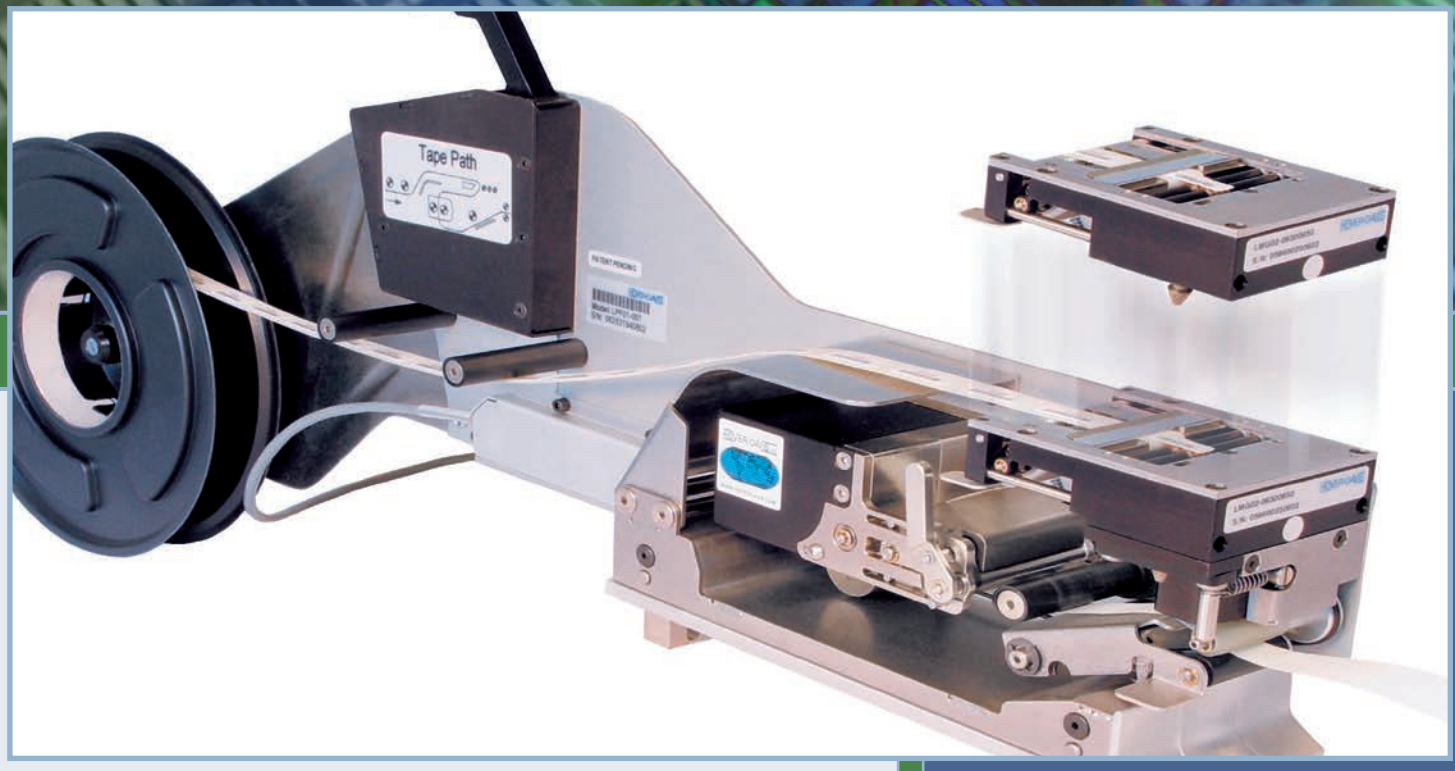
# LP Series label feeders




**Pick and place labels just like any other component with the LP Series label feeders.**

### Features:

- Automatically places labels using existing pick-and-place equipment
- Saves cost and offers labor saving benefits
- Eliminates need for custom label cells and saves floor space
- Fits on placement machine like any other feeder
- Flexible and modular solution for board labeling
- Eliminates hand placement error and costs
- Reliable, electronic operation

### LP Series Label Feeders, compatible with:

Assembléon®
Europlacer
Fuji®
JUKI®
MYDATA®
Panasonic®
Samsung™
SiPlace®
Universal®
YAMAHA®

HOVER-DAVIS
The Feeder Company

# a proven solution

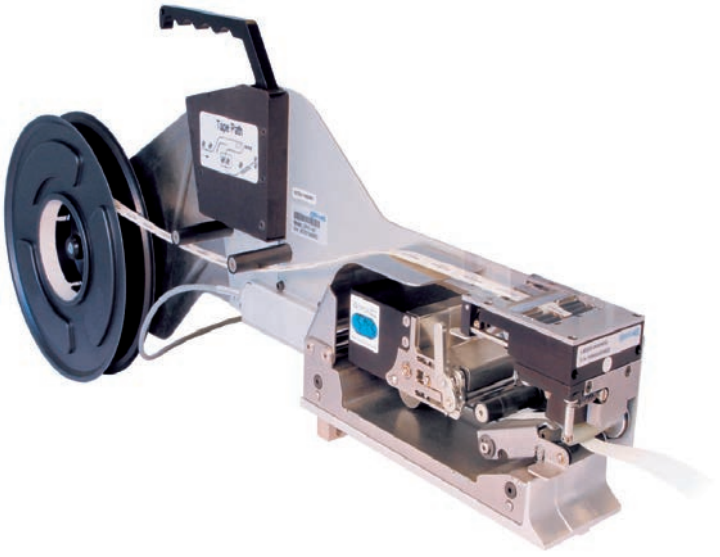
## Identification Requirements

PCBs need to be marked for a number of reasons – product identification, traceability and process flow control are just a few. By far the most common method used is the application of labels, usually by hand. This can add significantly to labor costs and placement accuracy can be questionable, especially if the label data is to be read automatically downstream, for instance in an AOI system. If a pleasing cosmetic result is required, hand placement should not be the method of choice.

Other identification methods are available: in-line label applicators being the favorite. These are expensive both to buy and to own. High initial purchase cost can be difficult to justify, ongoing maintenance also needs to be considered, as does the additional factory floor space they consume. Laser marking is another option and while this does facilitate real-time data marking, it also comes with compounded cost penalties and is not suitable for all applications.

## A Flexible Alternative

Why not use your existing placement equipment to place labels? Hover-Davis LP Series label feeder fits easily onto existing placement machines and presents the labels to the pick-and-place machine as if they were just another component. Program for the label as a leadless chip component and your work is done! No special programming or training required.



## Cost Effective

The LP approach is faster and more accurate than hand placement: Labels are placed at the normal machine rate and as accurately as normal components. The result is a far more cost effective solution to board marking.

# labels and more

## Modular Construction

A simple, modular approach to feeder design adds to the overall flexibility of the LP series – the concept involves two basic components.

First: the machine specific label presenter (LP) which provides the mechanical and electrical interface to the host machine.
(See LP Series Compatibility Matrix, Fig. 1).

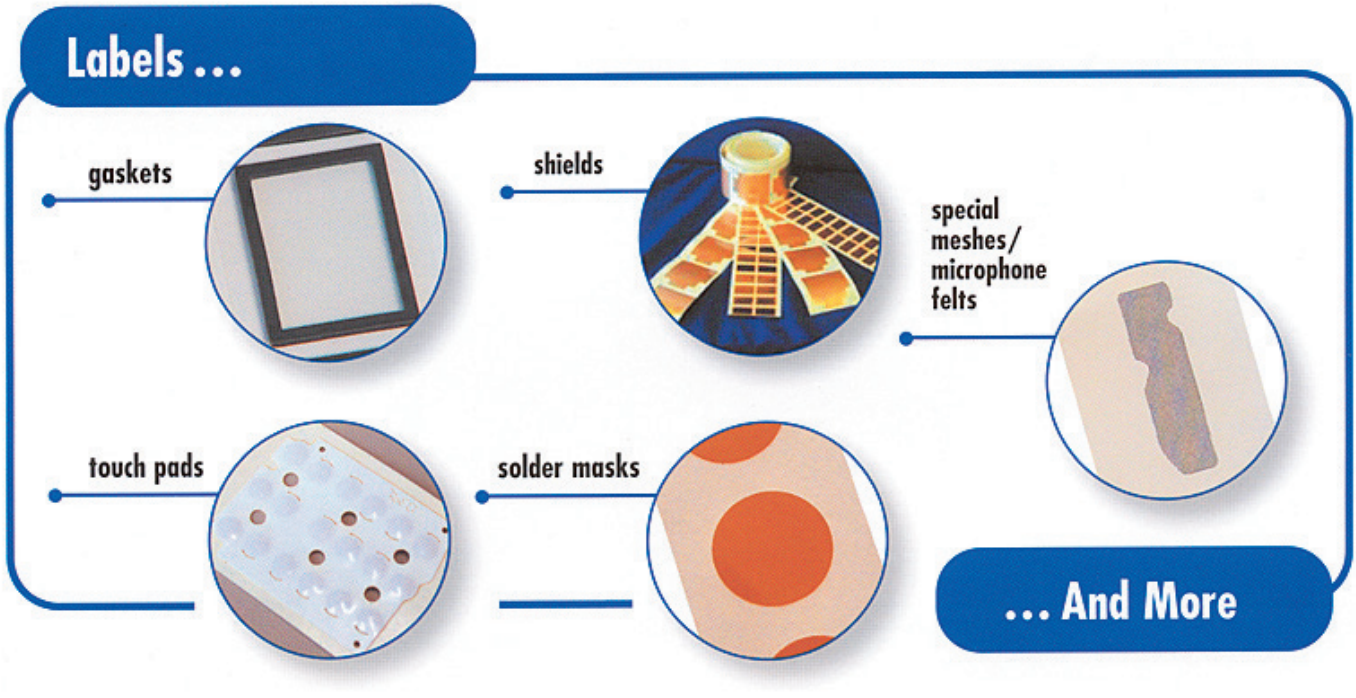
Second: the interchangeable label tooling module (LMG) that is designed specifically to peel and present the label stock.
(See Applicable Label Dimensions, Fig. 2).

## Versatile

The LP Series is extremely versatile. The flexibility of the label module means it can also be adapted to present a wide assortment of adhesive backed products just a few of which are illustrated below.

## Label tooling module

Label modules are interchangeable: This allows the user to quickly and efficiently change label sizes without the need for tools. Simply use the release lever on the base feeder, lift the module from the label presenter and replace it with a new module. The one-piece design has all the size-specific parts that are required for the new label. One feeder can service multiple applications with simple changeover.

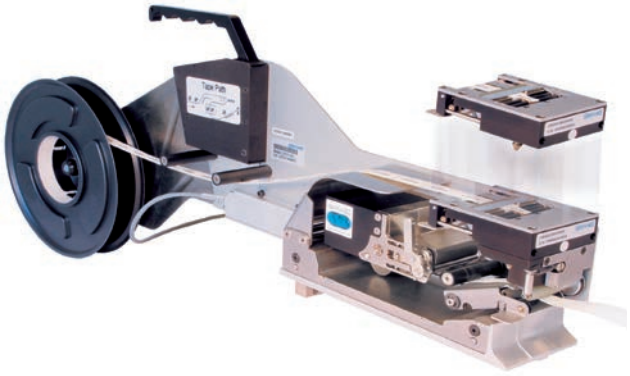


# ultimate flexibility

## Fig. 1 - LP Series Compatibility Matrix:

| Type | Manufacturer | Machine Model |
|---|---|---|
| LPA | Assembléon | ACM, FCM-II, GEM-Xi, GEM-Xi, AX Series, MG-1 & MG-8 with ITF Interface. |
| LPG | Assembléon | GEM, GEM-X, GEM-X-II, MG-1 and MG-8 with CL or Cli interface. |
| * | Europlacer | Xpress, Flexys10, Finesse, Vitesse |
| LPF | Fuji | IP Series, QP232, QP341, XP242 |
| LPFN | Fuji | NXT, XPF, AIM |
| LPJ | JUKI | 700 Series, 2000 Series, FX, CX |
| * | MYDATA | MY Series, TP Series |
| LPP | Panasonic | MPAV2, MPAG3, MSF, MCF, BM221, BM231, IPAC |
| * | Panasonic | CM212, CM402, CM602 |
| LPSG | Samsung | CP20, CP40, CP45, CP45 NEO CP 50 |
| LPS | SiPlace | SiPlace® S, F, C, HF, HS, D Series X Series with Schultz interface |
| LPU | Universal | GSM Series, Genesis, AdVantis® |
| LPY | YAMAHA | YG Series |

* Please contact Hover-Davis for other applications.



## Specifications:

| Parameter | Standard Models | Wide Models |
|---|---|---|
| Feeder Width | 61.7 mm | 81.9 mm |
| Feed Rate | 53 mm/s | 53 mm/s |
| Pick Point Repeatability | ± 0.25 mm | ± 0.25 mm |

## Fig. 2 - Applicable Label Dimensions:

Standard Models

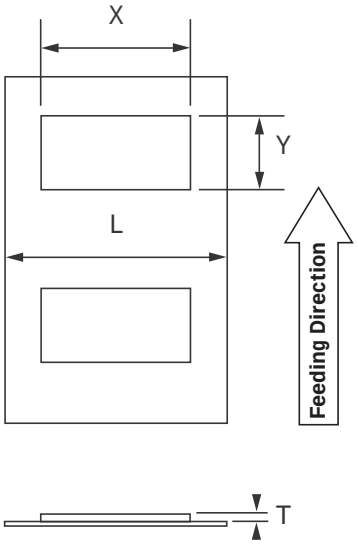
| | Min. | Max. |
|---|---|---|
| X | 4 mm | 42 mm |
| Y | 4 mm | 50 mm |
| L | 4 mm | 42 mm |
| T | .05 mm | Application Dependant |

Wide Models

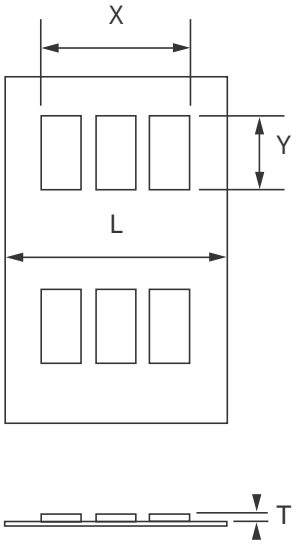
| | Min. | Max. |
|---|---|---|
| X | 4 mm | 58 mm |
| Y | 4 mm | 50 mm |
| L | 4 mm | 58 mm |
| T | .05 mm | Application Dependant |

* Dimension 'X' can only be less than or equal to dimension 'L'

Horizontal Orientation




Vertical Orientation

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