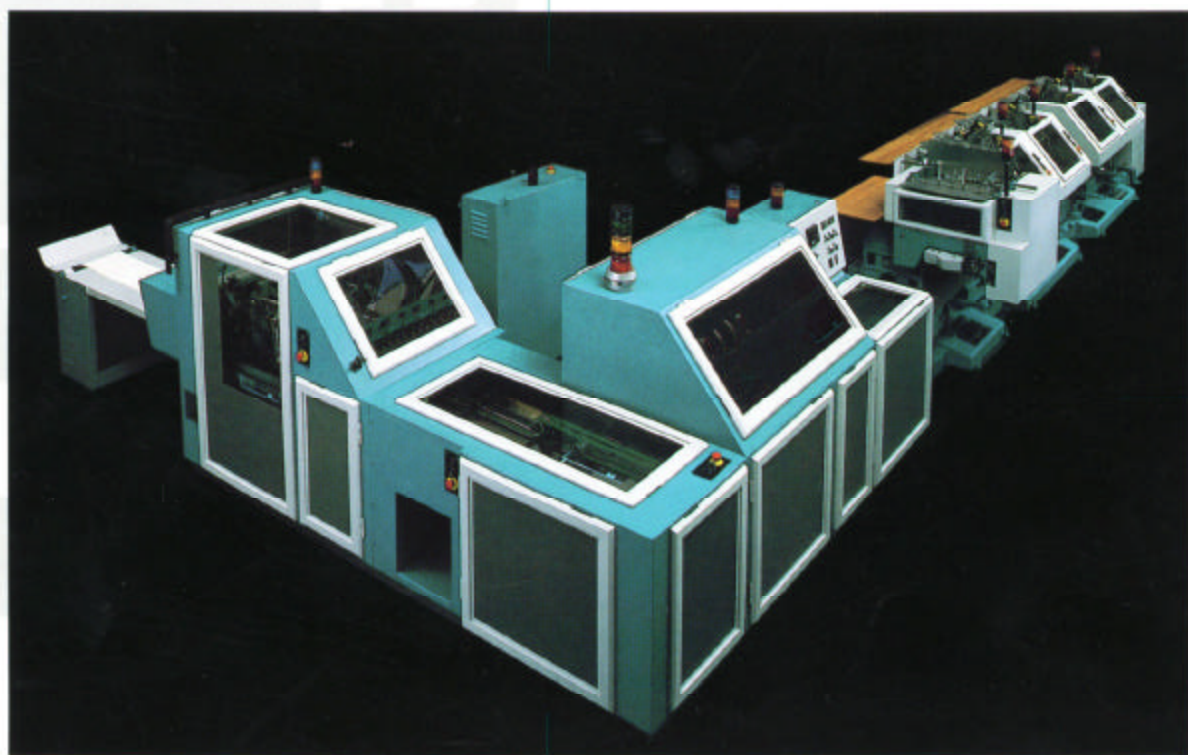


S 2100

Saddle Stitcher

Presenting a more productive
approach to bindery operations.



Introducing the stitching system that brings productivity and profitability up to speed.

Fast makeready...high production speeds...precise stitching accuracy...simplified operator controls...and the superior reliability that is a trademark of McCain equipment and systems. The S 2100 is the new benchmark for saddle stitching performance.

Designed for medium-to-large printers and trade binders, the incredibly versatile S 2100 accommodates a broad variety of folded signatures and paper stocks for periodicals, catalogs, brochures, and similar printed materials.

Look closely and you'll see that everything about the S 2100 is engineered for high productivity and minimum downtime. This includes incorporating special features to speed up makeready; minimizing the number of adjustments required to changeover from one job to the next; and positioning adjustment controls for easy operator access. Even the profile has been lowered to provide a more convenient — and productive — working height.

Through a full complement of automated controls designed to monitor both system operation and product quality at

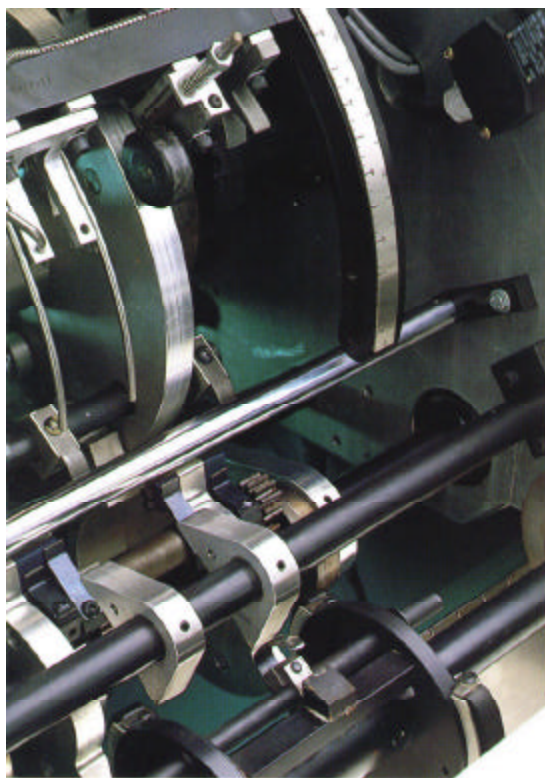
every station, the S 2100 is capable of running even the more challenging jobs at high production speeds. As for dependable performance day in and day out, reduced maintenance requirements, heavy duty construction, and extended service life, the name McCain speaks for itself.

Built-in features provide a completely new definition of "standard equipment".

- Electrically interlocked, hinged protective guards with see-through panels.
- Jam detectors and overload clutches at critical machine points.
- Gears, cams and sprockets are specially hardened for added strength and wear-resistance.



- Two stitcher strokes for improved control of signatures at high production speeds.
- Labor-saving automatic lubrication for both the stitcher and trimmer.
- Missing stitch detection.
- Counter separator table equipped with an integral batch counter.



These signature feeders were clearly engineered with the machine crew in mind.

■ Simple, one-knob feeder-size adjustments require no special wrenches.

■ High-capacity pocket infeed speeds production.

■ Ergonomically sound, low-silhouette profile increases productivity.

■ Large, height-adjustable

jogging tables promote faster, easier loading.

■ Exclusive "OTR Timing" permits operator to retime feeder to the gathering chain "on-the-run"—without interrupting production.

■ External adjustments are conveniently located for easy access.

■ Electrically interlocked, see-through guards permit safe, visual monitoring of feeder operation.

■ Fiber Optic miss and jam detectors signal problems the instant they occur.

Individual 1:1, neutral and 2:1 feeder drives further

enhance feeding flexibility. Unique clutch feed ensures smooth, precise feeding—even for light paper applications! Everything about this feeder is engineered for operator friendliness, including the clearly visible paper path. And patented lap-support fingers provide a new level of control and accuracy for the transfer of signatures to the opening cylinders.

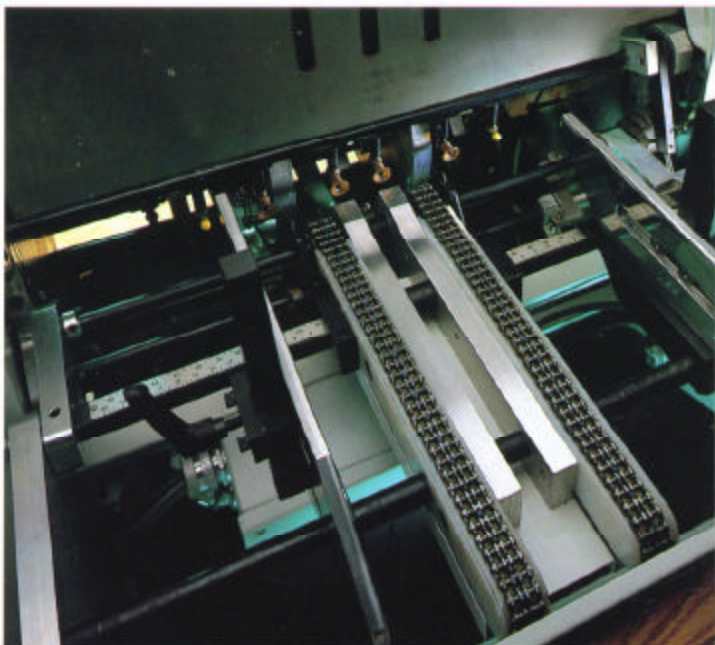
In production of this brochure, many of the guards have been removed for the purpose of photographic access. Be sure to replace all guards after removal. Never operate machine without all guards securely in place.

Reliable feeder performance: the key element to overall productivity.

Signature feeders... engineered to deliver unparalleled flexibility.

Standard interchangeable feeder units and a "quick-disconnect" between the feeder and drive make adding or changing feeders a remarkably easy task. Basic makeready typically involves a simple, two-step size-change. That's right, just two steps.

Signature opening may be accomplished by a choice of three methods: mechanical grippers, vacuum, or a combination of both grippers and vacuum. No special adjustments or additional parts are required to change from one mode to another in order to accommodate different signatures or stocks. From the modular station design to the plug-in air and electrical connections, S 2100 feeders are engineered to adapt quickly and easily to virtually any stitching application that comes your way.



PLC-controlled caliper ensures accuracy and prevents costly production delays at both the stitcher and trimmer.

The heavy duty caliper checks each book for extra or missing pages as it approaches the stitcher unit. Incomplete books are not stitched and are ejected prior to trimming.

To assure maximum accuracy, books are inspected on their sides where signatures are completely flat. The caliper may be set up to inspect a book at any point along its length, checking for downheads, the presence of cards, envelopes, or order forms. It is even capable of detecting an extra or missing four-page signature. Optional three-side out-of-jog detection can be programmed right into the caliper's logic controller.

Single-station control of all system functions speeds setup and offers maximum operator convenience.



■ Push-button controls with indicator lights for simplified operation.

■ Electronic clutch with external switch assures quick timing of caliper to gathering chain.

■ Digital speed display provides constant production monitoring.

■ Control console is an integral part of the caliper/stitcher—the handiest location for the operator.

Saddle Stite

After stitching, books make a smooth, straight transfer into stitcher delivery. The lower belts

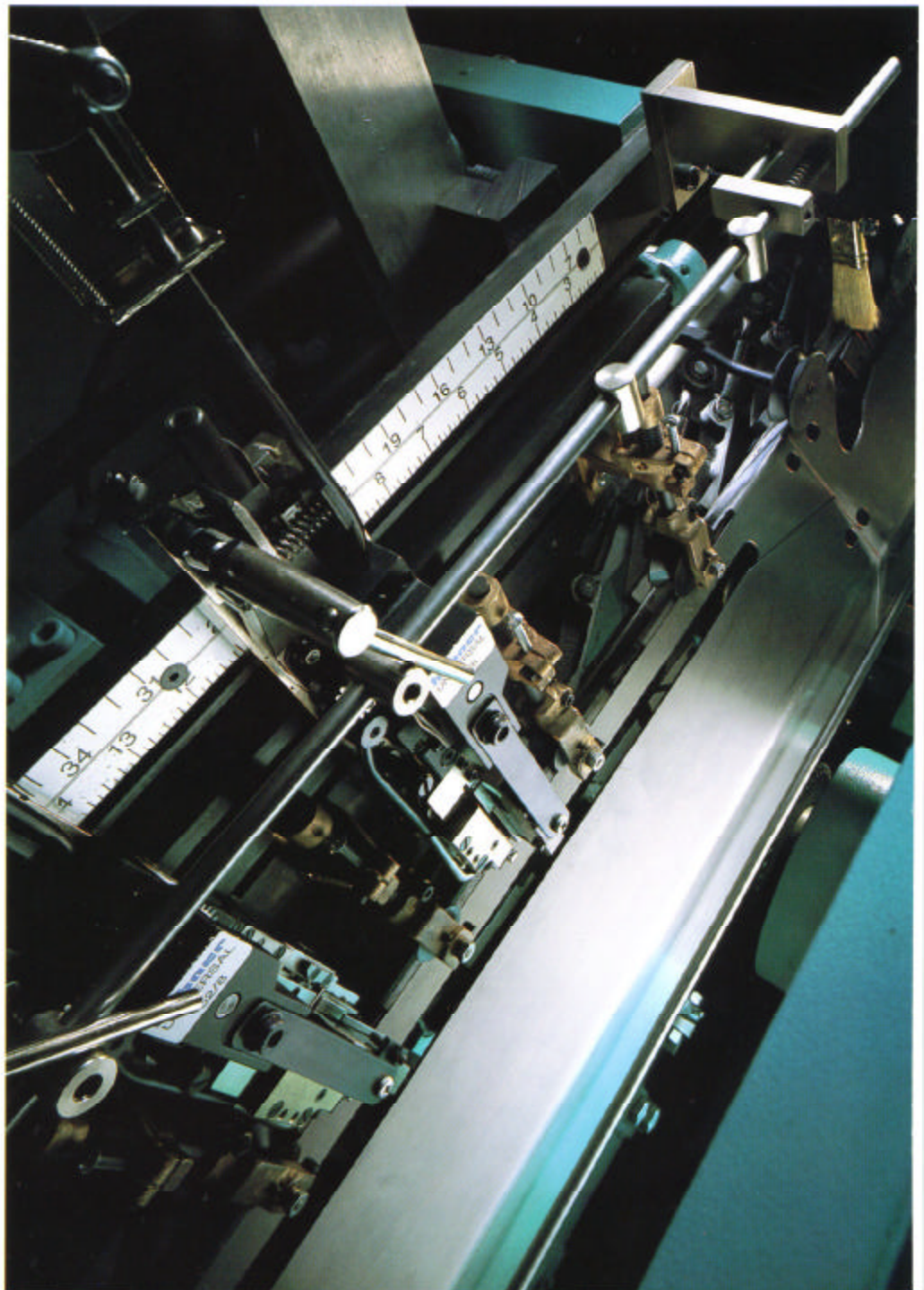
on the trimmer infeed table run slightly slower than chain lugs to ensure tight

Positive stitcher delivery assures smooth transfer and precise registration at the trimmer infeed.

pre-registration of each book before entering the trimmer station.

Heavy duty stitching unit is engineered for reduced wear, longer service life.

- Unique gripper bar transport system allows stitcher heads and clinchers to remain in a stationary position for highest stitch quality.
- Stitcher can be equipped with up to six Hohner heads at a time.
- Hohner missing stitch detector checks every book.
- A single control adjusts thickness and wire length simultaneously.
- Accommodates regular, loop stitch, or a combination of both heads.
- Automatic lubrication for easier maintenance.

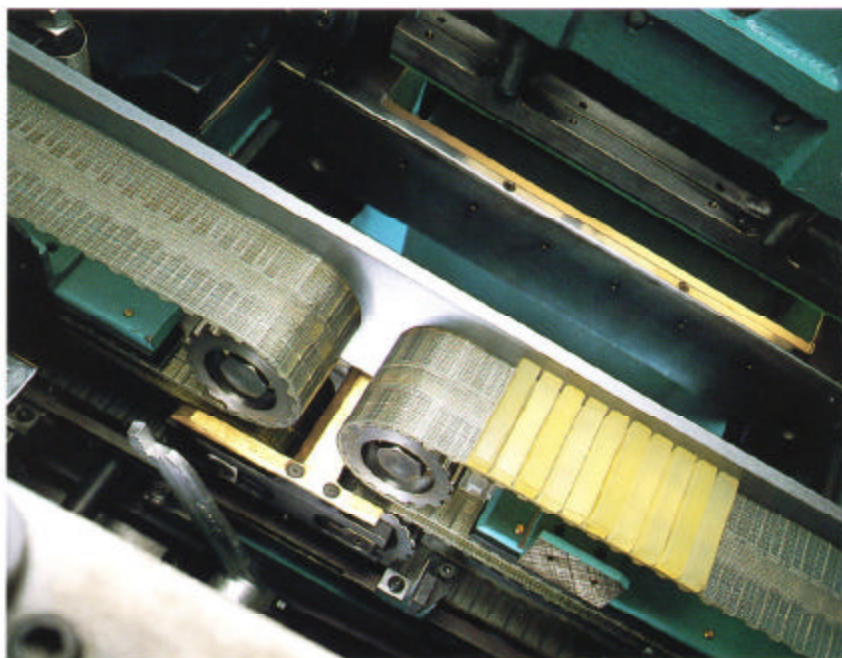


Three-knife trimmer is engineered for increased accuracy with reduced maintenance.



- New Timing Pad transfer system routes books gently through trimmer with virtually no marking.

- External knobs permit quick adjustment of front and head/foot cuts.



- Direct reading scales simplify size setting.

- Transfer system accommodates book sizes without adjustment.

- Single control knob adjusts book thickness.

- Book transfer system raises for easy access, cleaning, inspection, and repair.

- Trimmer performs front cut, then head/foot trim for accurate book squareness.

- Books are mechanically registered on all four sides in both trimming positions.

- Provides 2 1/4" x 6" minimum size with no special attachments.

- Belt drives reduce maintenance, wear and noise.

- Automatic lubrication for easier maintenance.

Create a custom saddlebinding system through a full range of optional equipment and accessories.



- Automatic signature loaders

For a complete list of optional equipment contact your local sales representative.

- Cover folder feeder

- Card folder feeder

- Center knife trimmer

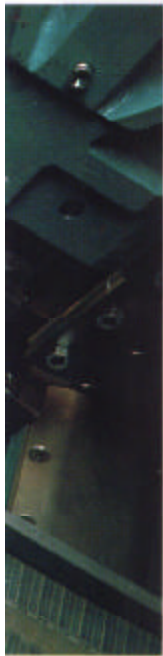
- Counter stacker

- Inkjet printing systems

- Three-side out-of-jog detector

- Trim monitor

- Mailing table



Maximum uptime...high productivity... the S 2100 is the industry benchmark for saddle stitching performance. Continuing McCain's tradition as a bindery technology leader, the S 2100 gives you the edge to increase your bindery's profits. This innovative machine is just another example of how McCain combines the most up-to-date engineering with practical, "real world" application experience to offer more productivity with greater reliability for a more profitable bottom line.

For the industry's broadest and most versatile line of saddle stitching equipment you need only remember one name... McCain.

Safety comes first... in each and every phase of machine operation

Safety is a primary concern in the design of every McCain machine, and the S 2100 is no exception. The S 2100 features special guarding at all potentially dangerous areas to ensure operator safety. In many cases, guards are electrically "interlocked" to prevent machine operation when guards are not securely in place.

Technical Specifications

	inches	mm
Minimum untrimmed	3 1/2 x 3 1/2	89 x 89
Minimum postcard	3 x 3 1/2	76 x 89
Maximum untrimmed	12 1/2 x 20	320 x 508
Minimum trimmed	2 1/8 x 6	75 x 148
Maximum trimmed	11 3/4 x 19	298 x 483
Maximum book thickness	1/2	13
Maximum trim-off; fore-edge	1 1/4	32
Maximum trim-off; head-foot	2 (each side)	51
Mechanical speed	14,000 cycles/hour	

Machine Layout

	feet	mm
Dimension A (2 feeders)	23' 10"	7,253
(4 feeders)	30' 6"	9,288
(6 feeders)	37' 2"	11,324
(8 feeders)	43' 10"	13,359
(10 feeders)	50' 6"	15,394
Dimension B	17' 2"	5,232

Diagram includes six signature feeders, inline cover folder feeder, caliper, stitcher, three-knife trimmer and optional counter stacker.

Power Requirements

Machine as shown in diagram

15 H.P. Drive	11.46 KW
5 H.P. Vacuum pump	3.73 KW
4 H.P. Blower	3.13 KW

Note: We reserve the right to change the design and technical specifications without prior notice.



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