

PERFECT BIND

- QUICK AND EASY SET-UP AND CHANGEOVER
- SINGLE OPERATOR DESIGN FOR GREATER PRODUCTIVITY
- ACCOMMODATES BOOK THICKNESSES FROM 2 SHEETS TO 1.9" WITHOUT ANY ADJUSTMENTS
- FEATURES A RELIABLE BOTTOM-FEED VACUUM COVER FEEDER
- Designed specifically for short to Medium-length runs

The small footprint, high speed, and precision engineering of the MR 500 Perfect Binder makes it the most productive and cost efficient perfect binder in its class. The single operator and single clamp design allow output of up to 600 books per hour. In addition, although designed for a single operator, the MR 500 can also accommodate multiple operators at one time to enhance productivity (i.e. one person operating the machine and another unloading and packaging books).

EXTENSIVE, USER FRIENDLY CONTROLS

The user friendly control panel simplifies operation and provides many useful features to augment production. A "stand-by" mode allows periodic interruptions in production without causing deterioration of the glue. Save time by using the "automatic timer" which programs the MR 500 to turn itself on at a preset time each day thereby preventing wasted production time waiting for the machine to warm-up. Other control panel modes regulate glue temperature, electronically keep a finished book count, and adjust nipping time length.

Clearly marked displays indicate if an error occurs during operation.



VERSATILE PERFORMANCE

Designed for both flat sheets and signatures, its unique pneumatic clamping carriage and cover nipping system ensures quick set-ups and easy changeovers for short to medium runs.

The MR 500 can be used in a wide range of operating modes to handle virtually all of your perfect binding and padding needs. The operator can choose among binding with milling and notching, without milling and notching, or with notching only.

SIMPLE, DEPENDABLE OPERATION

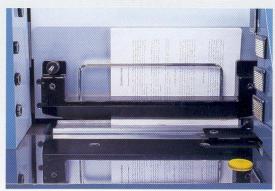
The operator begins the process by simply placing flat sheets or signatures into the vibrating jogger of the loading station (vibrating jogger is ideal for single sheet or high speed copier output because it requires less paper handling prior to loading). The pages are clamped and sent downstream over the milling/notching blade. The milling unit is adjustable up to a 3 millimeter cutting depth. The glue is expertly applied by a state-of-the-art thermostatically controlled adhesive application system that provides a strong, resilient bind.

IDEAL FOR PRINT ON DEMAND ENVIRONMENTS

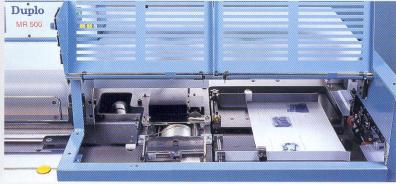
For added convenience, the book clamper can be set for either manual or automatic operation in order to achieve optimum efficiency on a particular job. Unique to the MR 500 is an automatic clamping and automatic nipping thickness adjustment that is ideal for the "on-demand" marketplace because it can accommodate book thicknesses from 2 sheets to 1.9" without any adjustments.



NG MADE EASY



LOADING STATION FEATURES VIBRATING JOGGER AND SINGLE PUSH BUTTON START FOR EFFICIENT OPERATION.



THE SOPHISTICATED GLUE APPLICATION SYSTEM APPLIES A CONSISTENT AMOUNT OF ADHESIVE TO THE SPINE.

EXCEPTIONAL COVER FEEDING

The automatic vacuum cover feeder and cover station provides superior operation. By using both the digital micrometer and ruled side guides, the cover station is set up quickly and precisely. The 1.63" bottom-feed

design allows the operator to load covers while the machine is running for greater productivity and no downtime. In addition, a double detector on the cover station provide accuracy in operation. The covers are applied by a pneumatic ram that guarantee proper cover positioning. Finally the pneumatically controlled nipper provides a perfectly square spine.



A RELIABLE VACUUM COVER FEEDER PROVIDES SUPERIOR FEEDING.

standard scoring wheels to enhance your finished product.

For added versatility, the MR 500 features

STACKING UP YOUR

A high pile stacker

features a generous capacity for finished books. Finished books may also be unloaded while the machine is operating.

SAFE AND DEPENDABLE OPERATION

The sturdy interlocking safety cover provides a shielded design for greater worker protection. Additionally, four photo-beams provide a safety guard at the loading station which stops the machine instantly in case of accidental contact with the machine's operation.

BUILT TO LAST

Solid construction and reliable pneumatics make the MR 500 built to last. The MR 500 turns a small amount of space into large profits.

STANDARD FEATURES

- · AUTOMATIC OR MANUAL CYCLE FOR EASE OF OPERATION
- AUTOMATIC BOTTOM-FEED COVER FEEDER WITH DOUBLE DETECTORS
- HIGH SPEED, HEAVY DUTY TUNGSTEN CARBIDE MILLING/NOTCHING (ROUGHENING) DEVICE ENSURES THAT THE GLUE WILL FULLY PERMEATE INTO THE SPINE FOR A STRONGER AND MORE RESILIENT BIND
- THE ADHESIVE TANK IS EQUIPPED WITH AN APPLICATION ROLLER, METERING ROLLER, AND SELF-SETTING SIDE GLUERS
- AUTOMATIC START OF THE GLUE CYLINDER WHEN GLUE REACHES PROPER TEMPERATURE
- . LEAD AND TRAIL EDGE GLUE CUT OFF
- . STANDARD IN-LINE SCORING DEVICE
- STANDARD VIBRATING JOGGER AT LOADING STATION TO REDUCE PAPER HANDLING PRIOR TO LOADING (IDEAL FOR CUT SHEET ELECTRONIC PRINTING APPLICATIONS)
- HIGH VOLUME PAPER DUST (CLIPPINGS) EXTRACTOR SIMPLIFIES WASTE REMOVAL AND MINIMIZES ADHESIVE TANK CONTAMINATION
- STANDARD FUME EXTRACTOR
- PROGRAMMABLE TIMER
- FINISHED BOOK COUNTER
- . NIPPING TIME LENGTH ADJUSTMENT
- DIGITAL MICROMETER IN THE NIPPER STATION THAT DISPLAYS COVER ADJUSTMENTS IN MILLIMETERS OR INCHES
- DEGREES DISPLAYED IN FAHRENHEIT OR CELSIUS
- PHOTO-BEAM SAFETY GUARD AT LOADING STATION
- EMERGENCY STOP AT OPERATOR STATION

OPTIONAL FEATURES

- FIVE FEET LONG
 PROGRAMMABLE OUTPUT
 CONVEYOR
- . HINGE SCORING DEVICE

Duplo

DUPLO USA CORPORATION

3050 S. DAIMLER STREET, SANTA ANA, CA 92705 (949) 752-8222 • (800) 255-1933 • FAX (949) 752-7766 http://www.duplousa.com

SPECIFICATIONS

NUMBER OF CLAMPS

MAXIMUM BOOK SIZE

8.75" x 15" SPINE

MINIMUM BOOK SIZE

5.5" x 6.75" SPINE

MAXIMUM COVER SIZE

15" x 19"

MINIMUM COVER SIZE

6.75" x 11.25"

BINDING THICKNESS

1.9"

CYCLE SPEED

1,200 CYCLES PER HOUR

PRODUCTION SPEED

UP TO 600 BOOKS PER HOUR

MILLING DEPTH WITH NOTCHING O-3 MM (VARIABLE)

SUCTION COVER FEEDER PILE HEIGHT 1.63" (BOTTOM-FEED)

COVER STOCK THICKNESS 20 LB. TO 12 PT.

GLUE WARM UP

40 MINUTES

GLUE WARM UP

LESS THAN 10 MINUTES

MACHINE WEIGHT

1,320 LBS.

POWER SOURCE

220V 3-PHASE 20A

MACHINE DIMENSIONS (LXWXH)

80" x 32" x 49"