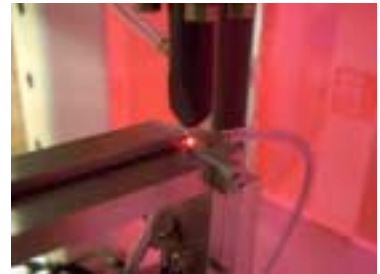




Peak Automation
800 Katy Road, Suite B
Keller, Texas 76248
(214)-215-3751
Fax (817)-482-1070
www.peakautomation.com

ALM-760

FLEXIBLE WORKSTATION



Maximum flexibility at high speed

The ALM-760 is an automated work station designed for processing any type of miniature to medium size parts.

The heart of the ALM-760 is the Optically Encoded 760mm Linear Motor that transports an end effector at high speeds to an unlimited number of exact locations with extremely precise repeatability.

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-760.

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-760 combines the flexibility for processing prototypes and varied product mix, with the high speed and accuracy for processing high volumes.

Call us, or visit our website for more information on the ALM-760.

800 Katy Road, Suite B Keller, Texas 76248
(214)-215-3751 Fax (817)-482-1070 www.peakautomation.com

SPECIFICATIONS

Part Input / Output Configurations

PART INPUT METHODS

- Vibratory feeder
- Tube stacker – manual or auto-stacked
- Manual placement to pick-up nest
- Conveyor through or lateral to machine.
- Tape & reel
- Trays / Waffle packs

PART OUTPUT METHODS

- Bulk bins – Sorted
- Tube stacker – manual or auto-stacked
- Conveyor through or lateral to machine.
- Tape & reel
- Trays / Waffle pack

Processes Available for Integration

- Assembly
- Electrical testing – Cable or Board dock
- Mechanical testing
- Laser marking
- Ink marking
- Packaging
- Media Transfer
- Ultrasonics

Manipulator Specifications

- Linear Motor Stroke 30" (760mm)
- Accuracy: Sub-micron resolution
- Maximum Linear Speed 200"/s (5000mm/s)
- Maximum Acceleration 5 g (49m/s²)

End Effectors / Grippers will be provided that match the part to be processed in the machine. Multi-part end effectors can be used to duplicate walking beam motion and improve throughout. In addition, Process Modules can also be placed on the linear motor to execute processes on parts moving through the machine.

Controls

- PLC controller. Extra I/O available
- LCD Color Graphics Touchscreen.
- Full featured MMI: Passwords, graphic counter arrays, pull-down menus, graphics, bit-map images, pass/fail/status indicators, alarm history, diagnostic screen, manual activation screen

The LCD Color Touchscreen incorporates graphics and pictures for ease of use. It comes with a variety of process modules pre-programmed, which the user can select when changing configurations. The PLC has spare I/O available and can add more if needed to integrate more complicated processes.

Safety

- Emergency Stop button
- Resistive Brake on Linear Motor quickly stops motion
- Interlocked Lexan safety enclosure
- Breaker switch for main power
- Fuses for subsystems

Dimensions

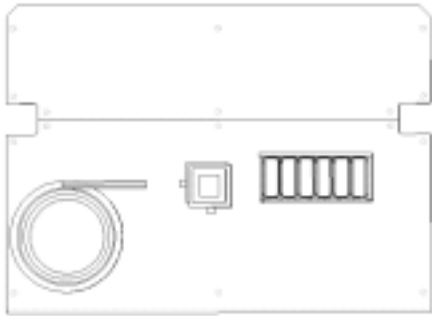
- Width 32" (813mm)
- Depth 25.3" (643mm)
- Height 64" (1626mm) w/ base cabinet
- Height 75" (1905mm) w/ base / light pole
- Height 28" (711mm) w/o base cabinet

The ALM-760 can be removed from its modular floor standing cabinet. It can be placed on an existing table or integrated with an existing conveyor line through the machine. Dimensions do not include integrated processes.

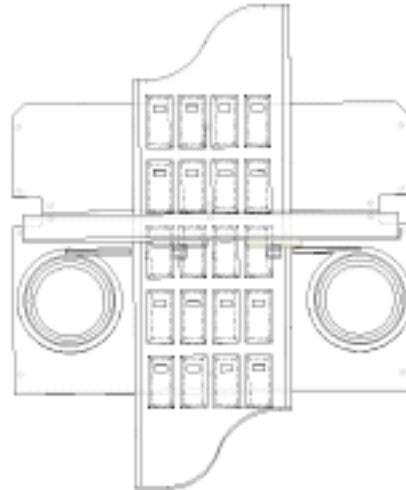
Utilities / Environment

- Power: 220-240 VAC 1-phase, 20 Amp
- CDA/N2: 80-100 psi @ 3 cfm
- Internal regulator / SOV provided with machine
- The ALM-760 floor standing cabinet is provided with casters

EXAMPLE CONFIGURATIONS



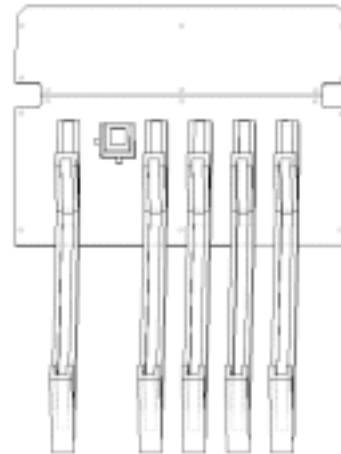
Bulk Vibratory feeder –to- 6 bulk bin outputs.



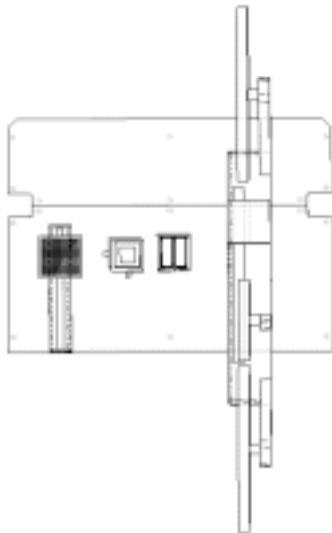
Dual pick & place head: Two Bulk vibratory feeders –to- conveyor through machine



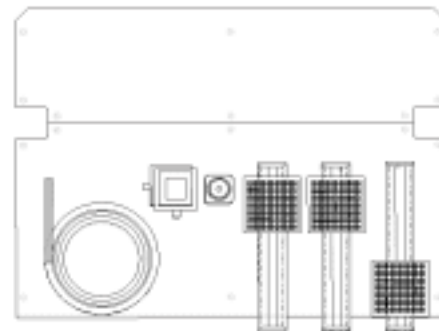
Bulk vibratory feeder –to- conveyor through machine



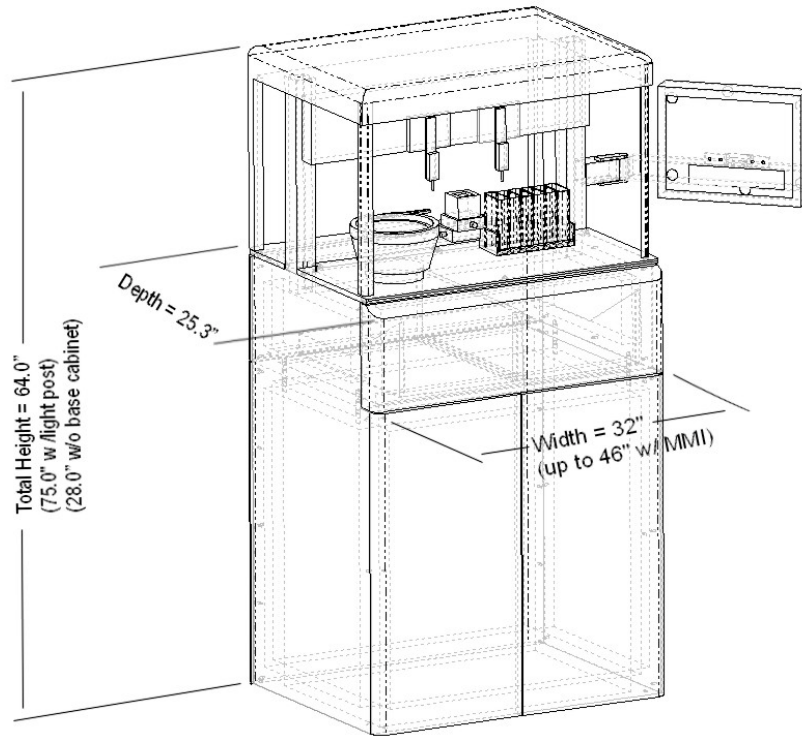
Auto-Stack Tube input –to- 4 auto-stack tube outputs



Tray –to- test –to- Tape & Reel



Bulk –to- test –to- vision –to- 3 trays.



Call us, or visit our website for more information on the ALM-760

Sales Representative:

