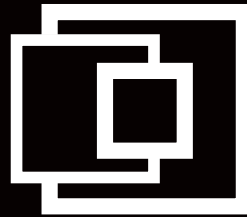
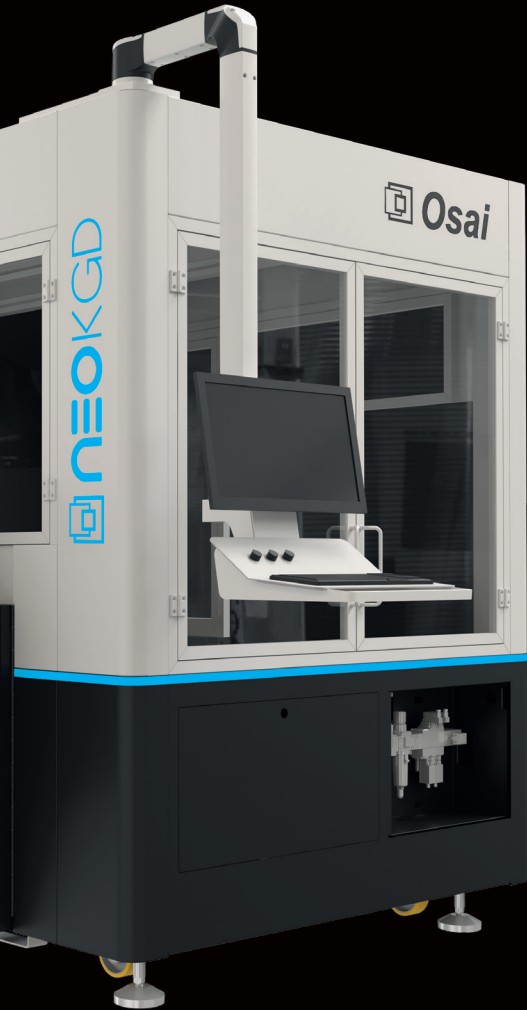
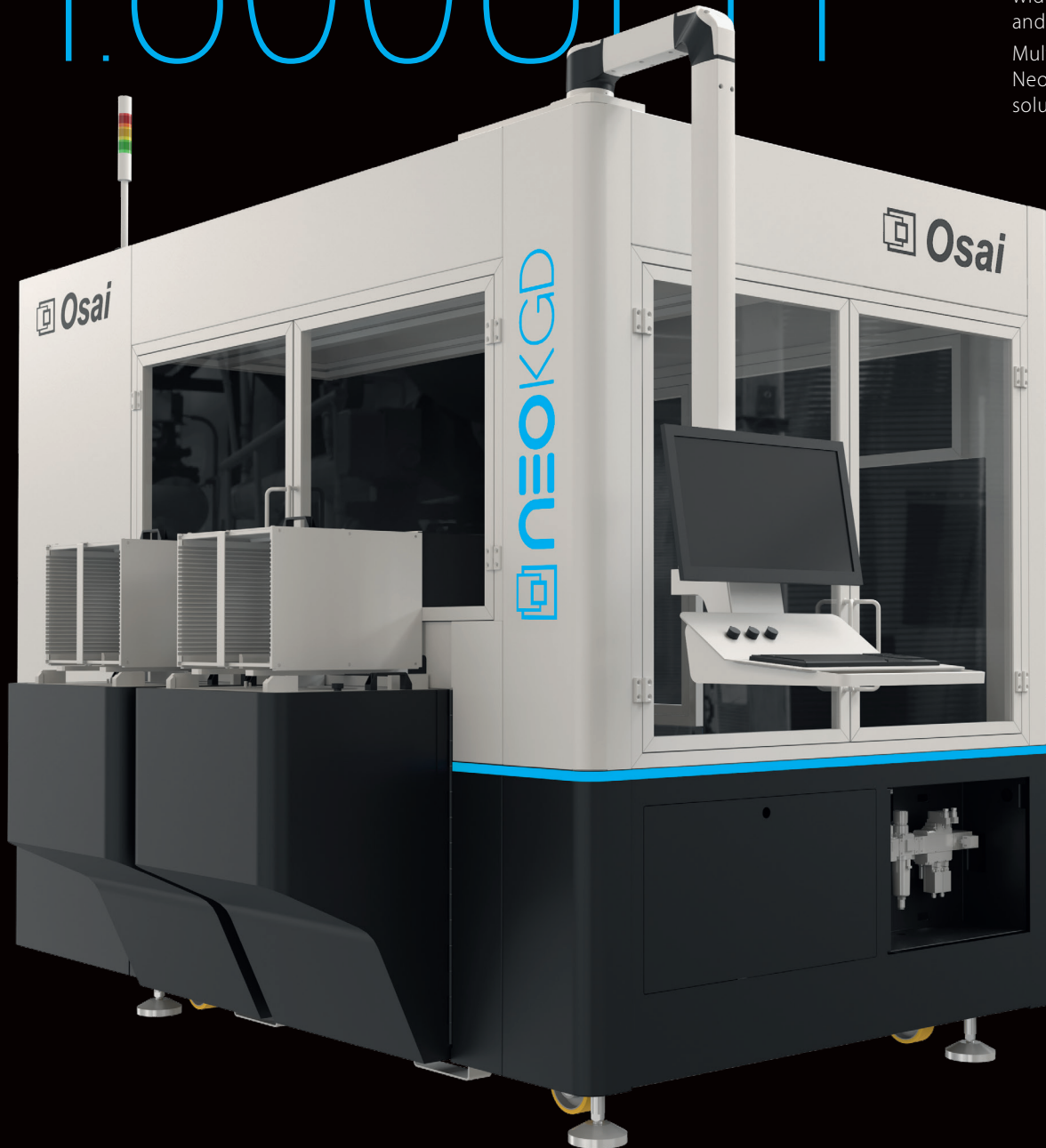


Osai Automation Systems



NEOKGD
KNOWN GOOD DIES TEST HANDLER

1.800UPH



Capable of handling and testing bare dies with a throughput of up to 1,800 UPH (units per hour) including the **Hi-speed** optical inspection systems (5s or 6s).

The bare dies are automatically handled to and from the diced wafer, contacted, and final tested at both **hot and ambient temperatures** (programmable range).

NeoKGD is a **standard platform** designed to accommodate the customer's needs through a wide matrix of available options. These options include test requirements, probing technology, and the selection of output and reject segregation media.

Multiple configurations, combined with a **compact footprint** and high throughput, make NeoKGD an effective test handler for reducing production costs of KGD devices and a reliable solution for the most challenging manufacturing needs.

KEYPOINTS

Input media: 6", 8" or 12" wafer frame

Output media:

Re-constructed wafer frame
2", 4" Waffle and Gel Pack
Tape & Reel
Jedec or Custom Tray form

Reject media:

BinBoxes
2", 4" Waffle and Gel Pack

Supported Tests: AC, DC, Hi-Pot Test

Temperature Control:

From Ambient up to Hot Temp (175°C)
Closed-loop Temperature Control
Accuracy $\pm 2^\circ\text{C}$ (up to 175°C)

Optical Inspection: 5s, 6s, Hi-Speed Capabilities

Probecard Features:


Automatic Alignment (Probe Needles and Die)
Automatic Cleaning
Embedded Locking System with ATE direct docking capability

Factory Integration:

SECS/GEM Interface
WaferMapManagement (according to the SEMI standards)
Lights-off concept ready (Robotization, AGVs)

Equipment KPIs:

Compact footprint
Overall Equipment Efficiency (OEE): $\geq 92\%$
Mean time between failures (MTBF): ≥ 1680 hours
Jam rate: $\leq 1:10k$
Conversion time between product/packages ≤ 15 mins
Mean time to assist (MTTA) in Production Mode : less than 3 minutes for hard jam only

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