

# Horizontal Tube Feeder (HTF)



The **Horizontal Stacked Tube Feeders (HTFs)** are high volume, high speed component feeding systems.

The HTF feeds components such as connectors, relays, coils, power transistors, and other odd form components packaged in plastic extruded magazines/tubes to robotic cells and flexible placement machines.

Tubes of components are stacked in the feeder's tube handling hopper.

A "pusher" tape pushes components from the bottom tube and onto a track leading to the pick point.

Whenever a component is picked, the pusher tape advances the column of components until the lead component is in the pick position.

Since the components only have to be pushed the length of a component, the cycle time is very short.

Whenever the bottom tube is empty, the tape retracts, the empty tube falls from the feeder, and feeding resumes from the next tube.

The feeder can handle components from 6mm to 60mm wide and from 6mm to 44.5mm tall.

#### **Features:**

- Ideal for feeding a wide variety of component packages.
- Dispenses components from their shipping tubes.
- Continuous feeding. Automatically changes tubes when one becomes empty.
- Handles a large inventory of components. Full tubes of components can be added to the top of the stack at any time.
- Ideal for use with components that cannot be gravity fed because they are unstable for gravity feeding.
- Short cycle time ensures fast pick and place.
- Your investment in feeders is protected from obsolescence. Whenever your product design changes or new products are developed, feeders can be inexpensively converted to feed the new component.
- Control and communication by Programmable Logic Controller.
- Intuitive, informative Touch Screen Display panel provides all control functions for the operator and complete trouble shooting functions for maintenance or machine repair.

#### **Motor Drive:**

Stepping Motor Drive provides a smooth, gentle drive that can be programmed to provide a precise push speed appropriate to the components being fed and maintain the quick retraction for tube exchange.

### Pusher Tape:

The Pusher Tape now has “infinite” life: 24/7 testing of the new Pusher Tape and attachment system for one year did not produce a failure. Thus far no tape failures have been reported from customers using this system.

### Optional Features:

Optional features can be added upon request to meet the needs and convenience of the customer:

- Convertibility of Tracks for compatible components in tubes of the same length
- Track Air Jets for continuous feeding during the tube eject sequence
- Component lift at pick point
- Component rotation at pick point

### Host Machines

Assembleon, Fuji, Juki, Mycronic, Panasonic, Siemens, Tyco  
The HTF for Juki and Assembleon can be purchased only from Juki and Assembleon.

### Specifications

Application Models	Siemens All models with S-Feeder Interface, X- and SX series	Fuji All models with IP or NXT feeder interface	Mycronic GFI	Panasonic MSF,BM	Tyco Q and C Series
Max. Component Size	L: 2mm up, W:5-53 mm, H: 5-45 mm				
Max. Stack Size	Height - up to 410mm				
Air Connection	Any clean, dry, 60-90 PSI air source can be used.	AIM manifold or externally plumbed	mechanical and electrical connection to a MYCRONIC Generic Feeder Interface (GFI) is required.	Automatic engagement upon feeder installation	4mm OD tube to be connected to clean, dry, 60-80 PSI compressed air
Electrical Connection	Power Connector plugs into S-Table electrical power port	Feeder cable plugs into Fuji feeder power port on IP interface	Feeder has a communication cable and adapters for installation on the GFI. Feeder also has a power connector to plug into a power outlet on the MYCRONIC.	Automatic engagement upon feeder installation	2 pin connector feeder cable plugs into 24VAC from placement machine
Mounting Width	89mm				

# Our Product Portfolio



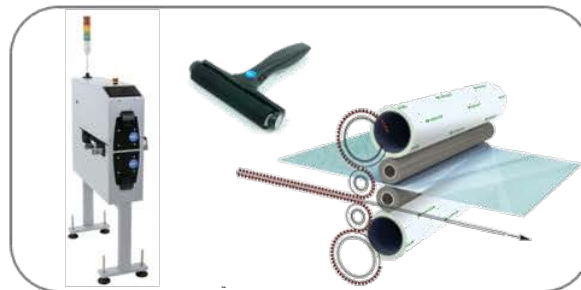
Feeding Technology



Label Feeder, Labels and Marking Solutions



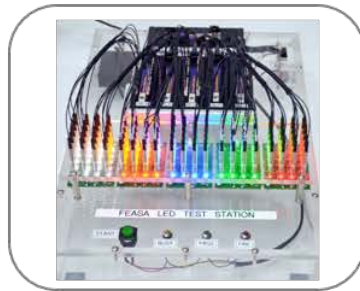
Special Applications



Bare Board Cleaning



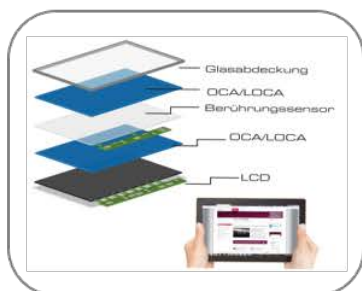
In-System Programming



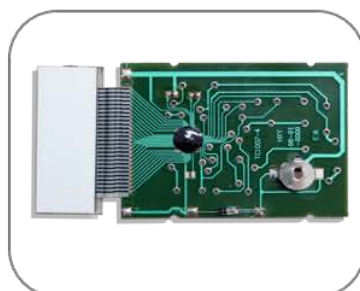
LED Analysis



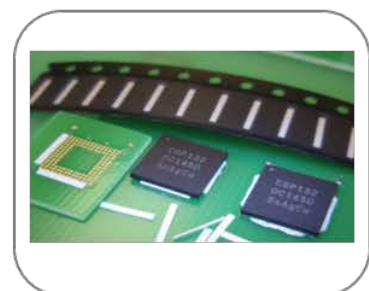
Reflow Inline Camera



Optical Bonding



Thermal Bonding



Place-N-Bond