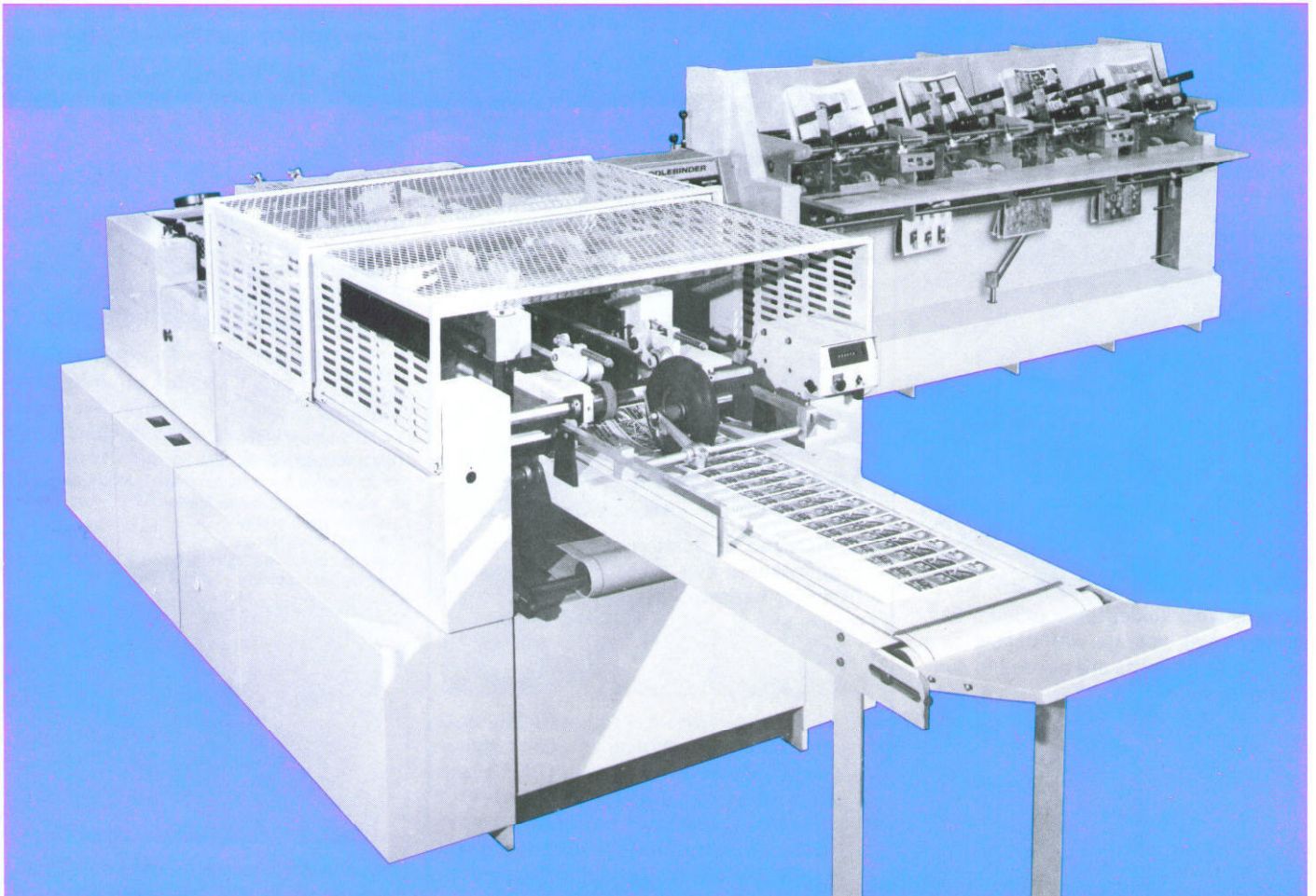
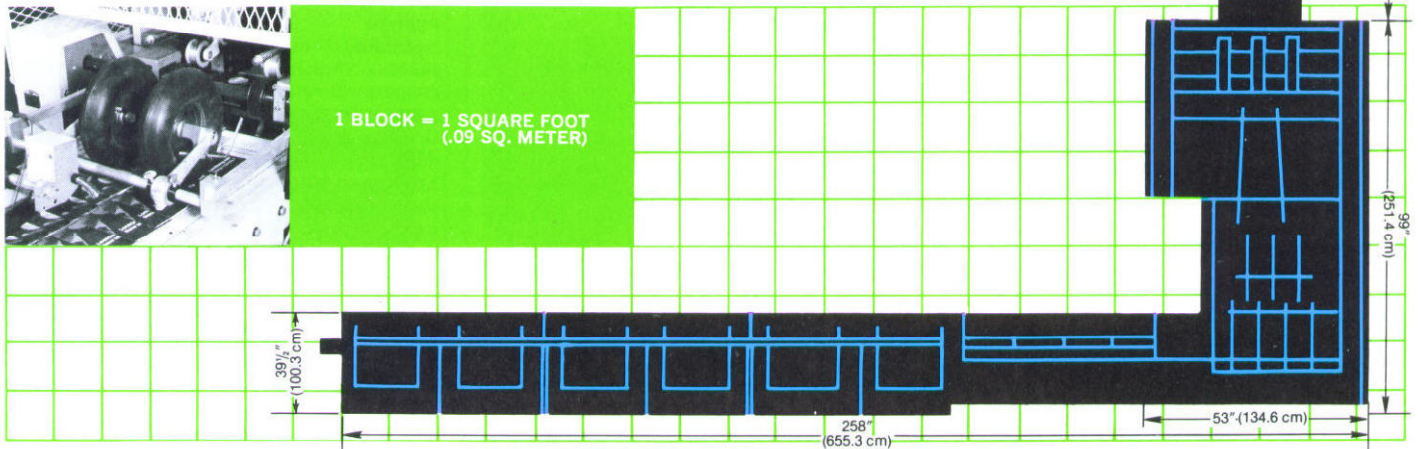


New Saddlebinder 562

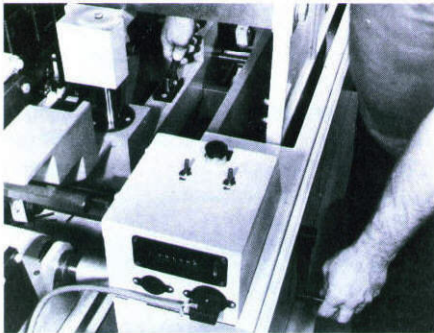
Fast makeready plus high productivity

The New Saddlebinder is more productive than ever with higher operating speeds and the fastest makeready on the market. Precise, mark-free signature control from hoppers through delivery means superior quality books. The combination of gripper transfer and inner and outer gripper/vacuum opening provides versatility for handling hi or low folio, lip or no lip, open or closed-head signatures. New high-speed trimmer, with Register Belt book control, delivers exceptional trim accuracy and quality. New 4th and 5th knife attachment can be installed or removed in minutes. Dial-A-Signature transfer/opening setting and more compact design greatly increase operator efficiency and productivity. Simpler, more rugged construction means reliable performance.

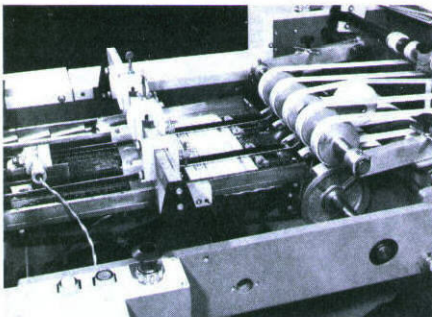


NEW "WRENCHLESS" MAKEREADY

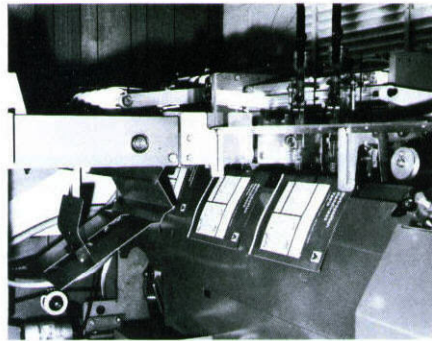
Makeready is virtually tool-less, simpler and even faster than the incomparably-fast-makeready for which Harris has always been noted. There are just 9 simple steps for a complete changeover from one book size to another.



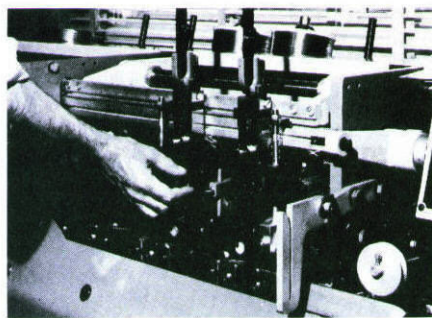
1. Set trimmer. Release quick-acting hand clamps and move knives to position for head and foot dimension. Loosen lever on register stops and move to face cut dimension. Loosen clamp and slide side-guides to signature dimension for precise entry into trimming area.



2. Time trimmer. With trimmer in set-up position, set book at finished dimension size on scale. Loosen collar, move pusher fingers to contact book, and tighten collar. Jog again until tail edge of next book is at center nip of ejector rollers. Note timing dial reading. Jog machine until pusher fingers are at center of ejector rollers nip. Declutch trimmer and jog until timing dial reading is the same. Engage trimmer.



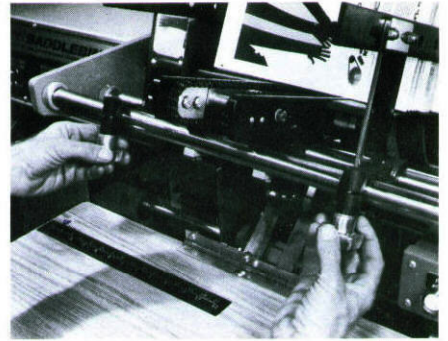
3. Center book for trimmer entry. Release lever to declutch conveyor chain. Move chain and conveyor finger to contact book. Lock lever.



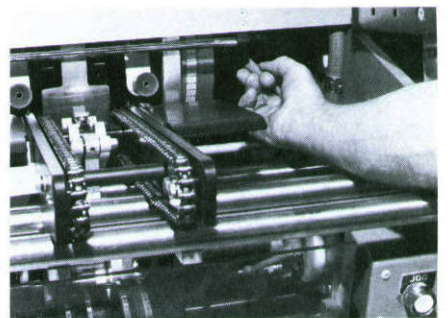
4. Set stitcher heads. Loosen lock levers and move heads into desired position. Align the clinchers. Dial the correct wire feed for book thickness.



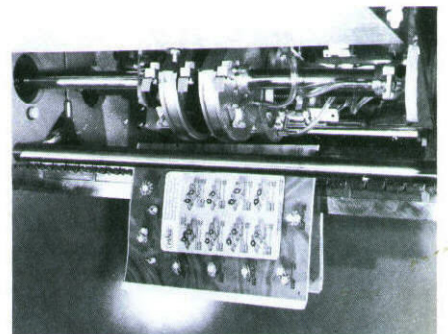
5. Set pack inspector. Flick "set" switch. Jog machine until keyway on the inspector wheel is in the up position. Unlock wheel, place sample book under it, move detector collar into position and lock the wheel into position. Release detector collar. Inspector is adjustable and detects both "under" and "over."



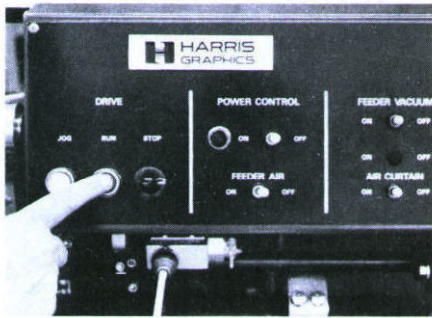
6. Set hoppers. Loosen two knobs and move guides to signature size. Tighten knobs. Untrimmed signatures from $3\frac{1}{2} \times 5\frac{3}{4}$ " to $12\frac{1}{2} \times 20\frac{3}{4}$ " (89 x 146 to 317 x 527 mm) can be handled. Reply cards with $1\frac{1}{2}$ " (38 mm) hanger can be fed at any station.



7. Dial-A-Signature transfer/opening. Dial signature width on the graduated scale. One movement sets transfer cradle stops, transfer gripper opening cam and inner opening drum cam. Three settings with one convenient dial. Outer opening drum is merely turned to correct position by hand. No other saddle-gatherer has this fast pocket set-up. Metal rules mounted on jogging board give quick check of signature size for setting.

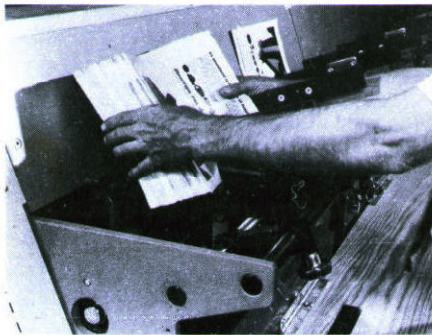


8. Time signature drop. Jog machine until signature drops. Move handle to "neutral" position to disengage the feeder-opening drive. Jog machine until pusher fingers are about 3" (76 mm) from book. Re-engage drive.

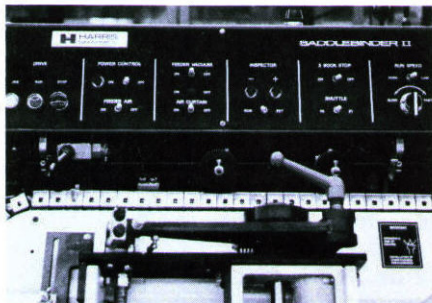


9. Ready-to-run. Load the hoppers. Jog machine to make certain all stations are properly timed. Press "start" button and adjust stepless control dial for maximum production speed.

NEW OPERATOR EFFICIENCY DESIGN

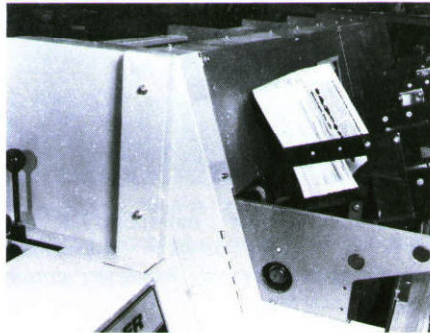


Simpler, more compact design makes the new Saddlebinder II easier to operate, service and maintain. The saddle-gatherer portion is two feet (610 mm) shorter in length (6 pocket model) and one foot (305 mm) narrower in width than the previous model. The trimmer section is two feet (610 mm) shorter. More compact design places hoppers 4" (102 mm) closer which greatly reduces the "reach" required for loading. One-side loading/operating feature permits space-saving positioning against the wall.

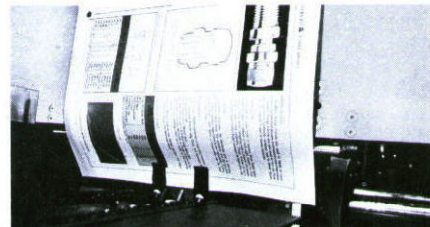


Control Zone design that centralizes controls at stitcher and every second station, makes the unit easier to operate than ever.

NEW POSITIVE SIGNATURE HANDLING



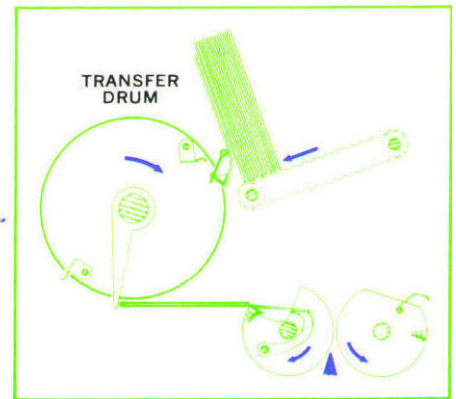
Edge-feeding hoppers free signatures from jam-inducing weight encountered with bottom feeding principle. Marking and mis-feeds due to weight drag are virtually eliminated.



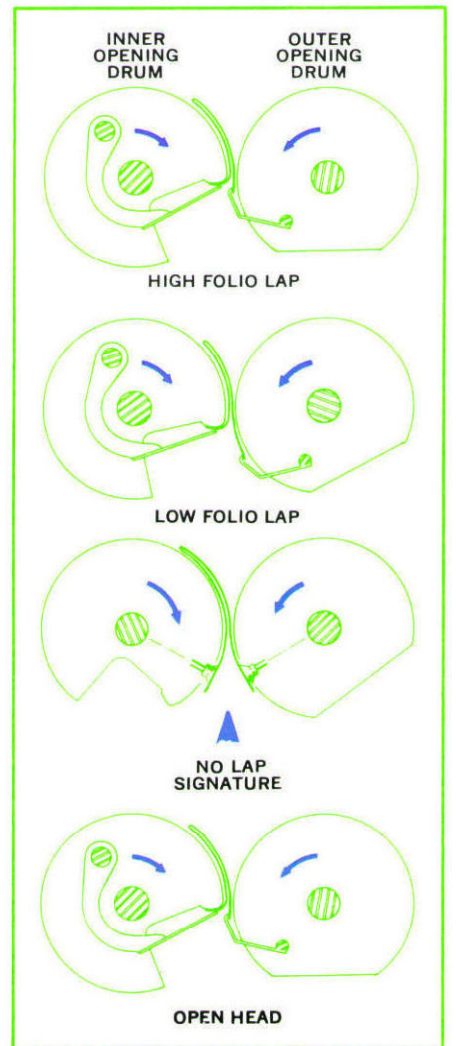
Signature is effortlessly separated by telescoping suckers and conveyed by grippers on the transfer wheel. Grippers positively place signature in precise position against register stops in the transfer cradle.



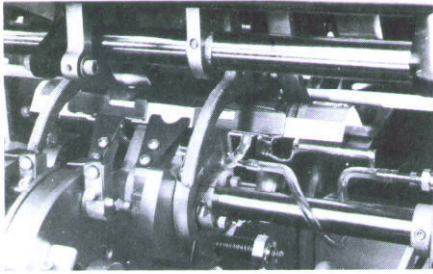
Double or two-to-one cycling is standard and the changeover is made by a simple hand-lever movement. It permits feeding difficult signatures at half-speed while running chain at regular speed.



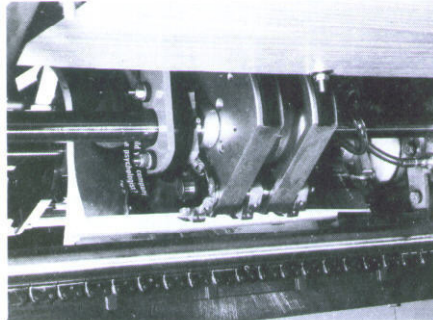
New gripper/vacuum transfer and opening system provides positive signature control at high speeds.



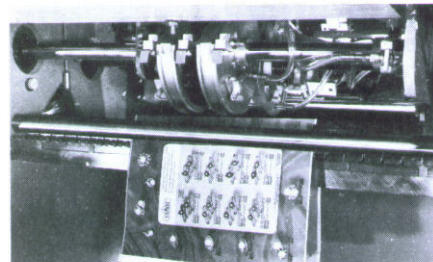
Complete range of signatures — high or low folio, lap or no lap, open or closed head—are handled with inner and outer gripper opening, vacuum-only opening, or a combination of vacuum, gripper and air-assist opening. Release of a latch changes from vacuum only to gripper and vacuum.



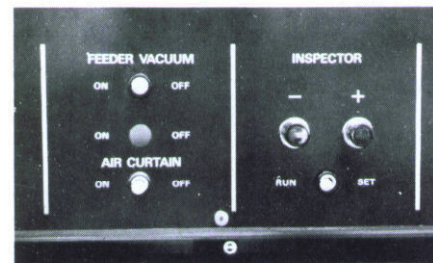
Two outer grippers on inner opening drum move signature toward outer opening drum. Outer grippers release and center gripper holds lip on bottom half of signature firmly against inner drum. Vacuum sucker can be used in conjunction with or in place of center gripper.



Triple 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 spring-loaded outer opening drum.

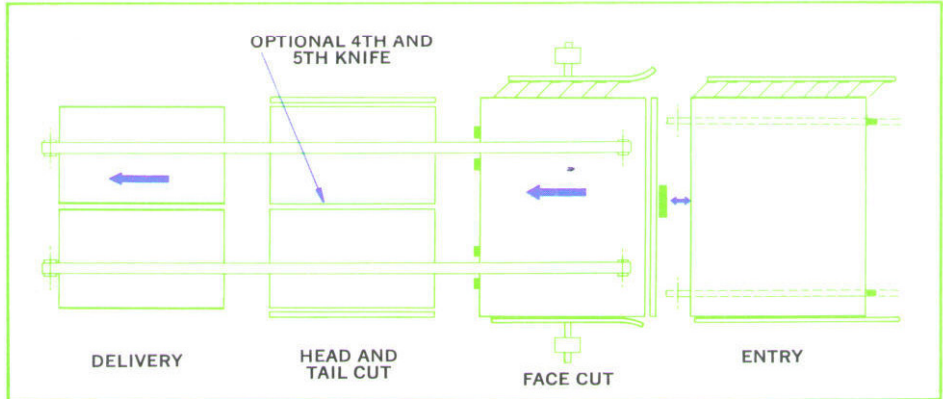


Once opened, signature smoothly drops on bayonet above crowned conveyor chain. Pusher fingers move opened signature off bayonet and onto conveyor chain in perfect register. Exceptionally short signature drop assures precise positioning. Conveyor chain can be raised if ever required.

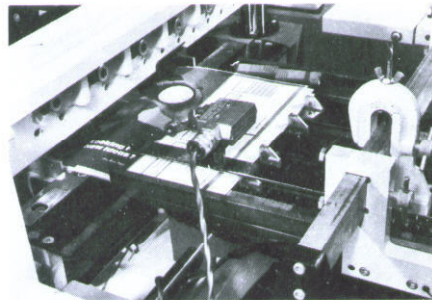


"Air Curtain", standard equipment, applies air pressure to either side of signature to hold it firmly on conveyor chain and prevent flare-out at high speeds. Separate air pump is mounted on main frame.

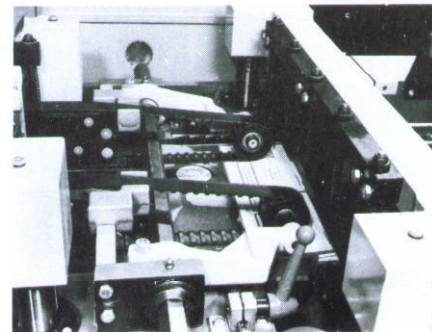
NEW SMOOTH, PRECISE TRIMMING



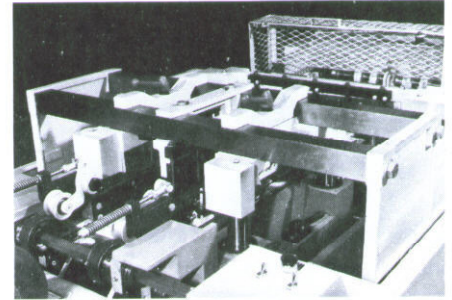
The trimmer is closely coupled to the stitcher section. Stitched signatures have only one transfer and register point from entrance to the trimmer through the face, head and foot trim to the delivery tapes.



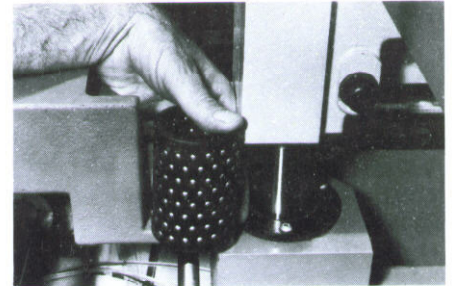
Register Belts control the book through-out the trimming operation. Belts stop when book is being trimmed. There is no marking because of belt slippage. Trim quality is excellent.



The Register Belts take over and move the book, again guided at the head and foot, against the front stops. The book decelerates as it approaches the stops to assure precise register at high speeds. The belts assure positive register. A tail guide holds the book firmly against the stops. The face cut is made.



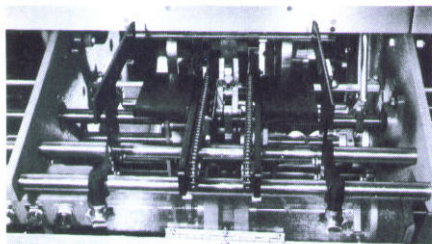
The Register Belts firmly grip the book and carry it, in register position, for the head and foot trim. The adjustable register belts hold the book firmly.



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

Maximum trim is 2" (51 mm) on all three sides to accommodate the waste margins sometimes encountered on web-press-produced signatures because of the fixed cut-off limitations. Maximum thickness is 1/2" (13 mm) compressed.

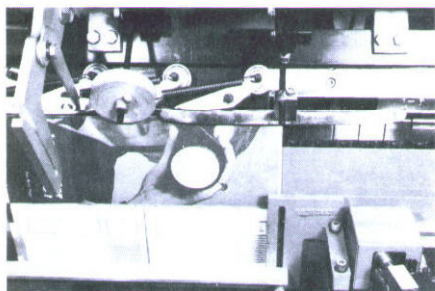
NEW INCREASED RELIABILITY



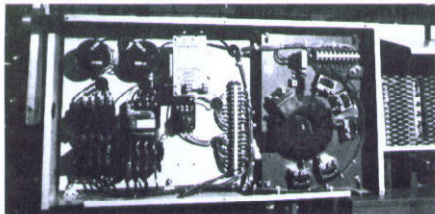
Increased reliability and reduced maintenance are the benefits of simplified mechanical and electrical design. Construction is sturdier throughout. Machine is built on 24" (610 mm) centers with heavier support shafts. Steel-plate frames provide extra strength without unnecessary weight.



Trimmer uses 2 1/4" (57 mm) square knife bar supports for greater strength. Open design provides easy chip removal.



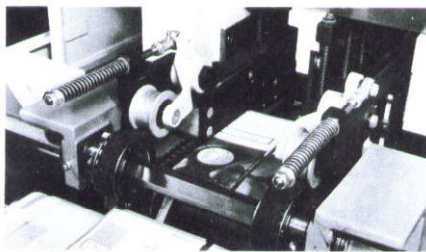
Shuttle guide is a heavy, chrome-plated rectangular bar, supported in four places for stability. It precisely conveys signatures at high speeds without flex or flutter. Change from 14" to 21" (356 to 533 mm) shuttle stroke is made by flicking a switch and repositioning the throw arm on the drive cam.



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

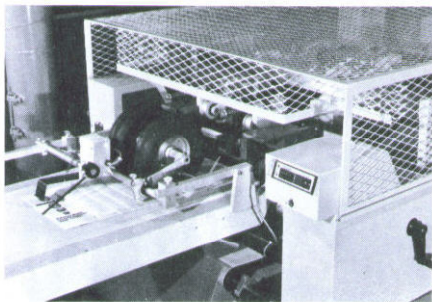
Centralized lubrication to critical areas, supplemented by easily-accessible grease fittings, keep maintenance time to a minimum.

OPTIONAL EQUIPMENT FOURTH AND FIFTH KNIFE



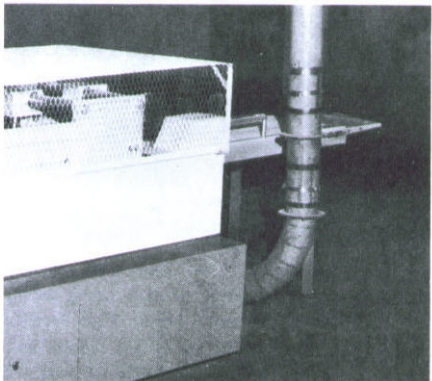
The fourth and fifth knife attachment is self-centering and can be installed in just 15-20 minutes. There is no need to install supplementary chains to convey center trimmed books out of the trimming area.

DELIVERED FOR PACKING



Batch counter allows you to gather finished books in pre-determined lots. Simply dial the lot counter number—from 5 to 100 books—and a finger holds back the appropriate book to indicate the start of the next lot.

CHIP DISPOSAL



Chip disposal system can be hooked to central disposal system or a scrap bin.

Specifications:

(Subject to change without notice)

SIGNATURE SIZE (UNTRIMMED)

Maximum — 12 1/2 x 20 3/4" (317 x 527 mm)
Minimum — 3 1/2 x 5 3/4" (89 x 146 mm) 3/16 to 3/4" (5 to 19 mm) constant lap for gripper opening

THICKNESS

Maximum — 1/2" (13 mm)

NUMBER OF STATIONS

4 stations with multiples of 2-station additions

SPEED (CYCLES PER HOUR)

Infinitely variable from 2,500 up to 10,000. 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. Double cycling is standard equipment.

SIGNATURE OPENERS

Grippers and/or vacuum on inside and outside drums.

AIR AND VACUUM SUPPLY

Vacuum pump for feeders and signature opening. Pump for air curtain signature control.

SADDLE CHAIN

Crowned chain with easily removable pushers.

STITCHER

Stitches up to 1/4" (6 mm) thickness through crown of book with 26D heads. Two heads furnished. Machine is equipped to run six heads.

DETECTOR

Pack inspector before stitcher detects both "over" and "under" books and single sheets. Automatic throwout of stitcher and rejection of incorrect books. Three consecutive incorrect books stop machine.

CUTTING REGISTER

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

KNIVES

Three cutting and three bed knives; cutting knives are guided by preloaded 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 stop fingers are adjusted by direct measurement.

MAXIMUM TRIM ALLOWANCE

2" (51 mm) on all 3 sides.

CHIP REMOVAL

Belt conveyor removes chips from under knives to box or vacuum system.

DELIVERY

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

POWER REQUIRED

6 H.P. drive motor
3 H.P. pump motor
1 1/2 H.P. air curtain motor

OPTIONAL EQUIPMENT

Hand feed station at take-up (546) and/or ahead of inspector (548) — two feeding positions per section
Extra stitching heads
Batch counter — Model 644
4th and 5th knife attachment — Model 645
Chip disposal system — Model 646
Extra set of knives — (613)
RS-10 Counter/Stacker
SignaPunch — Model 256
Folder/Feeder — Model 557