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## ECONOMICAL AUTOMATED PICK AND PLACE

# L-SF40 Benchtop Automated Pick & Place

Your Economic Solution for:

- Prototyping
- Product Development
- Pilot Manufacturing
- Low Volume Production



### Features

- Provides the most economical solution in a fully automated pick and place bench-top system
- Capable of placing a wide range of components from 0201 discretés and SOICs to PLCCs and 20 mil pitch QFPs
- Placement rates up to 1800 cph
- Friendly, easy to use Windows® based software
- Tape reels & strips can be set up easily using the unique PIK-Strip™ feeders
- 8, 12, 16, 24, 32 & 44 mm PIK-Strip™ feeders available
- Capable of handling reels, cut tape, stick/tube and loose components

### Specifications

Max board area L-SF40 ..... 13.5" x 22" (343 x 560 mm)  
 Max travel area L-SF40 .... 22"(X axis) x 22"(Y axis) (560 x 560 mm)  
 Z axis max travel ..... 1.5" (38 mm)  
 Board thickness ..... .0.020" - 0.156" (0.5mm - 4.0 mm)  
 Typical verifiable placement rate ..... 1200-1800 cph  
 Placement accuracy ..... ±0.002"  
 Fine pitch capability ..... down to 20 mil pitch (0.508mm)  
 Smallest component capability ..... 0201 packages standard  
 Largest component size ..... 1.378" (35mm) square body  
 L-SF40 max no of lanes ..... .72 - 8mm tapes  
 PIK-Strip™ available ..... 8, 12, 16, 24 mm  
 Tube feeders (bulk also) ..... 8, 10, 14, 18, 24, 32 mm  
 Matrix tray feeders ..... with Board/Matrix tray holders  
 Component orientation Ø-axis motion ..... ± 360° in 0.18° step  
 System dimensions L-SF-40 ... 36" x 38" x 25"h (914 x 965 x 635 mm)  
 On-the-fly component centering ..... Centering fingers

Weight L-SF40 ..... 200 lbs (91 kg)  
 Board holding ..... Edge clamp w/optional board support tooling  
 Data entry ..... Coordinate entry, "teach" mode, CAD download  
 Vision system ..... Color CCD card camera  
 Automatic tool changer ..... 4 position  
 Operating system ..... Microsoft Windows  
 Dispenser option .... Time & pressure, clean dry air @ 80 psi required  
 Power. .... 120 VAC, 50/60Hz, 220-240 VAC available  
 Compressed air ..... 60 psi required for vacuum  
 Vacuum option ..... Self contained compressor, no air required

### Machine Options

L-SF-LD ..... Liquid dispenser  
 L-UCT ..... CAD editor software  
 L-SF-AFC ..... Auto fiducial recognition  
 L-TS ..... Touch screen with enhanced operator interface  
 L-SF-SCV ..... Vacuum - self contained  
 L-SF-SC ..... Lexan safety cover  
 L-NC4 ..... Extra 4 position nozzle changer - for 8 total positions  
 L-BHS ..... Board support  
 L-SF-SQ ..... Low force fine pitch squaring station option

### Feeder Options

L-PS8 PIK-Strip™ ..... 9x 8mm tape lanes  
 L-PS12/16 PIK-Strip™ ..... 4x 12mm & 2x16mm tape lanes  
 L-PS24 PIK-Strip™ ..... 4x 24mm tape lanes  
 L-MBH ..... Matrix tray holder  
 L-SS-XX ..... Dual lane SuperStrip™ feeder for strips up to 13.5" long  
 XX indicates tape width: 8, 12, 16, 24, 32, 44, and 56 mm