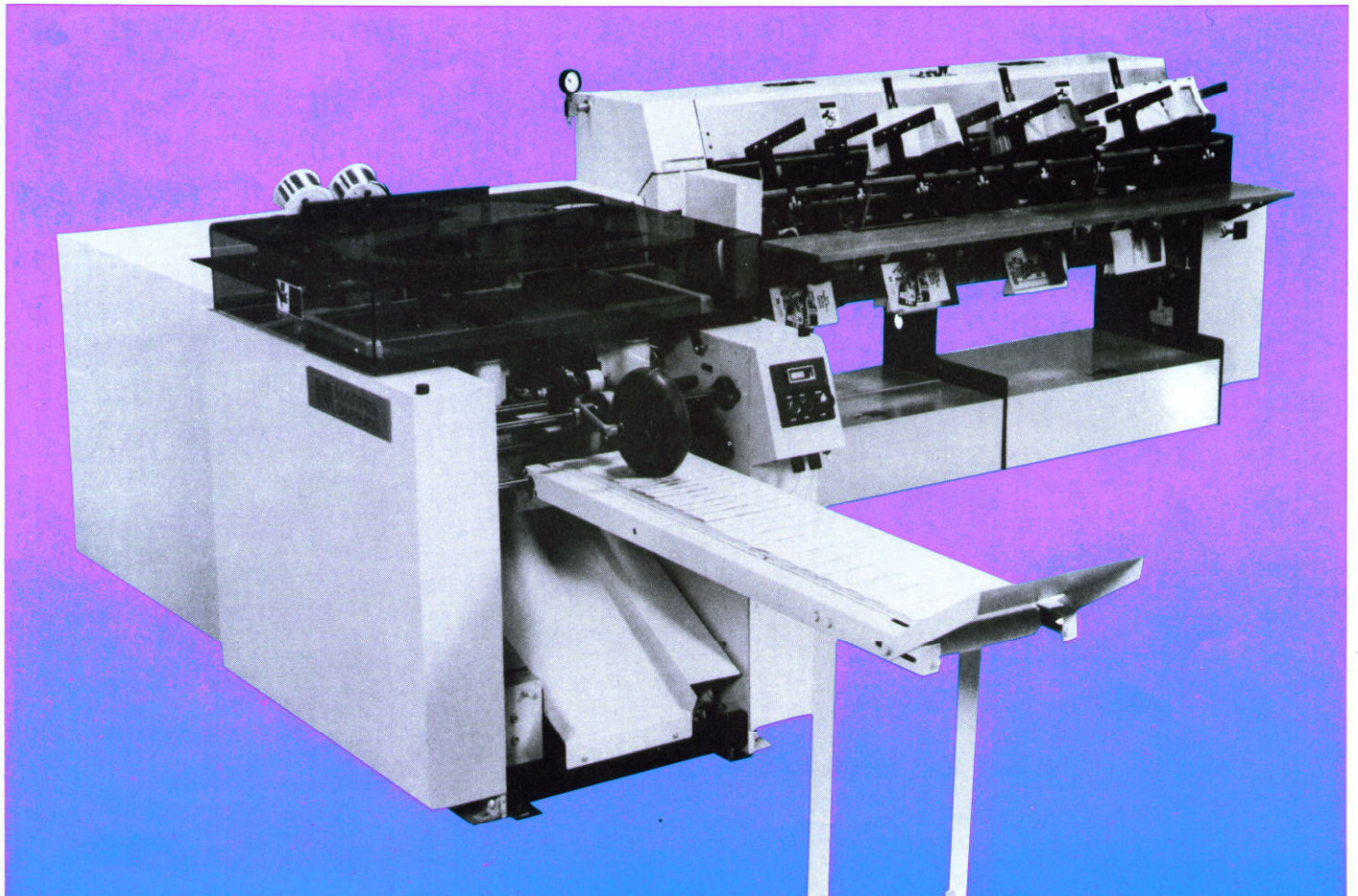
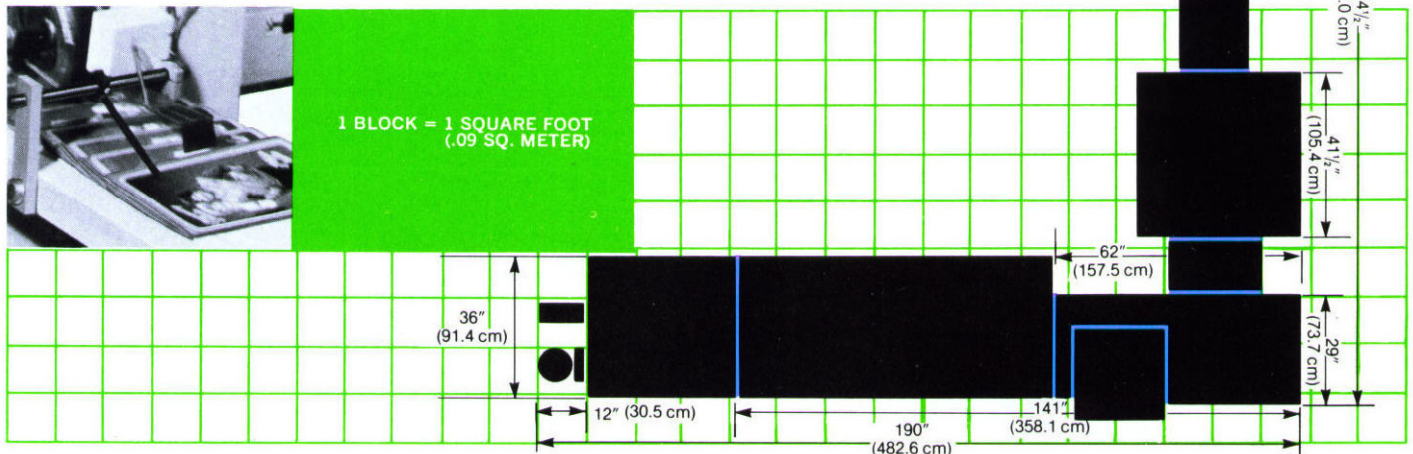


Introducing the new Saddlebinder 450

The low-cost saddle-gatherer/trimmer for the majority of your saddle-stitched booklet jobs

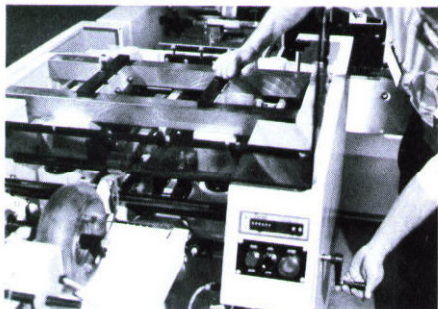
The Saddlebinder 450 was designed to handle the majority of your saddle-stitched booklet volume - the 8 to 16 to 32-page plus cover booklets in the 1000 to 2500 to 5000 to 25,000 run length. ■ It was designed for the smaller trade binder, the average commercial printer, the inplant printer or anyone who needs a low-cost but productive saddle-gatherer/trimmer. It is the ideal supplement to high-speed saddle machines to handle overflow work and the short-run jobs.

■ The Saddlebinder 450 is simply but ruggedly constructed to deliver reliable performance. Makeready is virtually tool-less with convenient operating features to minimize labor requirements. And it is sturdy but compact to take up less floor space.

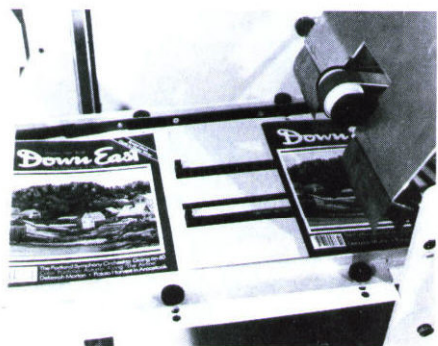


SADDLEBINDER 450 SETS-UP FAST

Set-up is simple, fast, virtually tool-less and easy to learn. Here are the nine steps for a complete changeover from one book size to another.



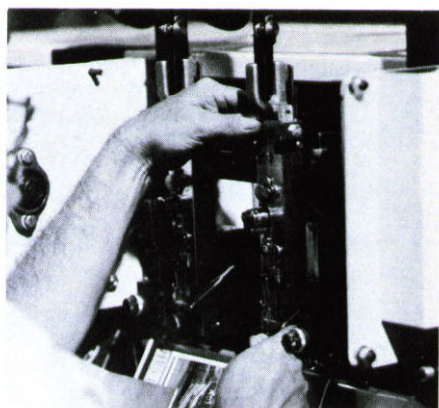
1. **Set trimmer** using quick-action hand clamps, dials, and scales. Trimmer is completely open to let you see what you're doing.



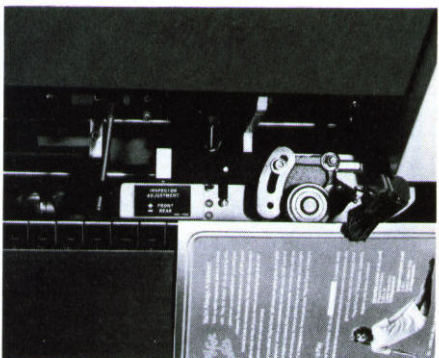
2. **Time trimmer** for book size using the entrance scale.



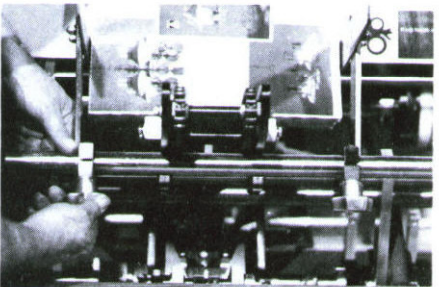
3. **Center book for trimmer entry** by declutching conveyor chain, moving chain and conveyor finger to contact book.



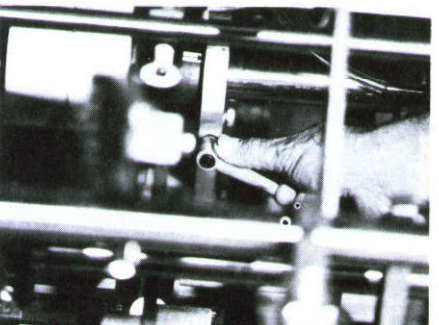
4. **Set stitcher heads** by loosening lock levers and moving them to desired position. Align the clinchers. Dial the correct wire feed for book thickness.



5. **Set inspector** by flicking "set" switch and jogging machine until "set-up" light comes on. Unlock inspector wheel, place sample book under it, move detector collar into position and lock. Release detector collar and you're set to detect both "unders" and "overs."



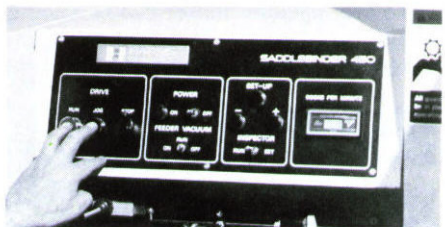
6. **Set hoppers** by loosening two knobs and moving guides to signature size and tightening knobs.



7. **Signature transfer/opening** setting is made by dialing the signature width on the graduated scale. One movement sets transfer cradle stops, transfer gripper opening cam and inner opening drum cam.

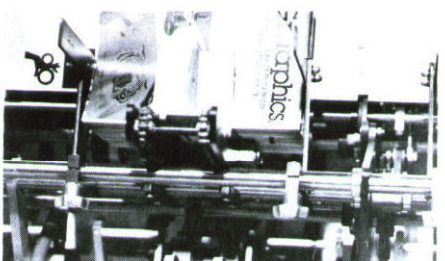


8. **Time signature drop** by jogging machine until signature is on the bayonet. Disengage the feeder-opening drive. Jog the machine until the pusher finger on the conveyor chain is about 3" (76 mm) from book. Re-engage drive.

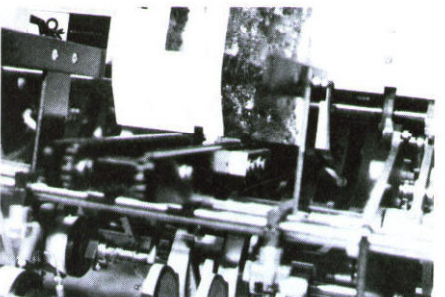


9. **Ready-to-run.** Load the hoppers. Jog the machine to make certain all stations are timed properly. Press "start" button and adjust stepless hand crank for maximum production speed.

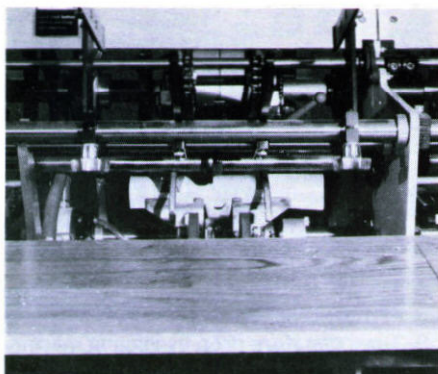
POSITIVE SIGNATURE HANDLING



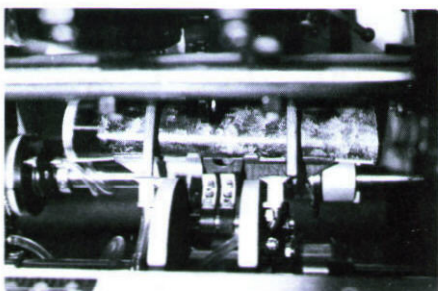
Edge-feeding hoppers free signatures from jam-inducing weight encountered with horizontal, bottom feeding designs. Marking and mis-feeds due to weight drag are virtually eliminated.



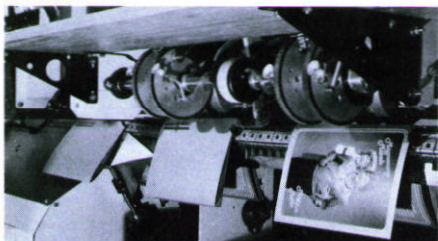
Signature is effortlessly separated by telescoping suckers and conveyed by grippers on the transfer wheel. Grippers positively place signature in precise position against register stops in the transfer cradle. Cradle drops-away to prevent damage and facilitate clearing a misfeed.



Two outer grippers on inner opening drum move signature toward outer opening drum. Outer grippers release and center gripper holds lip on bottom half of signature. Vacuum sucker can be used in conjunction with or in place of center gripper.

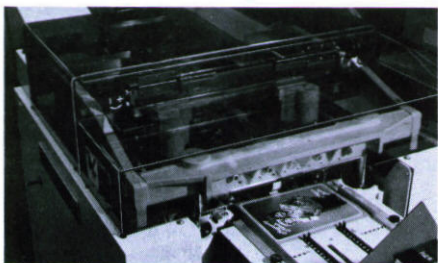


Double outer opening grippers, in combination with double vacuum suckers, positively open and control outer leg of signature. Grippers and suckers are quickly positioned by turning the outer opening drum.

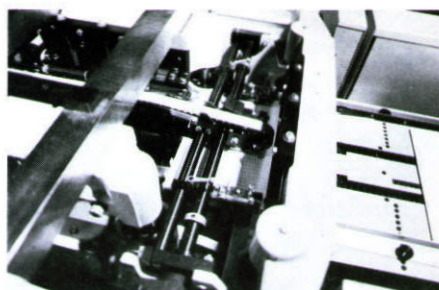


Once opened, signature drops smoothly on bayonet. Pusher fingers move opened signature off bayonet and onto crowned conveyor chain in perfect register. Exceptionally short signature drop assures precise positioning.

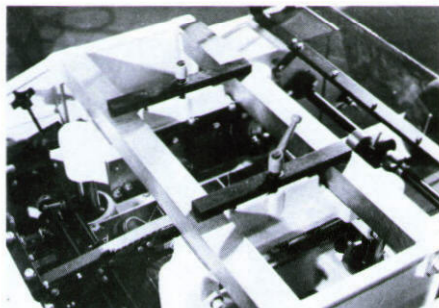
SMOOTH, PRECISE TRIMMING



Register Belt controls the book throughout the trimming operation. Belt stops when book is being trimmed so there is no marking from belt slippage.



Register Belt moves book, guided at the head and foot, against the front stops. The book decelerates as it approaches the stops to assure precise positioning. The belt raises and the face cut is made.

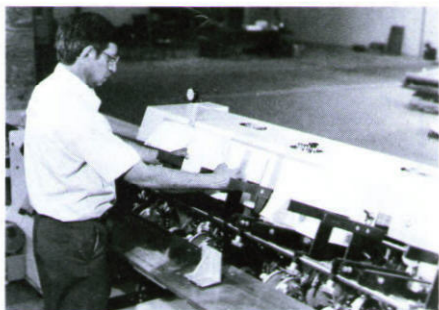


The book, firmly gripped by the Register Belt, is moved into register position for the head and foot trim. The Belt is adjustable for book thickness.



Maximum trim is 2" (51 mm) on all three sides. Maximum thickness is 3/8" (9.5 mm) compressed.

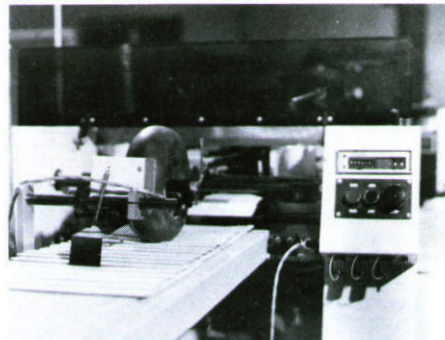
EASY-TO-OPERATE



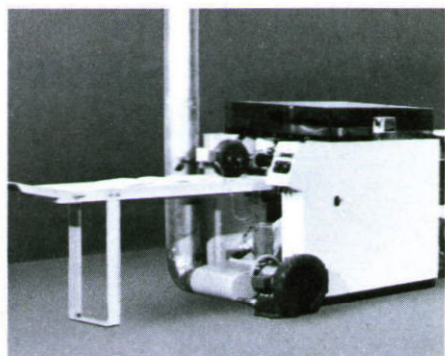
Operator efficiency is increased by simple, compact, easy-to-operate design. Pockets are 18" (457 mm) center to center and only 4 feet (1219 mm) high to reduce the "reach" required for loading. One-side loading/operating feature permits space-saving positioning against the wall.



Control Zone design centralizes controls at the stitcher and every second station for operator convenience.

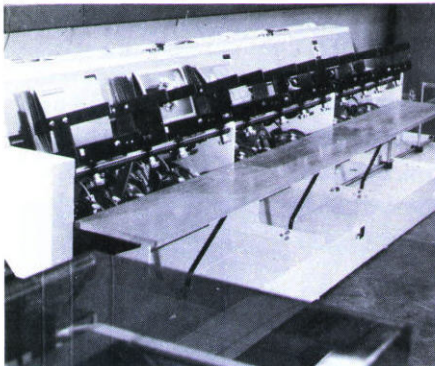


Optional batch counter permits gathering finished books in pre-determined lots. The lot count number is dialed and a finger holds back the appropriate book to indicate the start of the next lot.

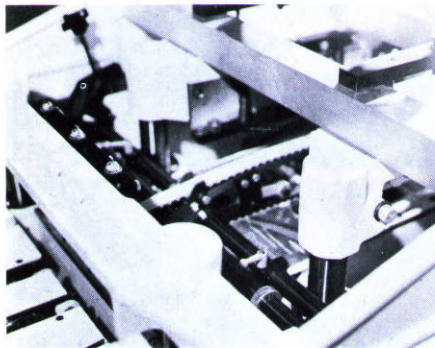


Optional chip disposal system can be hooked to a central disposal system or directly into a scrap bin near the machine.

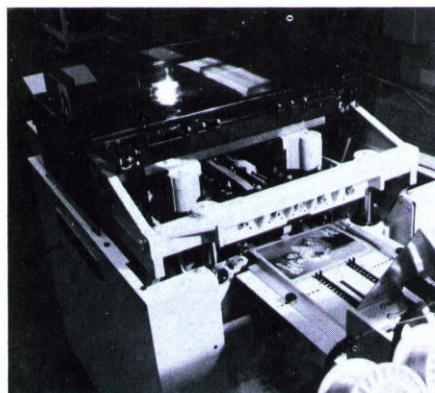
SADDLEBINDER 450 COMPACT, STURDY RELIABILITY



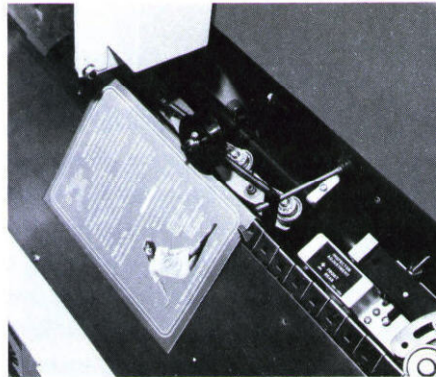
Increased reliability and reduced maintenance are the benefits of simplified mechanical and electrical design. Side frames are on 36" (914 mm) centers with heavier support shafts. Steel-plate frames provide extra strength without unnecessary weight.



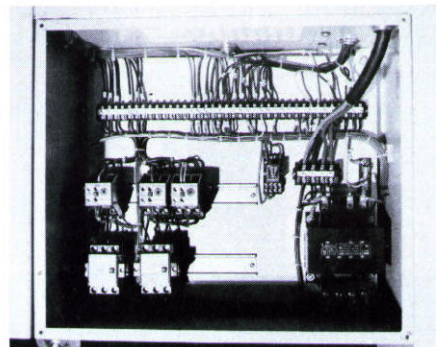
Trimmer uses 2-1/4" (57 mm) square knife bar supports for greater strength. Open design permits easy set-up.



Cutting knives, guided by a unique, ball-bearing sleeve, operate with almost zero play. No gibs or shims are needed to compensate for wear.



Shuttle guide consists of sturdy, firmly supported hardened shafts that let shuttle convey signatures smoothly at all operating speeds.



Self-contained electrical system requires no internal wiring at hook-up. Machine is just connected to an external power source and it is ready to go. Drive is smooth and stepless.



Centralized lubrication to critical areas, supplemented by easily-accessible grease fittings, keep maintenance time to a minimum.

Specifications:

(Subject to change without notice)

BOOK SIZE (TRIMMED)

Maximum 9 x 12" (228 x 305 mm)
9 x 9" (228 x 228 mm) oblong
Minimum 3 1/2 x 5 3/4" (89 x 146 mm)

SIGNATURE SIZE (UNTRIMMED)

Maximum 10 1/4 x 13 1/4" (260 x 336 mm)
10 1/4 x 10 1/4" (260 x 260 mm) oblong
Minimum 3 3/8 x 5 1/8" (92 x 149 mm)
1/8" to 3/4" (5 to 19 mm) constant lap for gripper opening

Maximum thickness 3/8" (9.5 mm)

NUMBER OF STATIONS

4 stations with multiples of 2-station additions up to 10.

SPEED (CYCLES PER HOUR)

Infinitely variable from 2500 to 8000. Production speed depends on size, thickness, number of stations and kind and condition of stock and other operating conditions.

FEEDER

Signatures on edge. 8" (203 mm) continuous pile capacity. Vacuum separation, double mechanical grippers with rotary transfer.

SIGNATURE OPENERS

Grippers and/or vacuum on inside and outside drums.

AIR AND VACUUM SUPPLY

Vacuum pump for feeders and signature opening.

SADDLE CHAIN

Crowned chain with easily removed pushers.

STITCHER

Heads stitch up to 3/16" (5 mm) thickness through crown of book. Two heads furnished. Machine is factory equipped to run 3 heads maximum.

DETECTOR

Pack inspector before stitcher detects both "over" and "under" books. Automatic throwout of stitcher and rejection of incorrect book.

CUTTING REGISTER

Book is register-guided into face cut area and securely held by Register Belt for head and tail cut.

KNIVES

Three cutting and three bed knives; cutting knives are guided by pre-loaded ball bushings - no adjustment for wear required. Shear action for cutting.

SETTING OF KNIVES

Single, hand-crank to adjust top and bottom cutting and bed knives. Face cut stops are set by direct measurement.

MAXIMUM TRIM ALLOWANCE

2" (51 mm) all 3 sides.

CHIP REMOVAL

Chips from under knives go into a chute onto the floor or into an optional chip disposal system.

DELIVERY

Belt conveyor indexes and counts only when completed book is delivered.

POWER REQUIRED

3 HP drive motor
1 1/2 HP pump motor

OPTIONAL EQUIPMENT

Hand feed station at take-up - Model 546 and/or ahead of inspector Model 548 - two feeding positions per section
Extra stitching heads
Extra set of knives - Model 613
Chip disposal system - Model 646
Counter/Stacker - Model RS-10
SignalPunch - Model 258U
Cover Folder/Feeder
Batch Counter