

LE40V Benchtop Automated Pick & Place with Vision Centering



Your Economic Solution for:

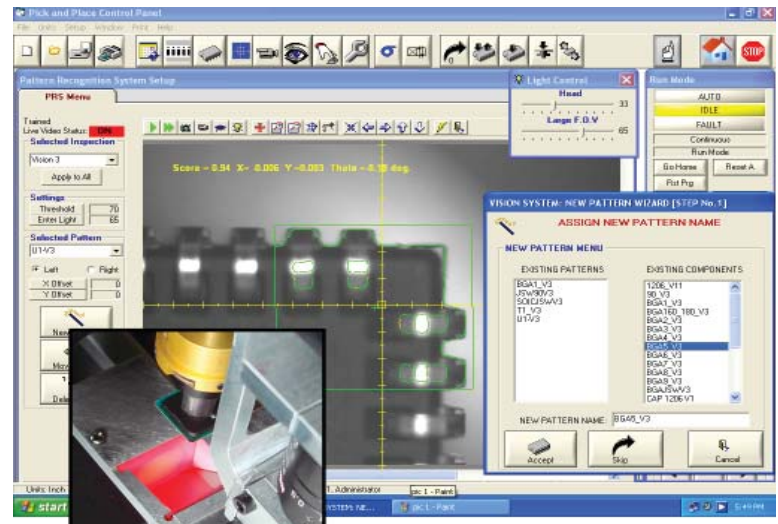
- Prototyping
- Product Development
- Short Run, High-Mix
- Manufacturing Applications

- Technologically Advanced Features in a Small, Space Saving Footprint
- Place virtually all SMT components with a benchtop unit.

- Increased Placement Accuracy with Cognex® Vision System and on-the-fly component centering
- User Friendly Programming and Operation

System Features

- Placement rates up to 3000 cph with accuracy $\pm 0.001''$
- Place virtually all SMT components from 0201 discreets, ultra micro BGAs, CSPs, and 15 mil pitch QFPs
- Friendly, easy to use Windows® based software for panelized boards, self-diagnostics, error recognition, fault monitoring and more
- Standard self-contained vacuum eliminates need for costly external air source
- Cognex® Vision System with fiducial correction, bad board mark, and pattern recognition
- Handle loose and tube components with the optional vibratory feeder with frequency and amplitude control
- Conveniently use short tape strips with our Unique SuperStrip™ feeders in 8, 12, 16, 24, 32, 44, and 56mm



Vision System

The BGA being centered appears on the software window. the LE40V vision centering pick & place system uses the full features of Cognex® Vision.

PRODUCT SPECIFICATIONS:

Max. Placement Rate	3000 cph
Typical Verifiable Placement Rate	1800 - 2500 cph
Placement Accuracy	±0.001" (0.025mm)
Smallest Component Capability	0201
Fine Pitch Capability	15 mil pitch (0.381mm)
Largest Component Size	2" (50mm) square body
Tape Feeders	8,12,16, 24, 32, 44mm (Electrical)
Tube Feeders (Bulk Also)	Sized to fit any component (Manual Frequency & Amplitude Control)
Bank Feeders for Taped Components	12 - 8mm Lanes
Matrix Tray Feeders	with Board/Matrix Tray Holders
Component Orientation Ø-Axis Motion	±360° in 0.18° steps
Z-Axis Max. Travel	1.5" (38mm)
Max. Travel Area	22" (560mm) x 22" (560mm)

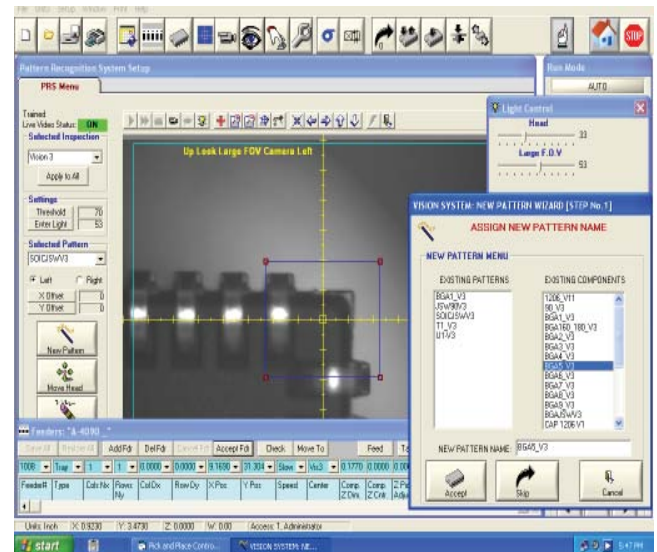
Vision Resolution	up to 10µm
Digital Light Control	up to 4 illuminations
Cognex® Vision System	standard 2 camera top and bottom
Automatic Tool Changer	up to 8 positions
Automatic fiducial & bad board mark recognition	Standard
Data Entry	Coordinate entry, "teach" mode, CAD download
Dispenser option (5, 10, & 30cc time & pressure)	up to 10,000 dots/hr
Automatic 4 Position Nozzle Changer	Standard
Compressed Air	Shop air required only for dispenser option, 60psi
Operating System	Microsoft® Windows® XP
System Dimensions	40" x 38" x 52" (1016 x 965 x 1320mm)
Weight	250 lbs (113kg)
Power	120 VAC, 50/60Hz (220-240 VAC available)

Options

- L-CL.....Cyberotics® Centering Laser
- L-LD.....Liquid Dispenser
- L-UCT.....CAD Editor Software
- L-TS.....Touch Screen with Enhanced Operator Interface

Feeder Options

- L-VF.....Vibratory Tube/Bulk Feeder
- L-T (tape feeders).....8, 12, 16, 24, 32, & 44mm
- L-BF-12 (bank feeders).....12 lane bank feeder for 8mm tape
- L-MBH.....Matrix Tray Holder
- L-SS-XX.....Dual Lane SuperStrip™ feeder for strips from 1" to 12" long
(XX indicates tape width: 8, 12, 16, 24, 32, 44, and 56mm)



The Windows™ based vision software is easy to learn and use, requiring minimal operator training.

Leasing Options Available...
For more information, phone us at 1-215-938-1000
or email us at info@apsgold.com



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