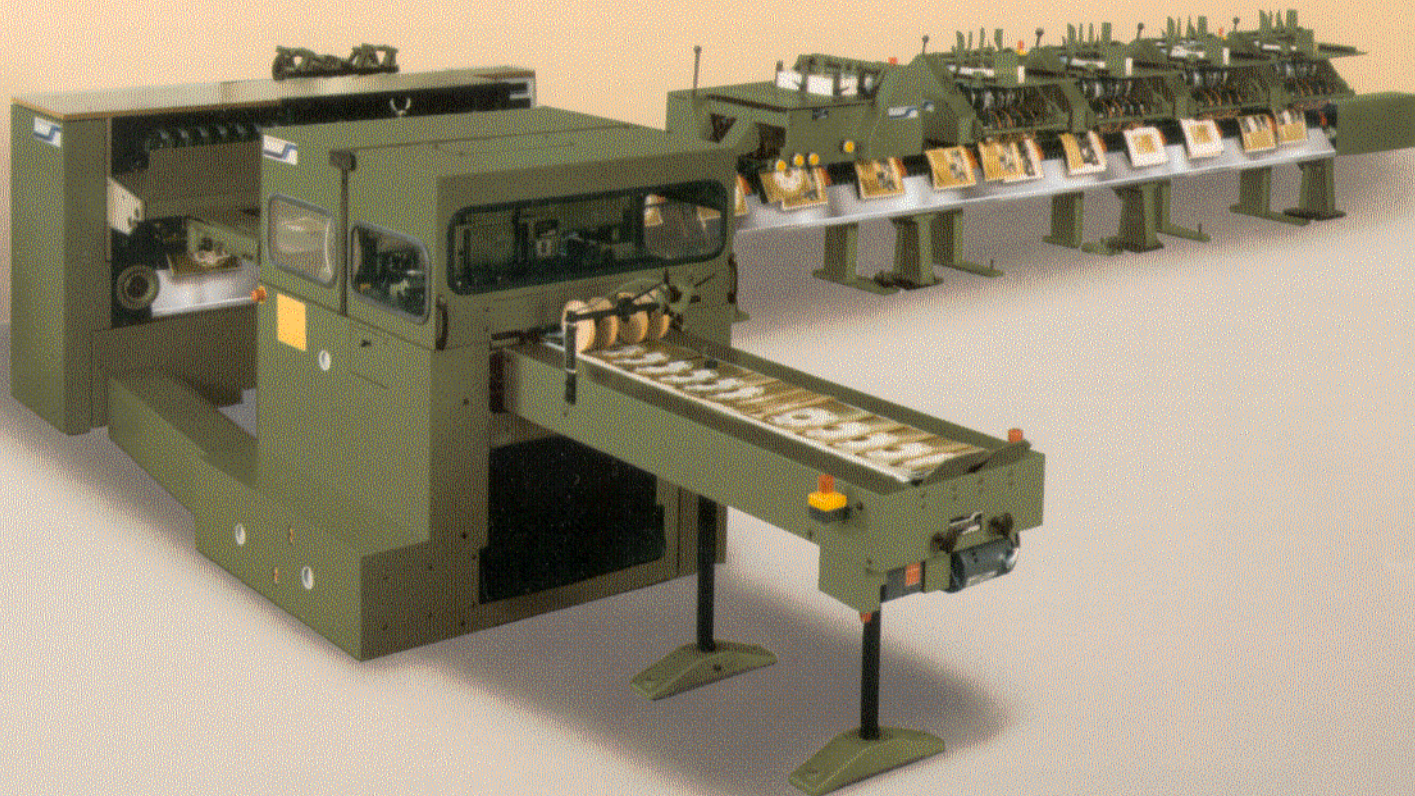


321-FOX

Saddle Stitcher



- Fastest makeready of any medium speed saddle stitcher
- Versatility to handle a wide variety of work efficiently
- Individual 2:1/1:1 gearing
- Heavy-duty, in-line single book trimmer

- Unparalleled ease and simplicity of operation
- Compensating stacker for greater productivity
- Modular design — feeders and accessories can be added as your needs grow
- Optional 4th and 5th knife for 2-up work

Low-silhouette design for more efficient loading and greater output

MULLER MARTINI

The versatile, highly productive FOX

The 321-FOX enables you to handle all size runs and types of work efficiently. Full service capability allows you to control quality and scheduling, and shortens delivery time for brochures, publications, catalogs and manuals. Your products are stitched and trimmed in one operation.

Description

The FOX is a heavy-duty, fully automatic saddle stitching line, fed and operated from the front so there is no need to run behind the machine. "Flying" stitching heads assure precise stitching with no stop-and-go motion for less wear. The built-in plus/minus caliper detects missing and double signatures. Imperfect books are automatically diverted, unstitched, into a reject tray without stopping the machine. Low-silhouette design allows waist-high loading for more efficient operation.

Twin feeders are equipped for both mechanical and vacuum opening. They load from the top and feed from the bottom to assure continuous operation. Feeder size adjustments take only a minute or two. Pockets can be timed individually and have 2:1 gearing (double drop) capability.

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

The building block principle allows you to upgrade the 321-FOX for additional capabilities. You can add, in-line at any time:

- Feeder pockets in multiples of two
- Folder feeder to eliminate off-line operation
- 3-, 5- or single-hole punch to expand capabilities and efficiency
- 4th and 5th knife attachment for increased production
- Stitching heads for close stitch spacing
- Loop stitching heads provide unique flexibility
- Postcard kit for special small sizes
- Trim removal system — automatically moves paper trim to a waste container for a clean, more efficient operation
- Stacker to reduce handling and increase productivity



Muller Martini's U.S. headquarters.

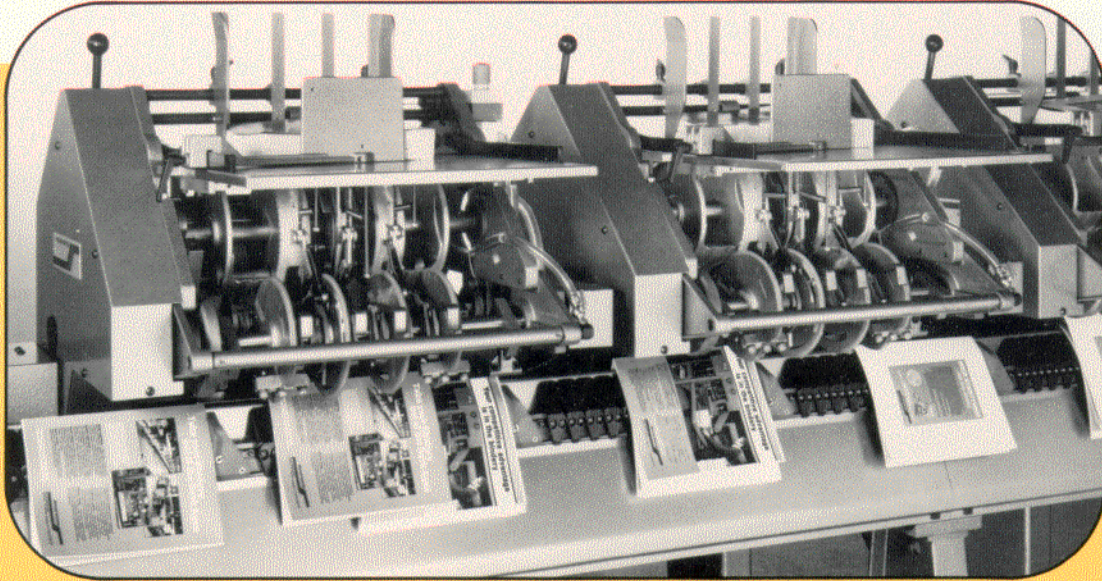
When investing in new equipment, the back-up you can expect from the manufacturer is as important as the capabilities of the machine. Dependable service, quick parts availability and technical support will protect your investment for years to come.

Single source responsibility is the key to dependable service. Muller Martini can offer you single source responsibility because we have control over the research, development, manufacturing, assembly, sales and service of our products.

Designed, manufactured and serviced by Muller Martini, the FOX is a true production machine which makes finishing profitable for the small to medium size plant — even for part-time operation.

Single Source Responsibility

Waist-high Loading

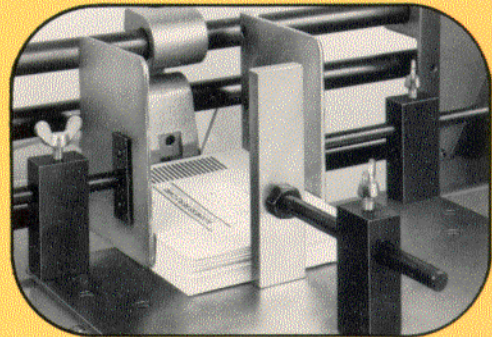


Twin feeders have both mechanical and vacuum opening. They feed signatures, cards and envelopes, with or without lap, closed or open head. Flat pile feeding assures easy, efficient loading. The short drop to the chain provides positive control.

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 easy timing of individual pockets. Versatility and efficiency are assured by individual 2:1/1:1 operation. Unused pockets can be idled to conserve energy and save wear-and-tear.

An optional small size kit facilitates feeding of small cards. The kit is quickly mounted on the feeder table. Movable suckers are available for products with short leg.

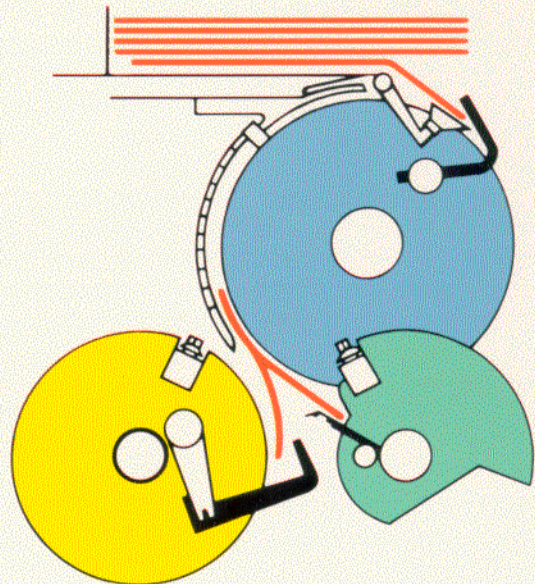


Feeding Principle

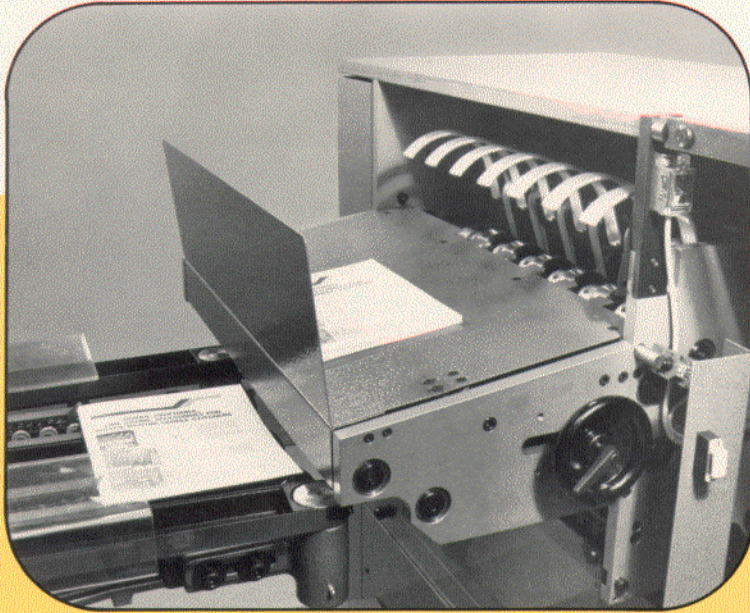
Signatures are stacked on the feeder table. The bottom copy is separated from the pile by air blast and suction. It is then pulled around the drum by cam operated grippers. Pile retainers hold the remaining signatures in position.

Flat pile feeders are easy to load and handle a wide variety of signatures efficiently. Flat loading pockets enable more positive control of large tabloid sections and curled or poorly folded signatures.

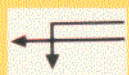
Easily adjustable stops position the signature in the cradle where it is opened by grippers (signatures with lap) or vacuum (signatures without lap). The signature is then placed on a sword for subsequent pick-up by the chain. Short drop assures reliable operation.



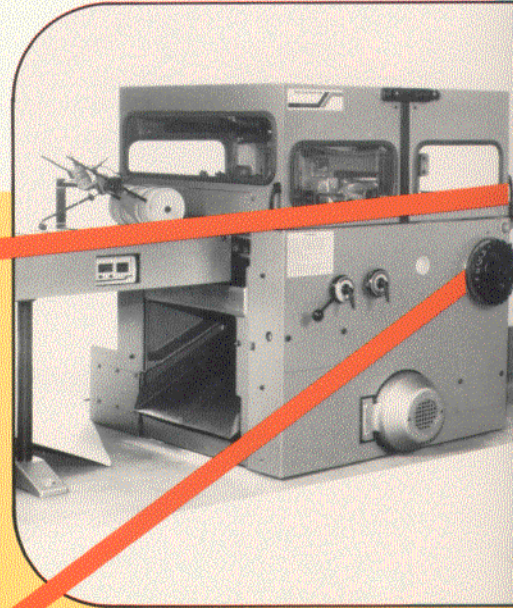
Quality engineering



Unmatched Economy



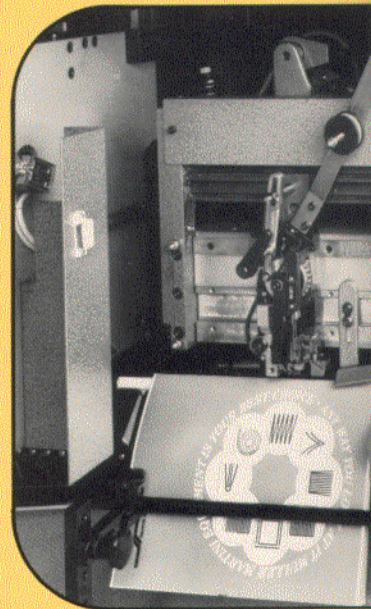
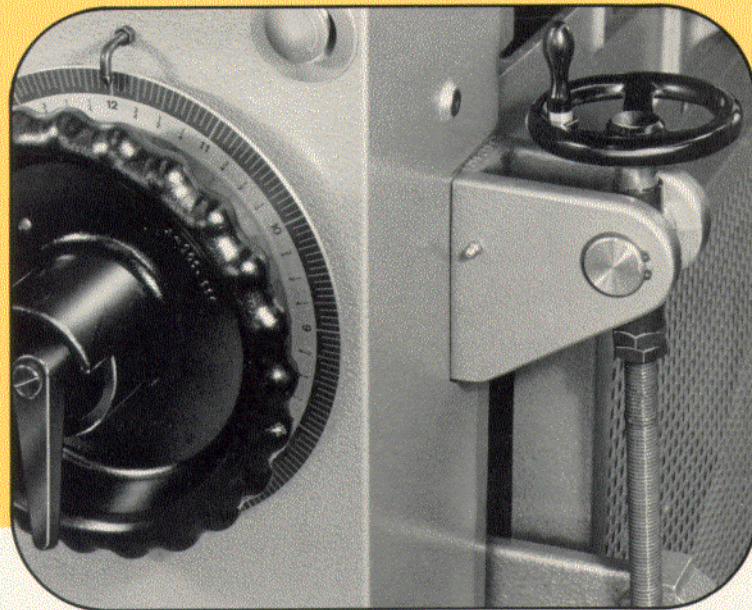
Incomplete copies are diverted, unstitched and untrimmed, so that signatures can be reloaded into the pockets. This feature is especially useful during makeready. The reject tray is conveniently located on the front side of the machine.



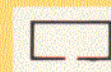
Versatile, efficient operation



Variable speed control, infinitely adjustable, allows you to tailor machine speed to each job. The FOX can be run at slow speeds to allow one person to feed signatures and take off finished books.



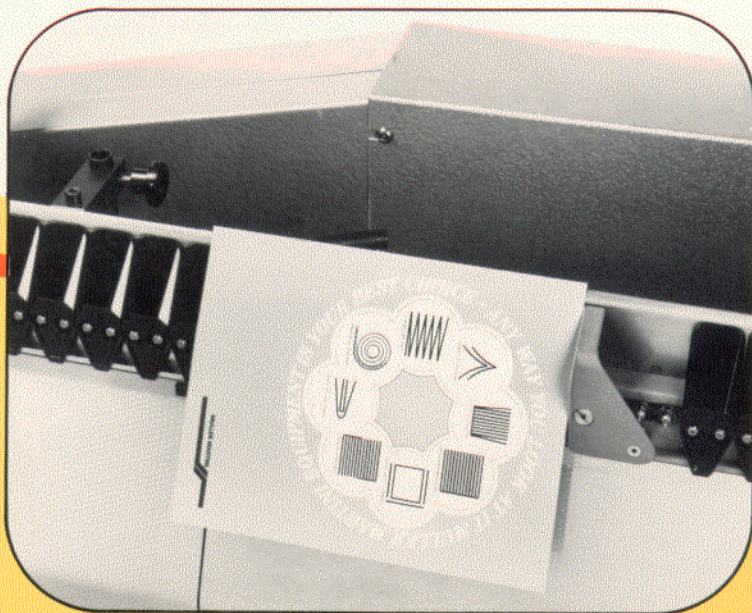
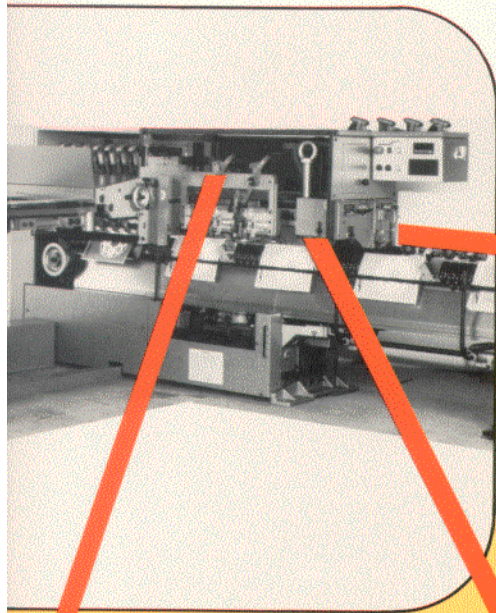
Simplest stitching heads



"Flying" stitching heads guarantee positive and precise stitching at high speeds. The heads move with the chain, stitching the book at chain speed and eliminating stop-and-go motion for less

make the FOX

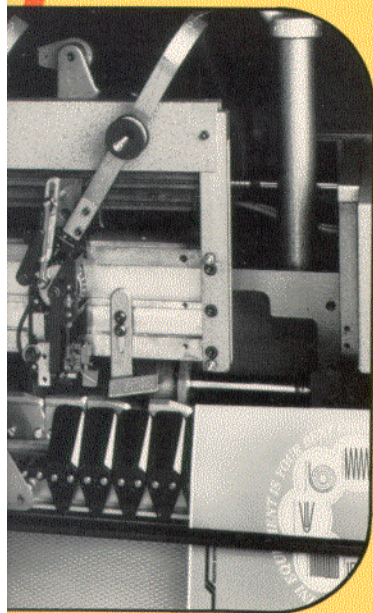
and craftsmanship



Dependable, non-stop operation



The continuous heavy-duty steel chain is plastic-clad to protect books, assure quieter operation, and reduce static and wear. The unique profile allows products to sit snugly on the chain and holds all types of books securely.



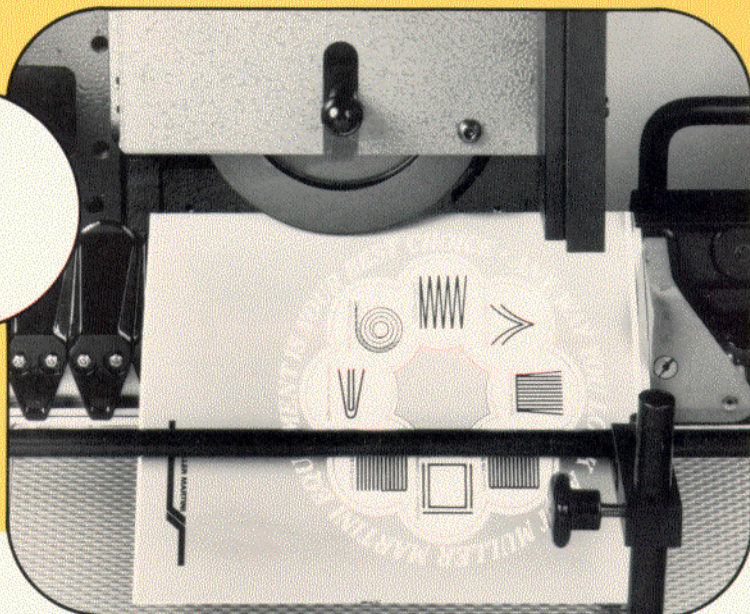
Every book a perfect book



The built-in, plus/minus 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 are delivered.

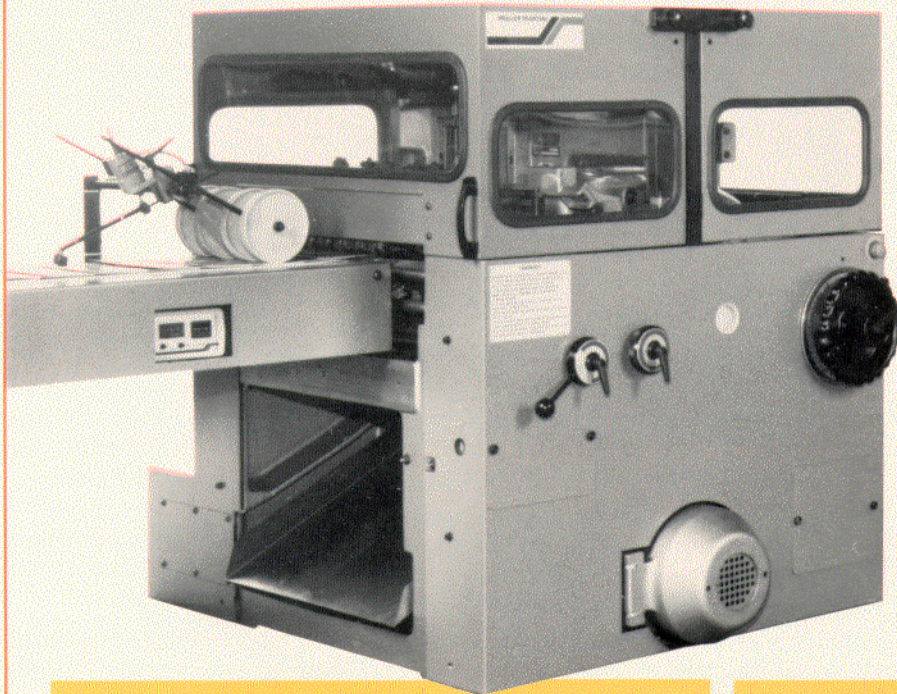
is in the industry

wear. The stitching heads contain few moving parts to assure dependable service and easy set-up. Special stitching heads with narrow centers are available for small size 2-up work.



a lasting value

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



3-Knife Trimmer

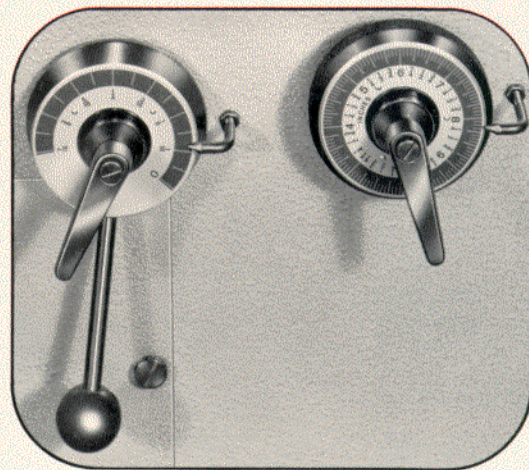


Books are fed into the 3-knife trimmer and accurately aligned against the spine. Head and foot are trimmed in the first knife station, the front in the second. Books are pulled rather than pushed into the knife station for precise register to the spine and square trimming, even with poorly folded, oversized, or very light sections. A clean cut is guaranteed by heavy-duty, hold-down clamps and shear action of the knives. Single point waste discharge adds to operator convenience. Guards are lined with special sound absorbing material for quiet operation. Upper guards are counter-balanced for more convenient use.

Stitched products are delivered, shingled on the belt delivery. Independent, variable speed drive allows speed adjustment for most efficient spacing and handling of brochures.



050 The counter/kicker of the belt delivery provides 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. An accurate count is provided by the totalizer.

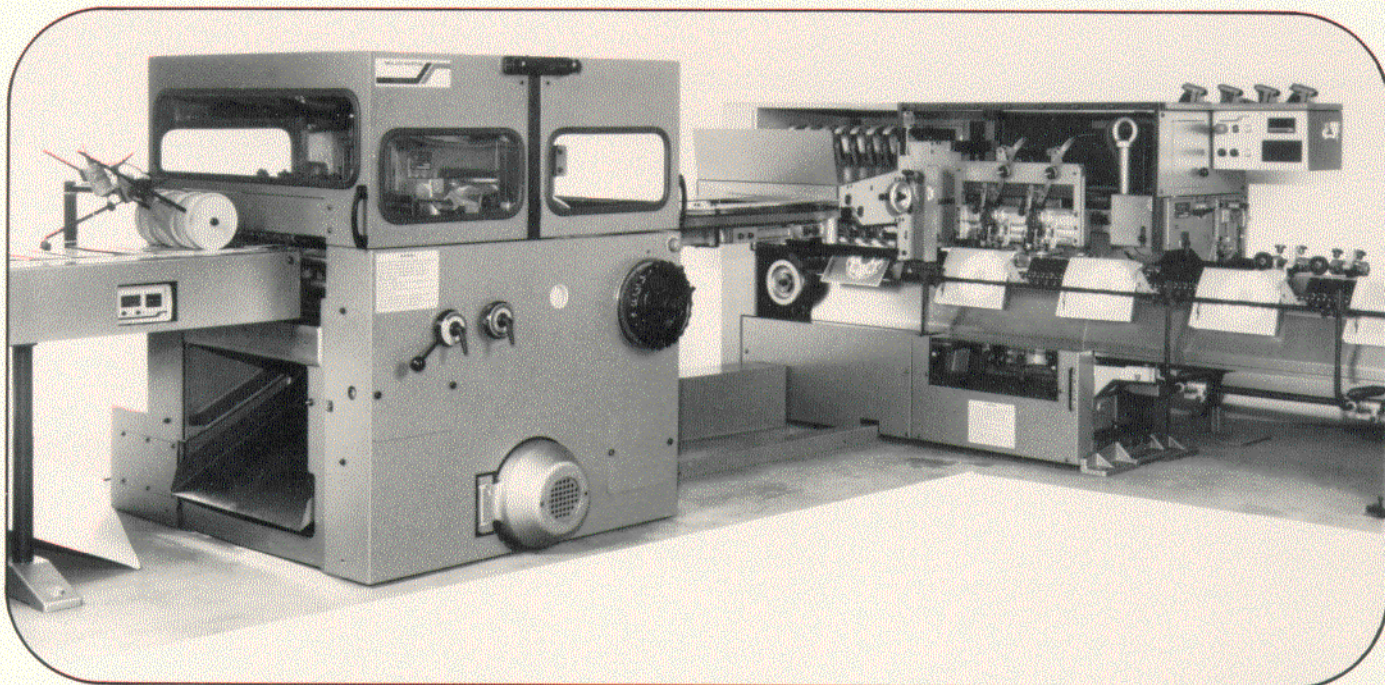


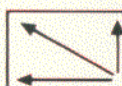
Scales & Dials



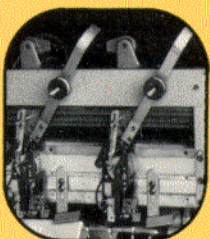
The use of scales and dials for wrenchless adjustments cuts your makeready to get you in production sooner. You can set up the FOX in minutes and produce quality work. Quick makeready gives you the competitive advantage with any size run.

Never a need to run behind the FOX

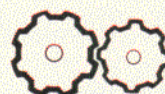
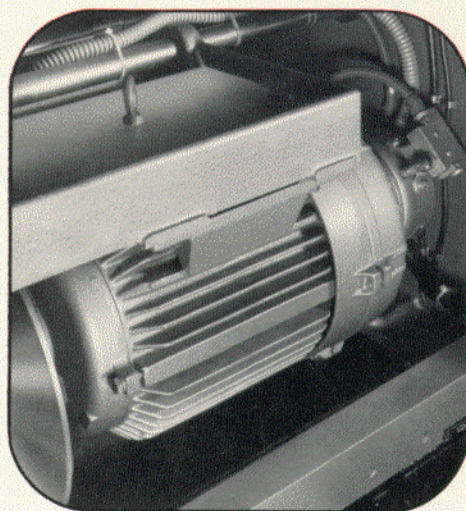


 The FOX is an extremely compact, "L" shaped machine requiring little floor space. It can be tucked into a corner or placed close to a wall, since all operating and feeding is from the front. The space inside the "L" — the control zone — is used to stage skids of signatures and store finished work.

From his control zone, the operator can feed the pockets, see signatures on the chain, insure that wire is fed into the stitching heads, observe the transfer into the trimmer, and have immediate access to all controls and the reject tray. There is never a need for the operator to run behind the machine.

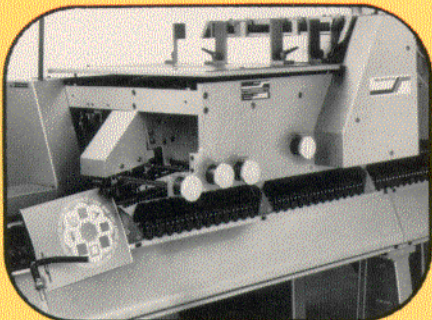



Simple, wrenchless size adjustments assure lightning-quick makeready and permit the use of less skilled personnel. These savings in time and labor costs provide the lowest possible cost-per-book, while maintaining highest quality. Quick makeready gives you profitable production and the competitive advantage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

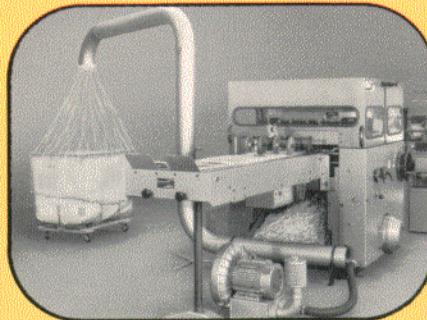



The modern drive system requires little maintenance. The powerful motor and helical gear drive provide smooth, long-life operation. Splined shaft drive with universal joints means no drive belts or chains.

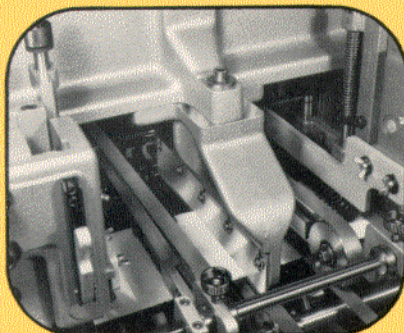
Easy-to-add accessories for greater versatility






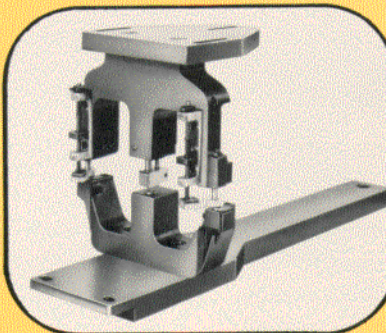
 **Folder Feeder** — folds products directly in line with the saddle stitcher. Off-line folding is eliminated — along with the folding machine, folder operator, extra space and handling. This exceptionally versatile feeder handles covers, cards, signatures, TV programs, comic books and preprints at full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



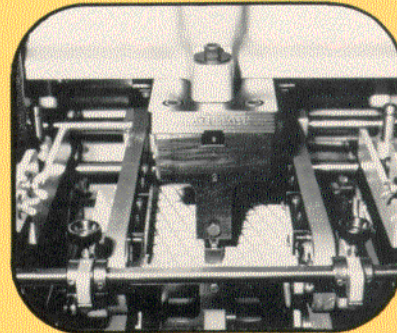
 **Trim Removal System** — Moves paper trim from the 3-knife trimmer to a waste container by continuous air flow, eliminating floor sweeping. It is simple to install and inexpensive. The system provides a clean, more efficient stitching operation and includes blower, trim collector, ducts and air net.




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

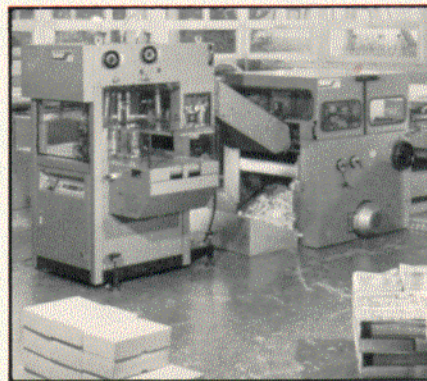
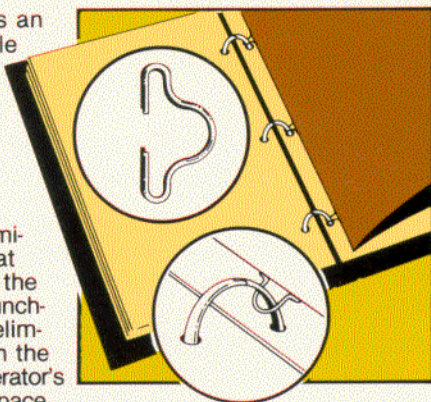


A 4th and 5th Knife can be mounted on the trimmer to double your production. It offers the choice of splitting the book or trimming out the center, depending on individual job requirements. The **Punching Devices** are heavy-duty attachments for in-line punching, simultaneously with the trimming operation at full speed. The **Single Hole Punch** is an economical way to provide a hole for hanging calendars.



 **Compensating Counter Stacker** — Eliminates bottle-necks at the delivery. Allows stitcher to run faster, while reducing physical work. Produces neat, square stacks for less handling and waste, assuring greater, more consistent production on subsequent machines. Provides a reliable count. Allows the person on the delivery to simultaneously operate an off-line tying or drilling

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



machine, or feed mailing or shrink wrapping equipment. Stacks can be delivered to the left or right to fit any layout requirement.

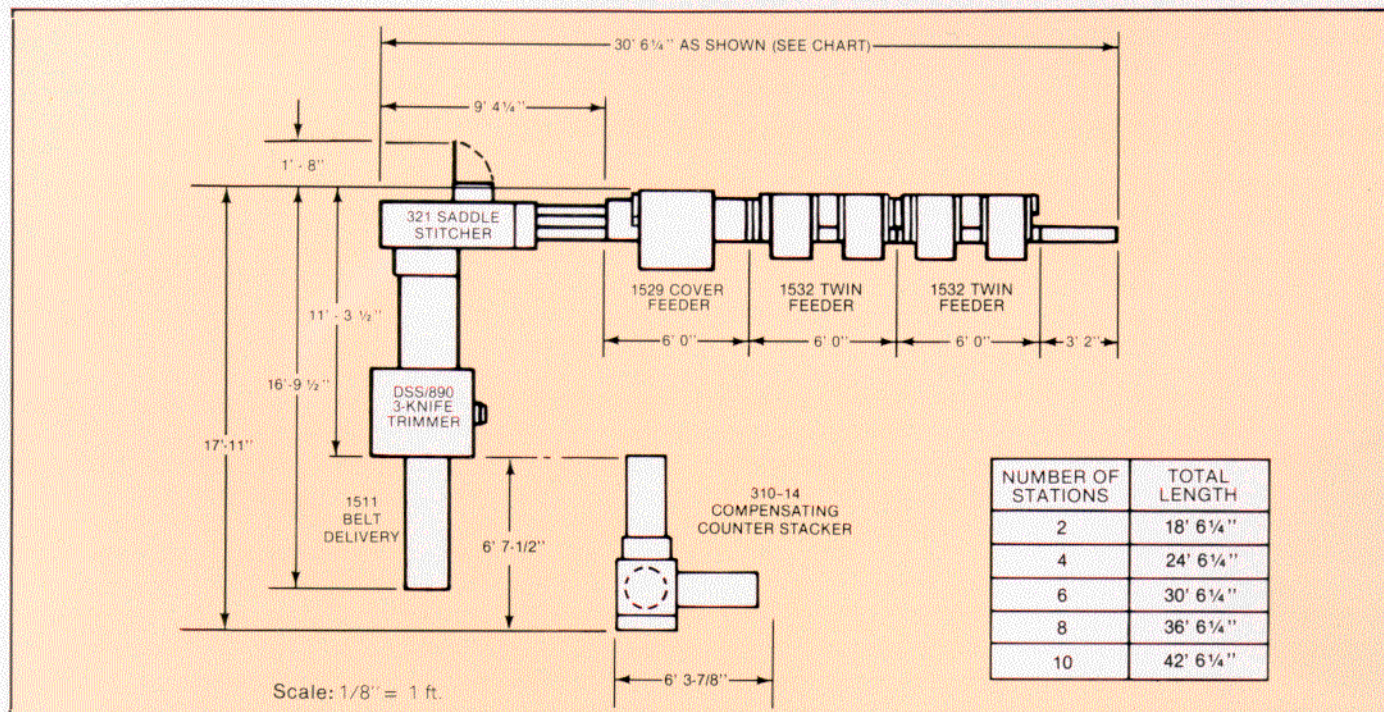
MULLER MARTINI

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Printed in U.S.A.
 B-321-F (E-CC)

321-FOX

Saddle Stitcher



Specifications

321-FOX Saddle Stitcher • Feeder 1532 • Trimmer DSS/890 • Belt Delivery 1511

Sizes

	Width		Backbone Length	
	Untrimmed	Trimmed	Untrimmed	Trimmed
Maximum	12-5/8"	11-3/4"	18-7/8"	18-1/2"
Minimum, standard	4-1/8"	4"	6"	5-3/4"
Minimum, optional	4"	3"	4-1/8"	3-7/8"
Postcard kit, for feeder, minimum	4"	—	3-1/8"	—
4th & 5th Knife				
Maximum	12-5/8"	11-3/4"	18-7/8"	9-1/4"
Minimum, standard	4-1/8"	4"	12"	5-3/4"
Minimum, optional	4"	3"	8-1/2"	4"

Loading table height	43"
Mechanical speed (maximum)	10,000/hr.
Maximum book thickness	
standard	3/8"
with pneumatic pressing (house air required, .5 cfm @ 40 psi)	1/2"
Approximate weight	11,600 lbs.
(4 feeders, stitcher, trimmer, compressor, and stacker)	
Electrical requirements	230/460V, 60 cps., 3-phase
(other voltages on request)	
Power, with 4 feeders (including one compressor)	14.0 H.P. (10.5kW)
For each additional compressor add	6.5 H.P. (4.8kW)
Design, specifications, and measurements subject to change.	

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