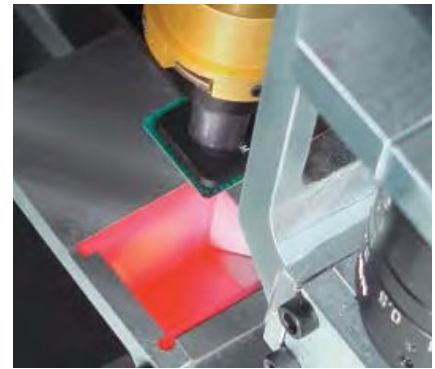


AUTOMATED PICK & PLACE WITH VISION CENTERING MODEL LS40V-LS60V

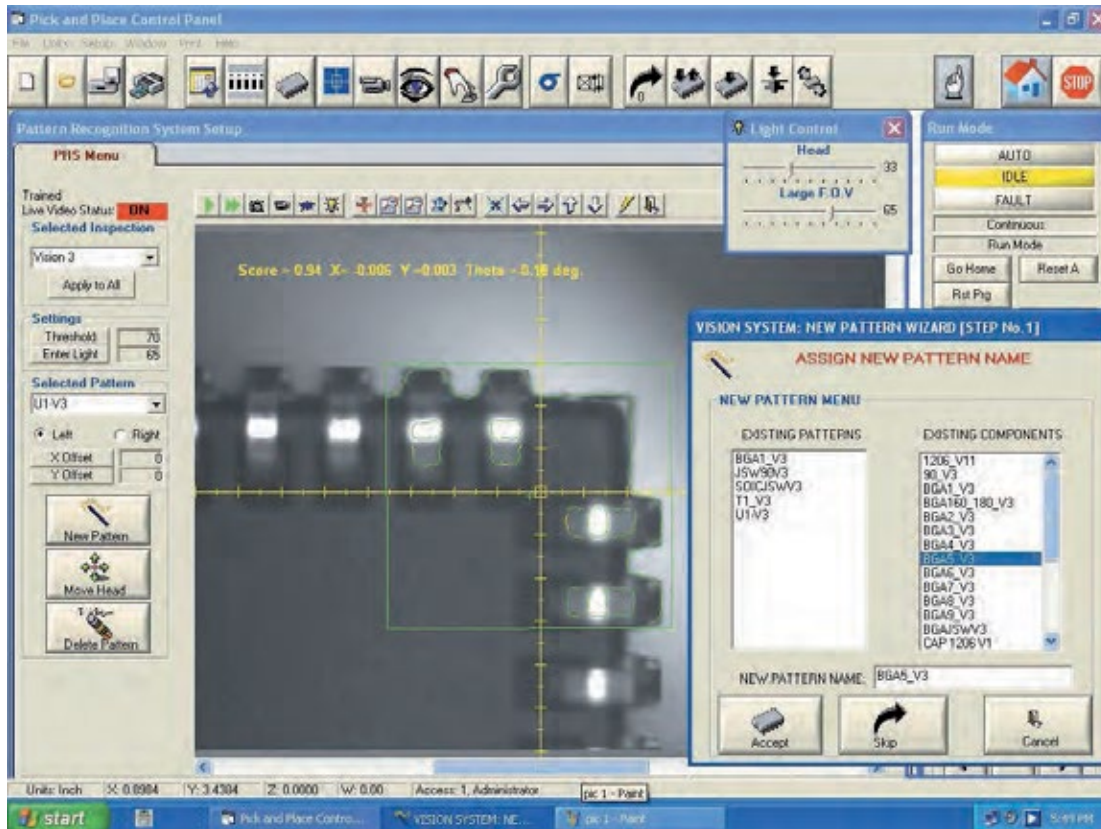


Components

The Cognex® vision assist allows accurate placement of 0201s, ultra micro BGAs, CSPs, QFPs and a wide range of virtually all SMT components.

System Features

- Placement rates up to 4800 cph
 - Placement accuracy to $\pm 0.001''$
 - Capable of placing fine pitch components down to 15 mil
 - Resolution of $2\mu\text{m}$ (0.0000787") and accuracy to $\pm 0.001''$
 - Cognex® vision system with fiducial correction, bad board mark and pattern recognition
 - Optional fluid dispenser
- Friendly, easy to use Windows® based software
 - Self-contained vacuum - no shop air needed
 - Automatic 4-position nozzle changer
 - Accessible, unobstructed work station for operator
 - Feeder capability: 144 8mm tape lanes utilizing bank feeders



The vision software is Windows® based to allow easy straightforward teach-in, requiring minimal operator training.

LS40V & LS60V SPECIFICATIONS	
Max Placement Rate	4800 cph
Typical Verifiable Placement Rate	2500-3600 cph
Placement Accuracy	±0.001"
Smallest Component Capability	0201s
Fine Pitch Capability	15 mil Pitch (0.381mm)
Largest Component Size	2" (50mm) Square Body
Tape Feeders	8, 12, 16, 24, 32, 44 mm (Electrical)
Bank Feeders For Taped Components	12 8 mm Lanes
Tube Feeders (Bulk Also)	8, 10, 14, 18, 24, 32 mm (Manual freq. Control)
Matrix Tray Feeders	With Board/Matrix Tray Holders
Component Orientation Ø-axis Motion	+ 360° in 0.18° Step
Z Axis Max Travel	1.5" (38 mm)
Max Travel Area LS40V	22"(X axis) x 22"(Y axis) (560 x 560 mm)
Max Travel Area LS60V	22"(X axis) x 32"(Y axis) (560 x 813 mm)

LS40V & LS60V SPECIFICATIONS	
System dimensions LS40V	40" x 38" x 53"h (1016 x 1067 x 1346.2 mm)
System dimensions LS60V	40" x 52" x 53"h (1016 x 1321 x 1346.2 mm)
Weight LS40V	370 lbs (168 kg)
Weight LS60V	430 lbs (195 kg)
Cognex® Vision System	Standard 2 Camera (Top and Bottom)
Vision Resolution	Up to 10µm
Digital Light Control	Up to 4 Illuminators
Automatic 4 Position Nozzle Changer	Standard
Operating System	Microsoft Windows™
Dispenser	Option, 5, 10 & 30cc Syringe Holder Type Up to 10,000 dots/hr
Power	120 VAC, 50/60Hz, (220-240 VAC Available)
Compressed Air	Shop Air Required for Dispenser Option Only, 60 psi
Automatic Fiducial & Bad Board Mark Recognition	Standard
Data Entry	Coordinate Entry, "Teach" Mode, CAD Download