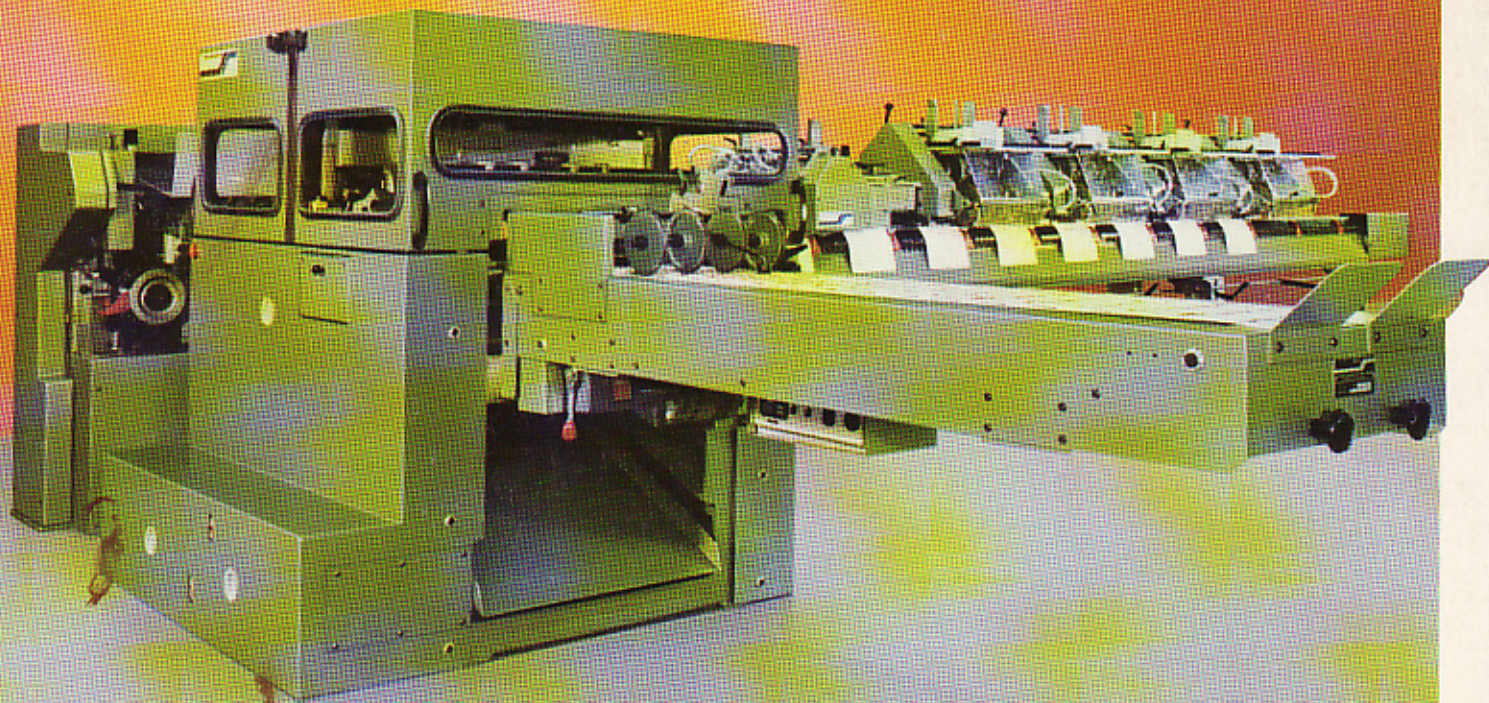


MULLER-MARTINI

# 321-FOX Saddle Stitcher

- Minimal maintenance, splined shaft drive with universal joints — no drive belts or chains
- Fastest makeready of any high-speed saddle stitcher
- Add more feeders any time as your needs grow
- Heavy-duty single book trimmer for square, neatly trimmed books
- Optional 4th and 5th knife doubles production
- Unparalleled ease and simplicity of operation
- Conveniently located lever times or idles individual pockets
- In-line compensating counter stacker can be added



**Low-silhouette design for more efficient loading**

The most versatile machine of its kind, the 321-FOX was developed specifically to meet the demand for a highly productive saddle stitcher for short and medium runs. It delivers the famous Muller-Martini high quality performance, yet is surprisingly low in cost.

The 321-FOX completes your stitched products in one single operation and guarantees complete control of your work. Your full service capability allows you to control quality, scheduling, and shorten delivery time for pamphlets, publications, catalogs and books.

## The most productive stitcher for medium and short runs

### Description

The 321-FOX is fed and operated from the front so there is no need to run behind the machine. A built-in plus/minus caliper automatically detects incomplete books and doubles. Imperfect copies are diverted, unstitched, into a reject tray without machine stops. The reject tray is also accessible from the front and loading side.

The 1503 Twin Feeders have both mechanical and vacuum opening. They load from top, feed from bottom for continuous operation. Feeder size adjustments take only a minute or two. Pockets have individual timing and can be equipped with 2:1 feeding capability.

The heavy-duty single book trimmer produces work of exceptional trim quality and sets up in minutes with calibrated dials. Finished books are delivered, shingled, on a belt with separate variable speed drive.

The saddle stitcher can grow with your needs. The building block principle allows upgrading of the 321-FOX for additional capabilities. Be prepared right from the start; you can add, in-line and at any time:

- Feeder pockets in multiples of two — “building block” principle
- Postcard attachment — for extremely small sizes
- Stitching heads for narrow centers
- 3- or Single-Hole Punch — expands capabilities and versatility
- 4th & 5th Knife — for increased production
- Loop Stitching Heads — for unique flexibility
- Folder feeders — eliminate off-line operation
- Trim Removal System — for neater, more convenient operation
- Stacker — to reduce handling and allow stitcher to run at higher speed



Muller-Martini's U.S. headquarters.

When investing in new equipment, the back-up you can expect from the manufacturer is as important as the capabilities of the machine. Dependable service, quick parts availability and technical support will protect your investment for years to come.

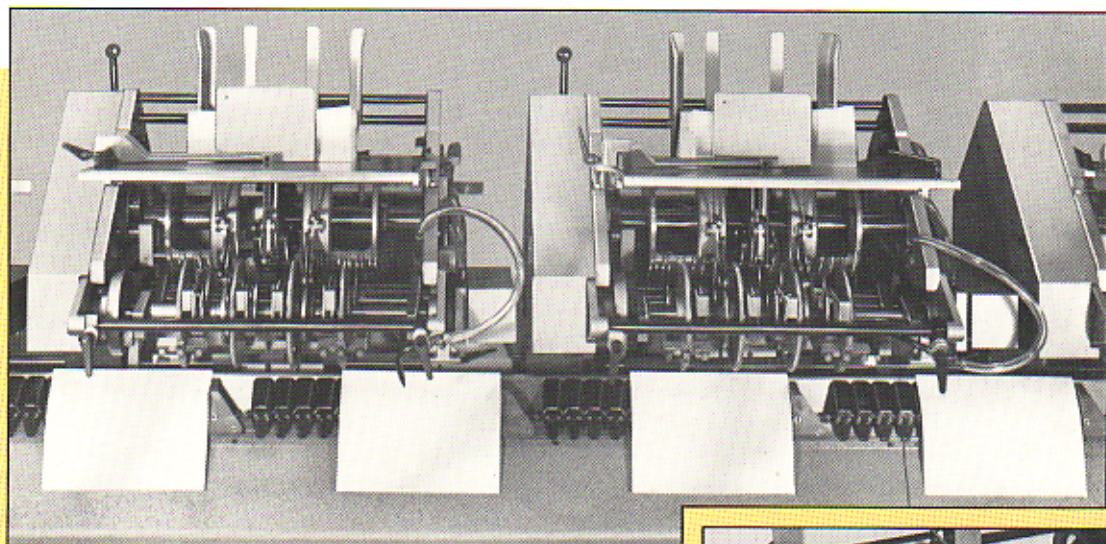
Single source responsibility is the key to dependable service. Muller-Martini offers you single source responsibility because we have control over Research and Development, Manufacturing and Assembly, Sales and Service of our products.

The 321-FOX is another product of Muller-Martini's exceptional engineering and craftsmanship. Designed, manufactured, and serviced by Muller-Martini, this saddle stitcher is a true production machine which makes finishing profitable for the small to medium size plant — even for part-time operation.

### Single Source Responsibility

means Muller-Martini will stand behind your machine.

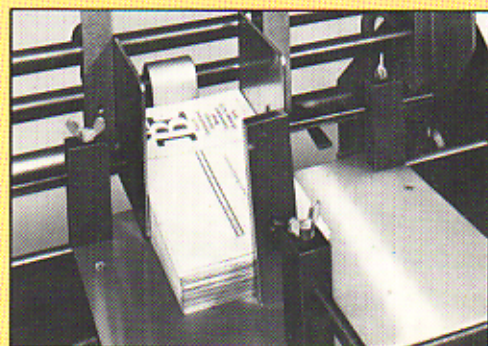
# Waist High Loading



The 1503 Twin Feeders have both mechanical and vacuum opening. They feed signatures, cards, and envelopes, with or without lap, closed or open head. Short drop and horizontal feeding assures positive control and ease of operation.

Feeders load from top, feed from bottom for continuous operation. A convenient lever facilitates timing and allows unused pockets to idle, saving power and wear-and-tear.

The small card kit makes it possible to handle extremely small sizes, 3-1/8" X 4" (80 X 100 mm), on the regular signature feeder. The kit is easily mounted on the feeder table. IBM cards (punched cards) and small size cards with lap can also be handled efficiently with this attachment. Auxiliary parts can be furnished for suction opening of specialized work (moveable suction heads for products with short leg).

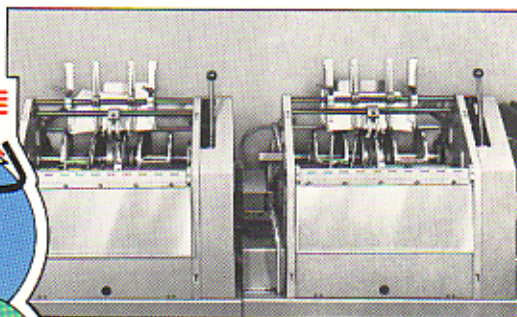
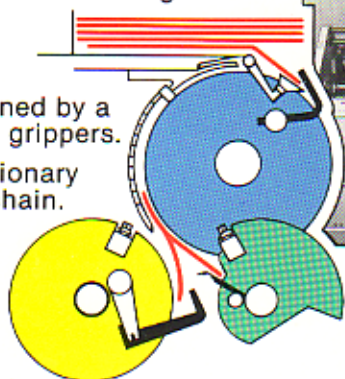


## Feeding Principle

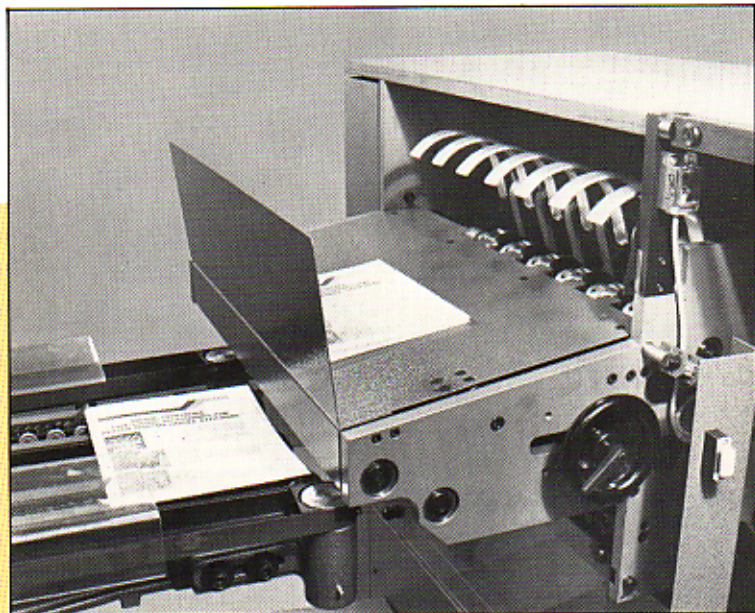
Signatures are stacked horizontally on the feeder table. The bottom copy is separated from the pile by air blast and suction. It is then pulled around the drum by cam operated grippers for positive feeding. Pile retainers hold the remaining signatures in position.

Easily adjustable stops position the signature in the cradle where it is opened by a combination of moveable suckers and grippers.

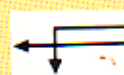
The signature is then placed on a stationary sword for subsequent pick-up by the chain. Short drop and gripper feeding principle assure positive control of signatures throughout the entire feeding operation.



# Outstanding er



## Unmatched Economy

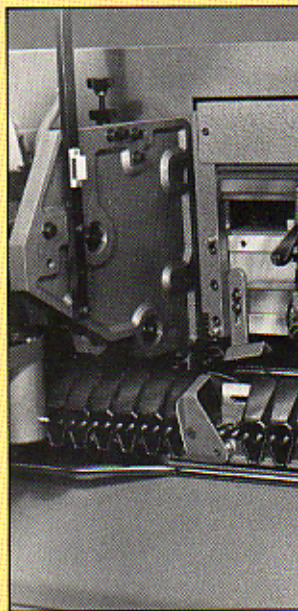
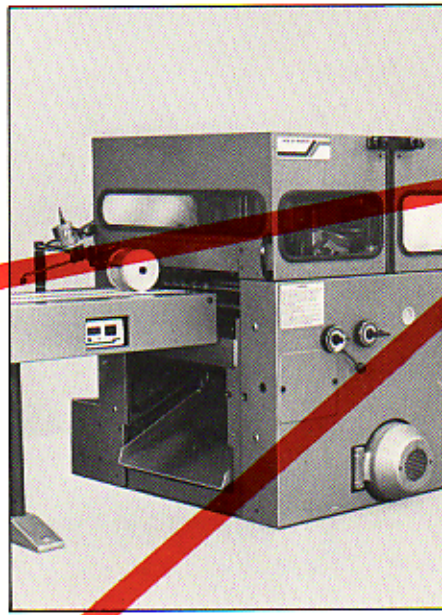
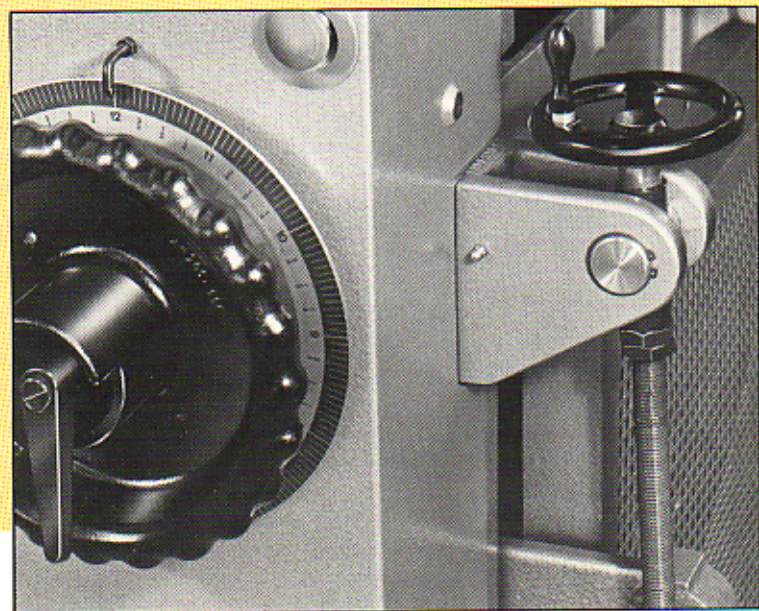


Conveniently located on the front side of the machine, the reject tray diverts incomplete copies, unstitched and untrimmed, so that signatures can be reloaded into the pockets. This feature is especially useful during makeready.

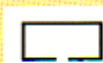
## Run The 321-FOX With One Person



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



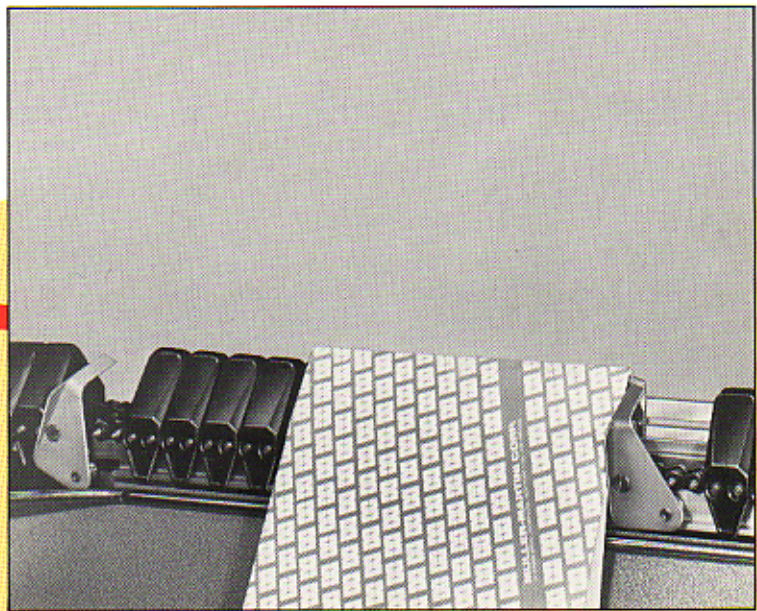
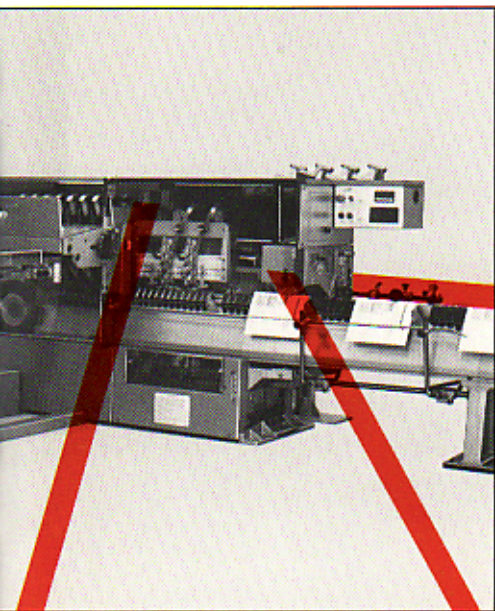
## Simplest Stitching



Muller-Martin's exclusive "fly stitching" heads guarantee positive and precise stitching at all speeds. The stitching heads move with the chain, and the signature is stitched at chain speed. This eliminates stop-and-go motion for a smoother flow. The stitching heads

# Highest value

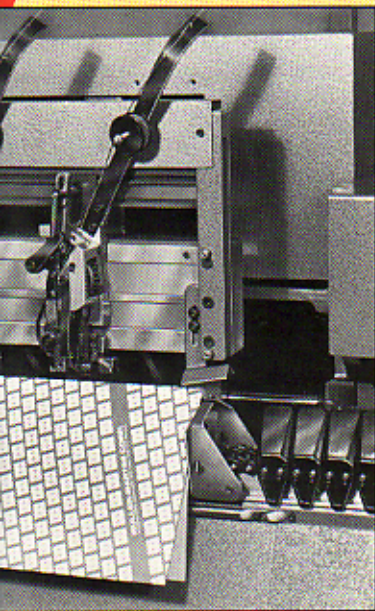
# neering features



## Non-Stop Operation For Accurate Stitching



The continuous heavy-duty steel chain has a plastic covering to protect books and reduce static. Unique chain design, with swing-away chain pins, provides smooth, consistent signature handling at high speeds, as well as reduced wear and quieter operation. A unique profile allows the product to sit snugly on the chain and holds thick books securely.



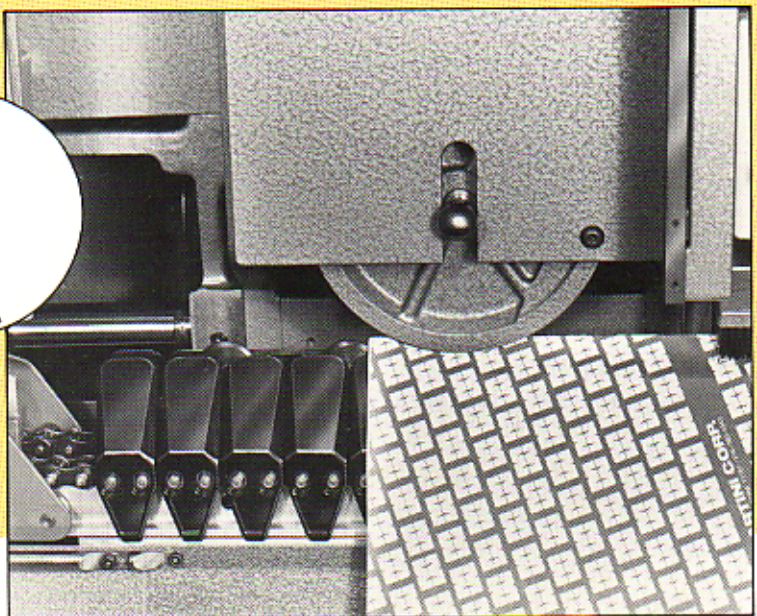
## Every Book A Perfect Book



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

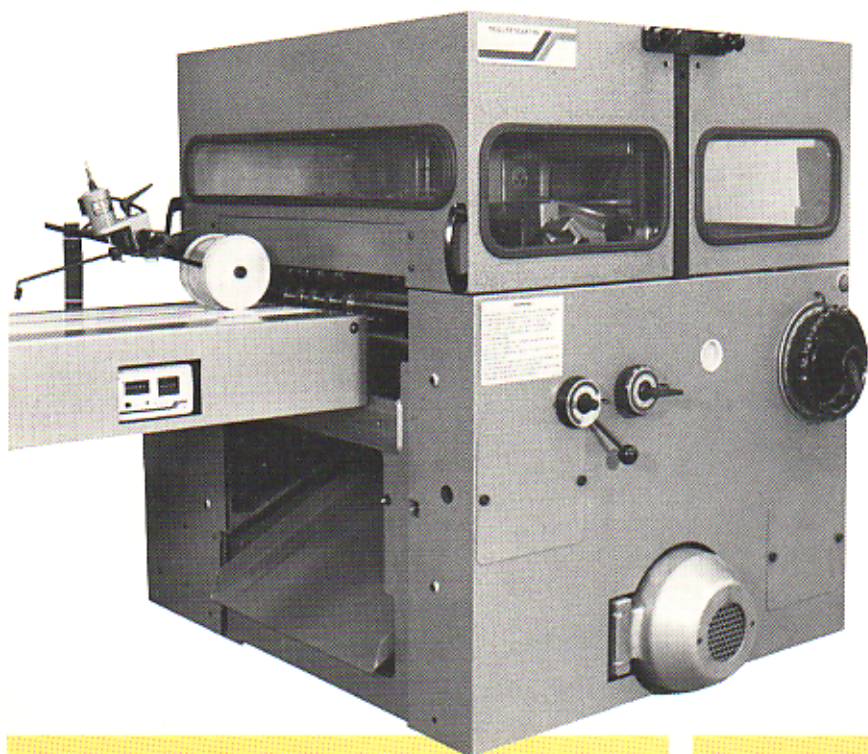
## heads In The Industry

contain few moving parts for dependable service and easy set-up. There is a choice of heads which can be used interchangeably for a variety of work; from the bulkiest of products to extremely small sizes with small center distance for 2-up production and loop stitching.



# at lowest cost

# Heavy-duty 3-Knife Trimmer for efficient in-line operation

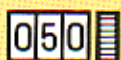


## 3-Knife Trimmer

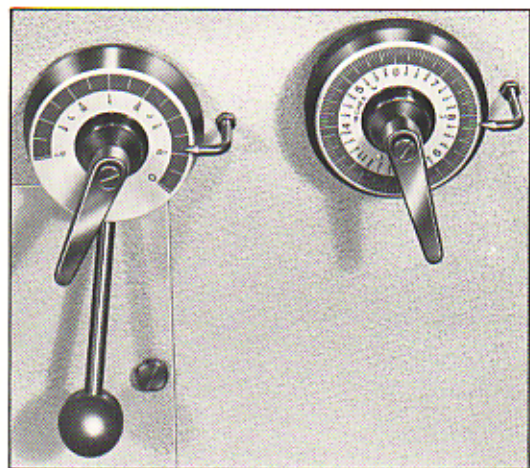


Books are fed into the 3-knife trimmer and are accurately aligned by register stops. The head and foot are trimmed in the first knife station, the front in the second. Books are pulled rather than pushed into the knife station. This results in precise, square trimming, even with poorly folded, oversized,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

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



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. The counter contains a totalizer to give an accurate count of copies produced.

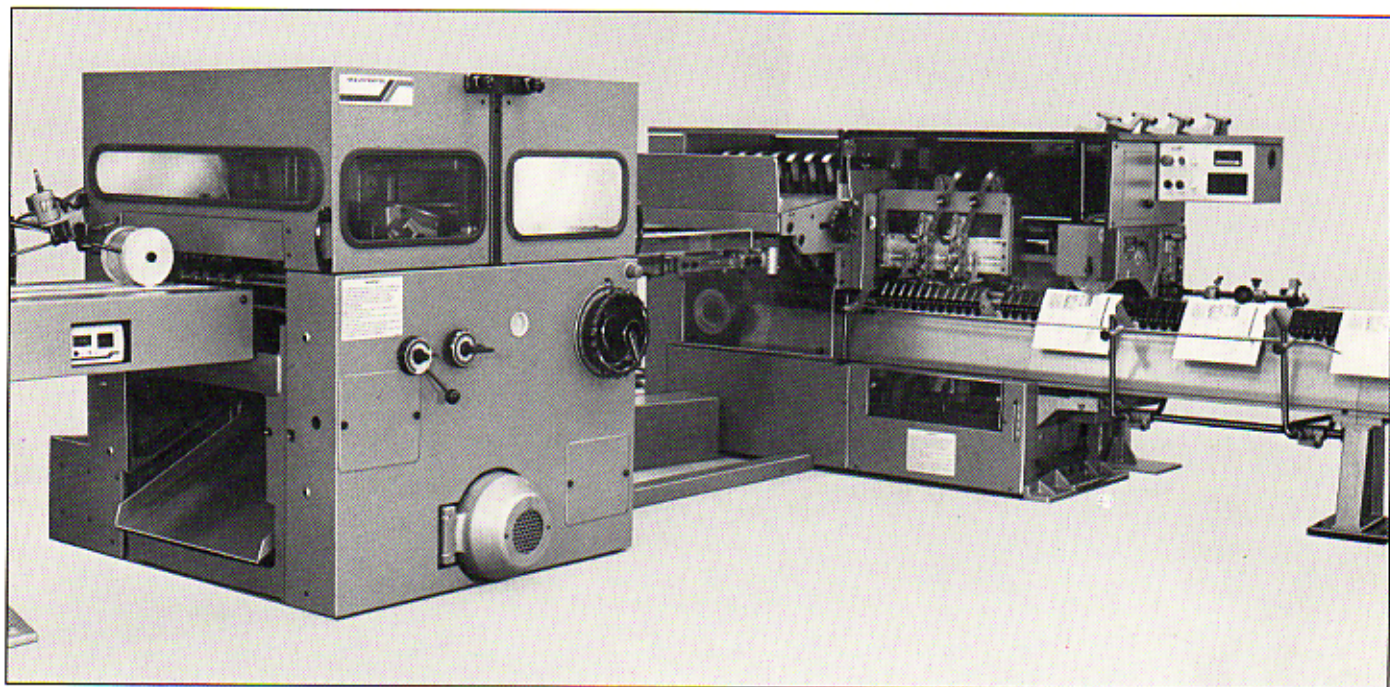



## Scales & Dials



The use of scales and dials for wrenchless size adjustments cuts your makeready time and will have you in production faster. Anyone can set up the 321-FOX in minutes and produce quality work. This unbeatable makeready gives you the competitive advantage with any size run.

# Never a need to run behind the 321-FOX

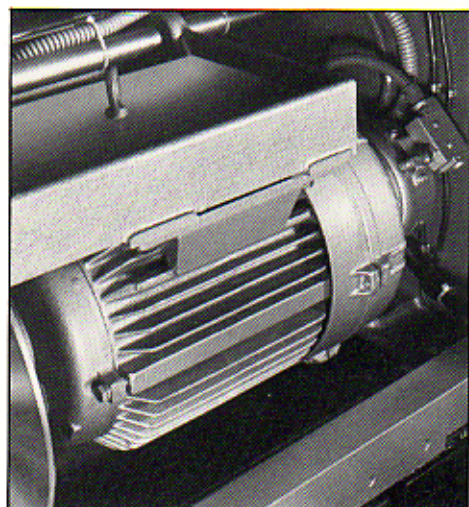


 The 321-FOX is an extremely compact, "L" shaped machine and requires little floor space. It can be tucked into a corner. The space inside the "L" is the control zone and is used to stage skids of signatures and store finished work.

From his 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 immediate access to all controls and the reject tray. There is never a need for the operator to run behind the machine.



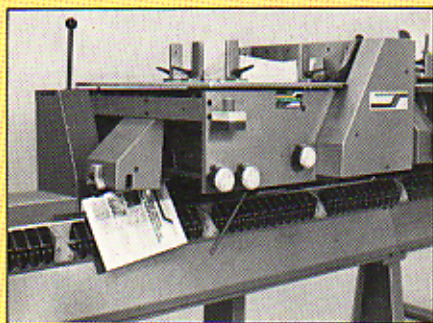
Simple, wrenchless size adjustments provide lightning-quick makeready and permit the use of less skilled personnel. These savings in time and labor costs provide the lowest possible cost-per-book while maintaining the highest quality. Unbeatable makeready gives you profitable production and the competitive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



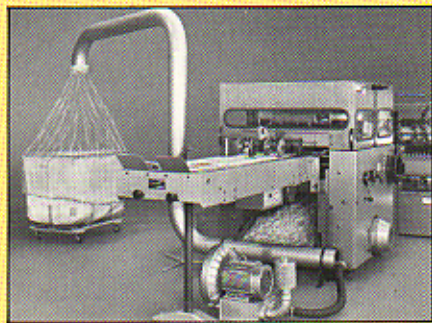
Modern central drive requires little maintenance. The powerful motor and helical gear drive provide smooth, long-life operation.

## Unbeatable makeready

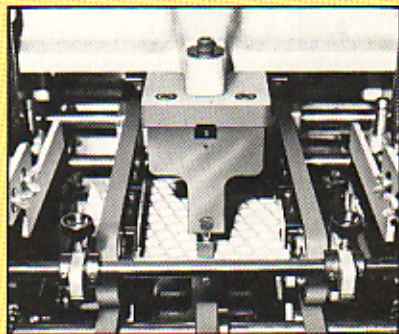
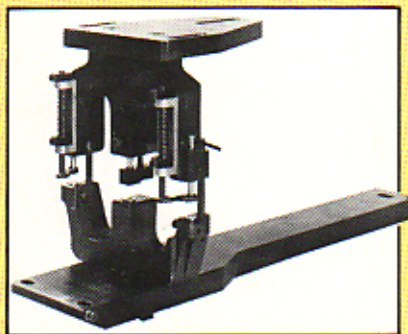
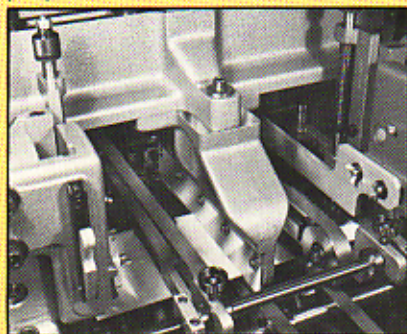
# Quality engineering and craftsmanship



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.



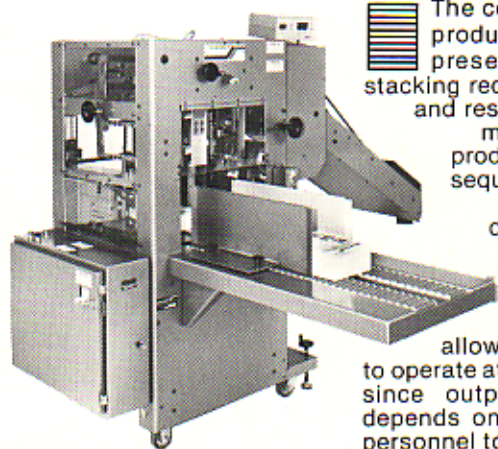
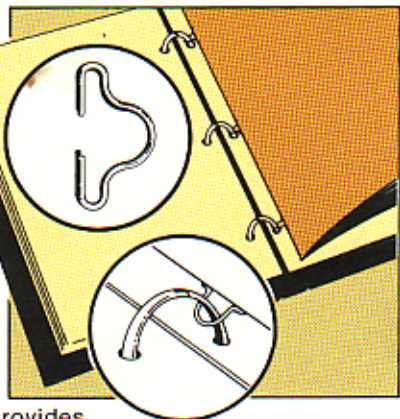
The Trim Removal System carries paper trim from the 3-knife trimmer to a container by means of a continuous air flow. It is simple to install and provides a neat, more convenient stitching operation. Eliminates manual floor sweeping. The system includes blower, trim collector, ducts, and air net.



-  **4th & 5th Knife,**
-  **3-Hole Punch or**
-  **Single Hole Punch**

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. The punching device is a heavy-duty attachment which allows you to punch, in-line, 3 holes simultaneously with the trimming operation and at full speed. 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.

Loop stitching is an alternative to hole punching for stitched booklets to be used as binder inserts. Instead of holes, the stitches in the booklets have semi-circular loops that slip over the rings of the ring binder. Off-line punching or drilling is eliminated, along with the punch or drill, operator's time, extra floor space, and handling. Loop stitching provides design flexibility by removing the requirements for a punch margin or a short leg on gatefolds.



The counter stacker produces stacks of preset count. Neat stacking reduces handling and results in greater, more consistent production on subsequent machines. Stacks can be delivered to the left or right to fit any layout requirement. The stacker allows your stitcher to operate at higher speeds since output no longer depends on the ability of personnel to stack and jog books manually.

## MULLER-MARTINI

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