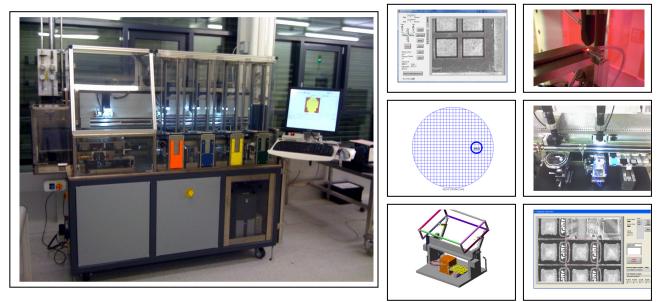


Peak Automation 11414 Cockleburr Road Roanoke, Texas 76262 (214)-215-3751 Fax (682)-237-4700 www.peakautomation.com





## Maximum flexibility at high speed

The ALM-W Die Pick & Place Handlers are automated work stations designed for processing any type of miniature to medium size devices.

The heart of the ALM-W is its servo driven linear actuator that transports and end effector at high speeds to an unlimited number of exact locations with extremely precise repeatability. Work space width varies from 760mm up to 2280mm to perfectly match your process requirements.

Most applications use multiple vision alignment for extreme pick & place precision. The overhead gantry design allows the machine to execute processes front-to-back through the machine, or side-to-side. Almost any type of process can be integrated including assembly, testing, laser mark, vision inspection, sorting, and packaging. The specifications section lists many of the processes that can be integrated with the ALM-W.

Alignment fixturing is available that allows the user to interchange process modules without having to re-align. In addition, utility plug-ins permit true plug-n-play change-overs.

The ALM-W combines the flexibility for processing prototypes and varied product mix, with the high speed and accuracy for processing high volumes.

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# **SPECIFICATIONS**

#### Part Input / Output Configurations PART INPUT METHODS PART OUTPUT METHODS $\geq$ Vibratory feeder Bulk bins – Sorted $\triangleright$ Tube stacker - manual or auto-stacked ≻ Tube stacker - manual or auto-stacked ≻ $\triangleright$ Wafer film frame $\triangleright$ Conveyor through or lateral to machine. Conveyor through or lateral to machine. ⊳ Tape & reel Tape & reel Trays / Waffle pack Trays / Waffle packs Film frame output Processes Available for Integration Vision inspection Ink marking ۶ Electrical testing - Cable or Board dock $\triangleright$ Packaging $\triangleright$ Die sorting Media Transfer $\triangleright$ Laser marking Hot/Cold Testing Manipulator Specifications Servo actuator stroke 760mm up to End Effectors / Grippers will be provided that 2280mm. Accuracy: Micron resolution with vision match the part to be processed in the machine. $\triangleright$ Multi-part end effectors can be used to duplicate alignment. Maximum Linear Speed 200"/s walking beam motion and improve throughout. In ≻ (5000mm/s) addition. Maximum Acceleration 5 g (49m/s 2) Controls > PLC controller. Extra I/O available The LCD Color Touchscreen incorporates > LCD Color Graphics Touchscreen. graphics and pictures for ease of use. It comes Full featured MMI: Passwords, graphic with a variety of process modules precounter arrays, pull-down menus, programmed, which the user can select when graphics, bit-map images, pass/fail/status changing configurations. The PLC has spare I/O indicators, alarm history, diagnostic available and can add more if needed to integrate screen, manual activation screen more complicated processes. Safety Emergency Stop buttons Light curtain optional Interlocked Lexan safety enclosure CE Certification available Dimensions Width 32" (813mm) up to 92" (2333mm) The ALM-W upper frame can be removed from its Depth 25.3" (643mm) up to 36" (914mm) modular floor standing cabinet, and can be placed Height 64" (1626mm) w/ base cabinet on an existing table or integrated with an existing Height 75" (1905mm) w/ base / light pole conveyor line through the machine. Height 28" (711mm) w/o base cabinet Dimensions do not include integrated processes. Utilities / Environment Power: 220-240 VAC 1-phase, 20 Clean room certified option. $\geq$ $\triangleright$ The ALM-W floor standing cabinet is Amp provided with leveling feet and

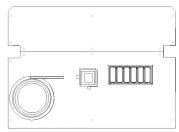
CDA/N2: 80-100 psi @ 3 cfm.  $\geq$ Internal regulator & SOV provided.

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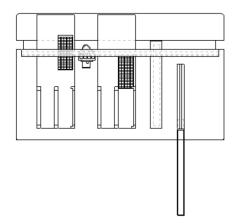
casters.

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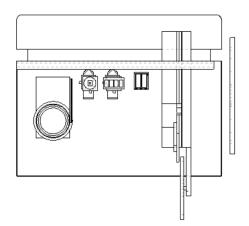
# **EXAMPLE CONFIGURATIONS**



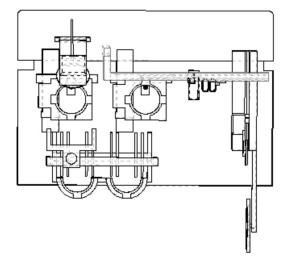
Input: Bulk Vibratory feeder <u>Process</u>: Test <u>Output</u>: 6 bulk bins.



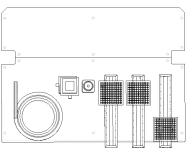
Input: Jedec Tray Stacker <u>Process</u>: Quad Test <u>Outputs</u>: Jedec Tray Stacker, Single tube, Tube stacker



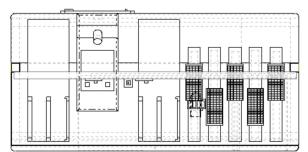
<u>Input</u>: Bulk Vibratory Feeder <u>Process</u>: Orient, Quad Test <u>Outputs</u>: Two Bulk bins, Tape & Reel



Input: Wafer Film Frame <u>Processes</u>: Wafer Prober/Mapper, Vision <u>Output</u>: Two Bulk Bins, Tape & Reel



Input: Bulk Vibratory Feeder <u>Processes</u>: Test, Vision <u>Output</u>: Three waffle packs



Input: Jedec Tray Stacker <u>Processes</u>: Hot Chamber, Hard dock Test, Vision <u>Output</u>: Jedec tray stacker, 5 Jedec trays

# ALM-W Flexible Die Pick & Place Handlers

### Additional Available Options:

- Direct Dock (Vertical/Horizontal)
- Hot/Cold testing chambers
- Multi-motor for improved logistics and UPH.
- Quad / Octal testing
- Vision lead inspect (2D or 3D)
- Multi-handler docking (Work cells / Conveyor lines)

### **Device Application Examples:**

BGA	CPGA	HSOP
PGA	SOP	COB
CQFP	MLF/MLP	PLCC
SOT-xx	CFP	CSP
MCM	SC-xx	TO-xx
DIP	Micro-X	SOIC-xx
Chip cells	TSOP	TSSOP
Capacitors	MSOP	Fuses

### ALM-W with manual loading



Call us, or visit our website for more information on the ALM-W

## **Sales Representative:**

