

GPAX 4008 LOADER

Process Proven ⇒ Flexible ⇒ Rugged ⇒ Safe ⇒ Efficient ⇒ Precise



These six words define the fundamental quality and design of the GPAX process and were the foundation for all GPAX equipment.

The GPAX 4008 Loader is an odd-form component loader that works with all types and sizes of GPAX mechanically interlocking tapes. This high output machine can be operated manually or integrated into your component assembly machines.

PROCESS PROVEN ...

- Used throughout the world packaging hundreds of different odd-form configurations
- Reel flange guards control flange deflection during packaging
- Automatic feeding of unpopulated carrier and StitchLock tapes on demand
- Automatic take up of populated reels providing proper wrap tension during packaging

FLEXIBLE ...

- Package full range of GPAX ThruPAX, FlatPAX or Semi-Pocket mechanical interlocking tape widths from 44mm to 152mm (1.5" to 6" Type Tape) on a single machine
- User configurable settings for reel quantity, GAP (length of Leader and Trailer), and CUT
- Packages full range of carrier tape pitches from 16mm to 48mm and StitchLock cover tape pitches from 19.05mm to 133.35mm on a single machine
- Can be integrated into new or existing production equipment

RUGGED ...

- All index and stitching motions are cam driven for durability and repeatability
- Simplified modular construction provides long life, reliable operation and quick set-up
- Handles input tape supply and packaged reels with heavy components up to 18 kg (40#)

SAFE ...

- All mechanical motions are guarded and electrically interlocked
- Indexes only upon and external signal (Automated) or operator depressing foot switch

EFFICIENT ...

- Maximum index rate of 4200 pitches per hour in automated mode
- Splicing of cover and carrier tapes during packaging avoids scrap and machine down-time
- High volume supply reels of unpopulated carrier and covers tapes, usually in excess of 10,000 pitches – minimizes inventory replenishment, associated down-time and material handling costs
- Foam interleave tape (if specified) can be easily spliced during packaging

PRECISE ...

- Micro PLC controls, with EPROM back up

GPAX 4008 Loader System Specifications

OPERATIONAL PARAMETERS/FEATURES

- Packaging Rate: 4200 indexes/hour
- Maximum Reel Weight: 18Kg (40 lbs)
- Maximum component height above top of carrier tape: 38mm (1.5 in.)
- Maximum protrusion below top of carrier tape: 6.35mm (0.25in.)
- Power Supply: 115 or 230 VAC(with transformer): 50 or 60 Hz, Single Phase (Specify on Order)
- Motion: tape indexing and interlocking are cam driven, Reels are gear motor driven
- Controls: micro PLC with Operator Panel Interface

ELECTRONIC INTERFACE FOR AUTOMATION

- User **INPUT** (from GPAX 4008 Loader) **+24 VDC Sourcing Signals** READY, CUT, END, ERROR
- User **OUTPUT** (to GPAX 4008 Loader) **0 VDC** (PLC Common) sinking signal REMOTE INDEX to index GPAX 4008 Loader
- RESET to reset system for next reel

OPERATOR CONTROL PANEL

PART COUNT: Running count of number of pitches on output reel (Push-button reset)

User Set Points:

COUNT: Sets number of pitches per output reel

GAP: Sets length of leader plus trailer

CUT: Sets position to sever tapes between reels

Button/Push-to-Test Lights:

CYCLE START: (GREEN) to initiate tape loading sequence

CYCLE STOP: Red button to terminate cycle mode

RESET: (RED) Returns all mechanisms to "HOME" position

LOAD: (BLUE) Part in tape sensed; Index one pitch (manual)

END: (RED) Signals operator that output reel is full

CUT: (AMBER): Signals operator to sever packaged reel

E-STOP: (RED Mushroom) EMERGENCY STOP button

HOME POSITION: All mechanisms at "HOME" position

