

MINUTEMAN



The Quality You Need
To Produce Superior Work

The **MINUTEMAN** was designed and developed to meet the need for an economical, versatile, highly productive saddle stitcher for small to medium operations. It delivers high-quality performance at a surprisingly low cost. Full service capability allows you to control quality, scheduling, and shorten delivery time for pamphlets, publications, catalogs and books. Your stitched products are completed in one operation.

MINUTEMAN increases your profits

- Fastest makeready of any saddle stitcher to process even short runs profitably
- Conveniently located lever to time or idle pockets
- Each pair of pockets can be centrally timed and operated in 2:1 mode
- Heavy-duty, in-line single book trimmer
- 4th and 5th knife optional
- Unparalleled ease and simplicity of operation
- Counter stacker can be added
- Building block design - start with two feeders, grow with your needs
- Space-saving design and efficient operation

Description

The **MINUTEMAN** is a fully automatic, heavy-duty saddle stitcher for short and medium runs. 'Flying stitching heads, with no stop-and-go motion, assure precise stitching and less wear. Short pin spacing for low chain speed, and patented tilt-back chain pins enable even difficult signatures to be handled efficiently.

The **MINUTEMAN** is fed and operated from the front so there is no need to run behind the machine. A caliper detects missing and double signatures. Imperfect books are automatically diverted without machine stops into a reject tray, accessible from the front and loading side. Low-silhouette design allows waist-high loading for more efficient operation.

Feeders are top loading/bottom feeding for continuous operation and have both mechanical and vacuum opening. Feeder size adjustments take only a minute or two.

The heavy-duty single book trimmer pro-

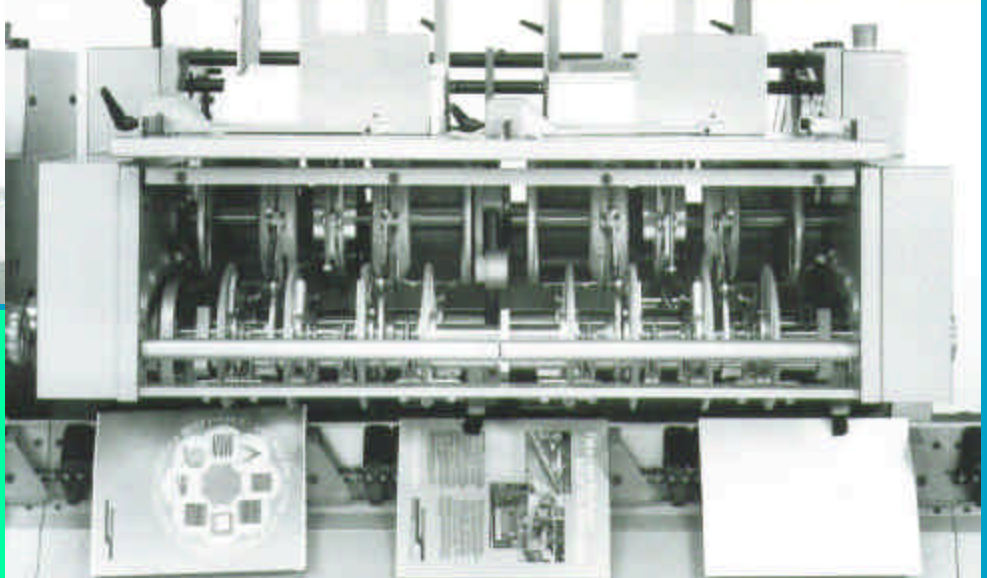
duces work of exceptional trim quality and sets up in minutes on calibrated dials. Finished books are delivered, shingled, on a belt with separate variable speed drive.

The **MINUTEMAN** Saddle Stitcher can grow with your needs. The building block principle allows it to be upgraded for additional capabilities. You can add in-line, at any time:

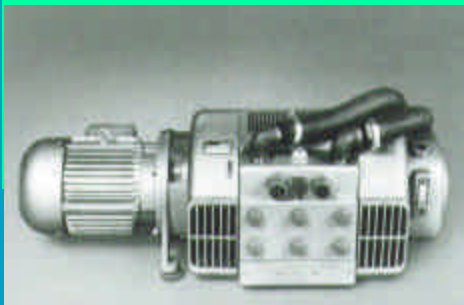
- Feeder pockets in multiples of two - building block' principle
- Folder feeder - eliminates off-line operation
- 3-Hole Punch to expand capabilities - or Single Hole Punch for calendars or
- 4th and 5th knife for increased production
- Stitching heads for close stitch spacing
- Loop stitching heads for unique flexibility
- Postcard attachment for special small sizes
- Trim Removal System - moves paper trim to a waste container for neat, more convenient operation
- Low-cost stacker - reduces handling, increases productivity



The feeder has both mechanical and vacuum opening. It handles a wide variety of sheet-fed or web signatures from 4 to 64 pages, cards, envelopes, with or without lap (lap preferred), closed or open head; also signatures or inserts by outside sources.



The feeders are conveniently loaded from the operating side. Low silhouette design reduces fatigue while the continuous top-loading, bottom-feeding principle provides uninterrupted, non-stop operation.



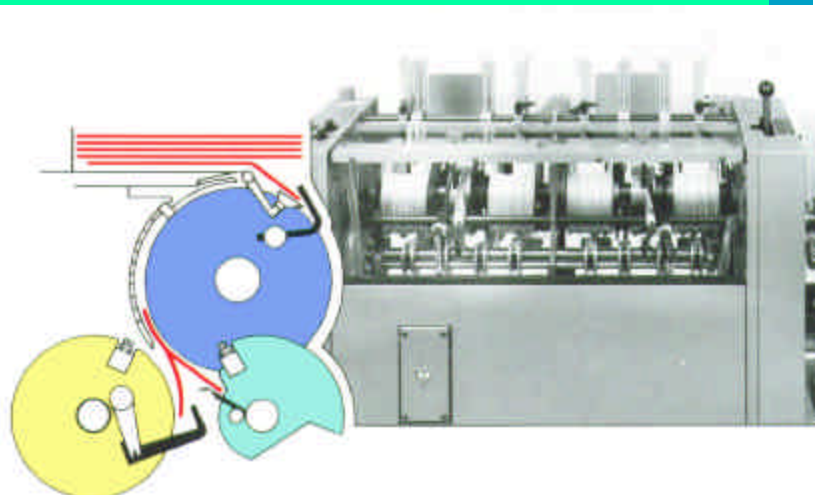
A convenient lever enables central timing and 2:1 operation of 2-pocket units and permits idling of unused pockets, conserving energy and saving wear-and-tear. A small size attachment is available for feeding small cards

Self-Contained Air System

A combination pressure/vacuum compressor is supplied with the MINUTEMAN. This heavy-duty unit is designed for easy maintenance and is completely self-contained.

Feeding Principle Signatures are stacked horizontally on the feeder table. The bottom copy is separated from the pile by air blast and suction. It is then pulled around the drum by cam operated grippers for positive feeding. Pile retainers hold the remaining signatures in position. Flat pile feeders are convenient to load and handle a wide variety of signatures more efficiently. Easily adjustable stops position the signature in the cradle where it is opened by grippers (signatures with lap) or suckers (signatures without lap).

The signature is then placed on a sword for subsequent pick-up by the chain. Short drop and positive feed assure effective control of signatures throughout the entire feeding operation.



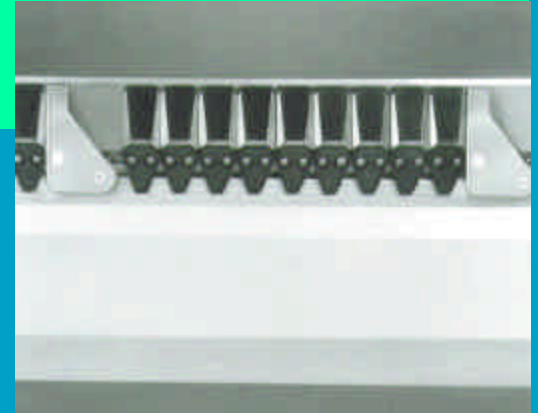


Unmatched Economy

Conveniently located on the front side of the machine, the reject tray diverts incomplete copies, unstitched and untrimmed, so that signatures can be reloaded into the pockets. This feature is especially useful during makeready.

Non-Stop Operation for Accurate Stitching

The continuous heavy-duty steel chain is plastic clad to protect books and reduce static. Short pin spacing provides lower chain speed for smoother pick-up of signatures and settling on the saddle, as well as reduced wear and quieter operation. The unique profile allows the product to sit snugly on the chain and holds thick books securely.



Simplest stitching heads in the industry

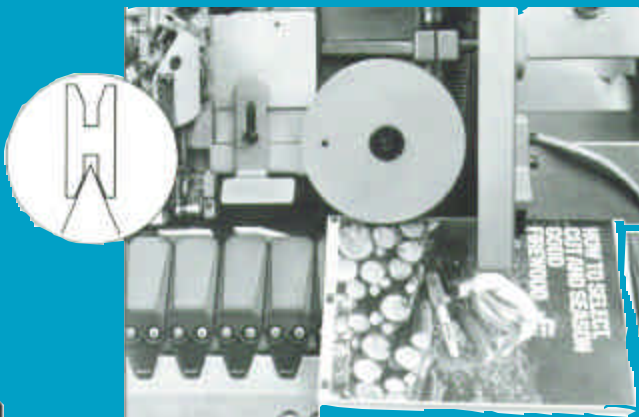
Muller Martini's exclusive flying stitching heads guarantee positive and precise stitching at all speeds. The stitching heads move with the chain, and the book is stitched at chain speed. This eliminates stop-and-go motion for

less wear. The stitching heads contain few moving parts for dependable service and easy set-up. The stitching unit design provides maximum versatility, including stitching heads with narrow centers for 2-up work.



Run the Minuteman with One Person

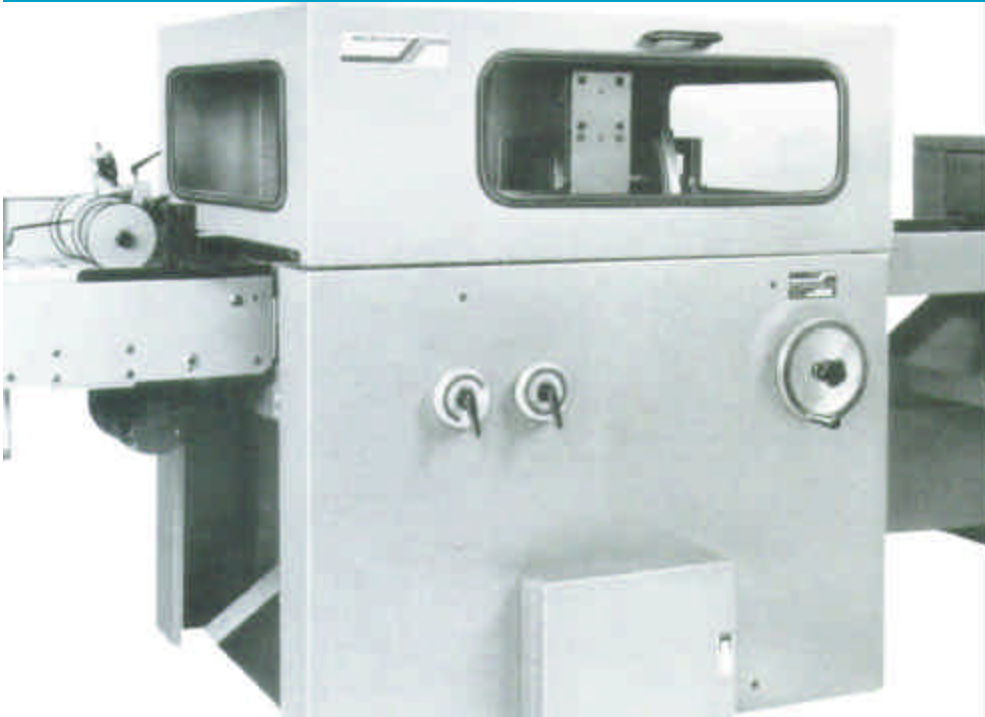
Variable speed control, infinitely adjustable, allows you to tailor the machine speed to the job. An additional advantage is that the MINUTEMAN can run at slow speeds to allow one person to feed signatures and take off finished books.



Every Book A Perfect Book

The caliper checks each book for missing or double signatures before it is stitched. Measuring is done on the side, just below the spine, for greatest accuracy. Imperfect books are rejected, unstitched, into a tray. This automatic control assures that only perfect books will be delivered.

Heavy Duty 3 Knife Trimmer for efficient In-line operation



3- Knife Trimmer

Books are fed into the 3-knife trimmer and accurately aligned against the spine. The head and foot are trimmed in the first knife station, the front in the second. Books are pulled rather than pushed into the knife station for precise register to the spine and square trimming, even with poorly --folded, oversized or extremely light sections. A perfectly square, clean cut is guaranteed by heavy-duty, hold-down clamps and the shear action of the knives. Guards are lined with special sound absorbing material for quiet operation. The upper guard is counterbalanced for more convenient use.



Scales and Dials

The use of scales and dials for size adjustments cuts your makeready and will have your MINUTEMAN in production sooner. This unbeatable makeready gives you the competitive advantage, particularly on small runs. Single point waste discharge further adds to operator convenience.



Simple, wrenchless size adjustments provide lightning quick makeready and permit the use of less skilled personnel. These savings in time and labor costs provide the lowest possible cost-per-book while maintaining the highest quality. Unbeatable makeready gives you profitable production and the competitive advantage with all size runs.

The MINUTEMAN is an extremely compact, "L" shaped machine and requires little floor space. It can be tucked into a corner. The space inside the 'L' is the control zone and is used to stage skids of signatures and store finished work.

From this control zone, the operator can feed the pockets, see signatures on the chain, insure that wire is fed into the stitching heads, and observe transfer into the trimmer - while having access to all controls and the reject tray.

There is never a need for the operator to run behind the MINUTEMAN.



A counter and kicker on the belt delivery provide a gap in the shingle, making it easy to stack off batches of preset count. The number of copies in each batch is set on a preselector switch. A totalizer gives an accurate count of copies produced.

Stitched products are delivered, shingled, on the belt delivery. An independent, variable speed drive allows speed adjustment for the desired spacing of brochures, depending on size and individual needs.



Accessories



4th & 5th Knife

A 4th & 5th knife -can be mounted on the trimmer to double your production. It offers the choice of splitting the -book or trimming out the center, depending on individual job requirements.



Cover Folder Feeder

Folds products directly in line with the saddle stitcher. Off-line folding is eliminated-along with the folding machine, the folder operator, extra space, and handling. This exceptionally versatile feeder handles covers, cards, signatures, TV programs, comic books, and preprints.



Single Hole Punch

The single-hole punch is an economical way to provide a hole for hanging calendars, since there is no need for coil binding or tinning.



3-Hole Punch

The punching device is a heavy-duty attachment that allows 3 hole punching in-line, simultaneously with the trimming operation at full speed.