

PANDA Perfect Binder



Designed, manufactured and serviced by MULLER MARTINI

- Space saving, in-line design with straight infeed
- Self-adjusting clamps for maximum book thickness without spacers
- Separate side gluer with applicator wheels
- Stationary top loading/bottom feeding cover feeder with built-in 2- and 4-line scoring
- Precise cover register — guaranteed to $\pm 1/32''$
- Makeready in minutes without tools
- Binder runs out books when gathering machine stops to reduce waste
- Heavy-duty construction for years of trouble-free operation
- Sound-absorbing protective covers with see-through windows
- Made in U.S.A.

The most productive Perfect Binder for small to medium size operations

MULLER MARTINI

DESCRIPTION

The MULLER MARTINI PANDA is a perfect binding line for work of excellent quality — a true production machine for short to medium runs, with many big binder capabilities. You will produce work you can be proud of — books, pocket books, magazines, catalogs, manuals, annual reports and directories.

The space-saving, 9-clamp, oval shaped binder fits into the most crowded bindery. In-line operation increases efficiency and reduces waste and space requirements. There is no need for stacking and refeeding of signatures between gathering machine and binder.

Simple, wrenchless size adjustments assure quick makeready to give you more productive time. You will need less time to change over to the next job,

and you gain the ability to process even short runs efficiently and profitably. Anyone can learn to run the PANDA and become an efficient operator in a short time. Ease of operation and fast changeover assure high productivity and a competitive advantage for short to medium runs.

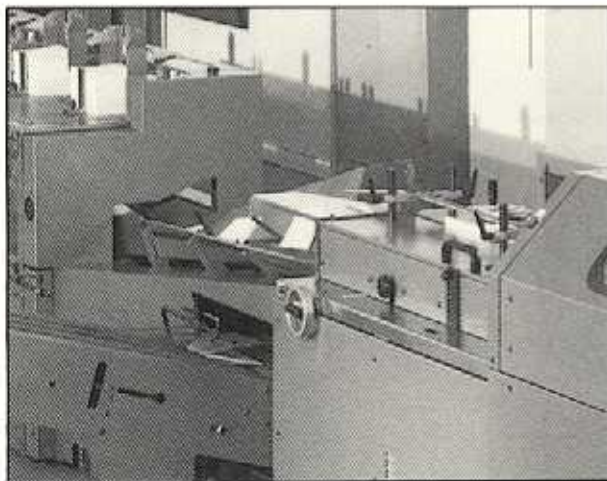
By investing in your own perfect binder, you can control quality and scheduling and offer faster service to your customers.

DRIVE

The heavy-duty drive includes an automatic run-out clutch. If the gatherer stops, the binder keeps on running until all books are delivered, then automatically switches to half speed. The gatherer starts up smoothly at half speed.

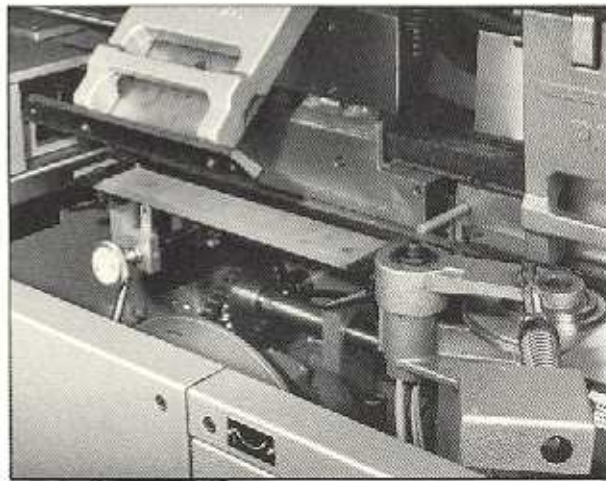
BINDER

Binder Infeed



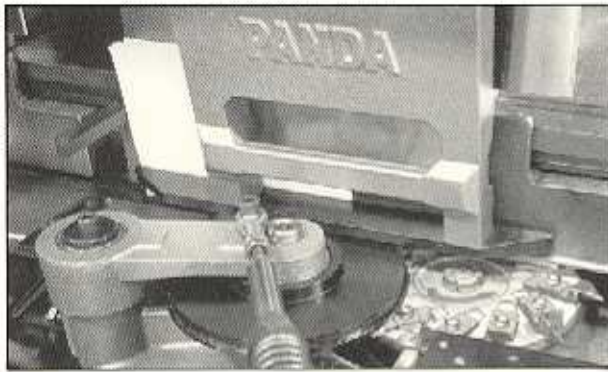
"Clam shell" design and positive infeed by finger chain allow a smooth, horizontal infeed of books into the binder. The infeed section is equipped with an externally adjustable jogger and can also be used for hand feeding of pre-gathered sections. The overload protected binder infeed includes an over-thick book detector. The levelling shelf of the binder is height adjustable and has a scale for setting the book hang-out.

Binder Clamps



Clamps are spur gear driven and interconnected to form a continuous link. Clamps are cam controlled and self-adjusting for any book thickness, eliminating the need for spacers. This feature, along with the pressing disc at the milling station, ensures constant pressure over the full length of each book to avoid cocking in the clamp. Books are held securely by heavy-duty clamps during the entire binding process.

Milling Station



The PANDA milling head is equipped with long-lasting, carbide tipped milling and roughening knives. Ten milling and two roughening knives are used. Milling knives can be resharpened and retipped, and each knife blade can be removed individually. Superior roughening of the book spine assures excellent glue penetration. Pressing discs at the milling station prevent flare to assure a neat, square backbone.

Hotmelt Station



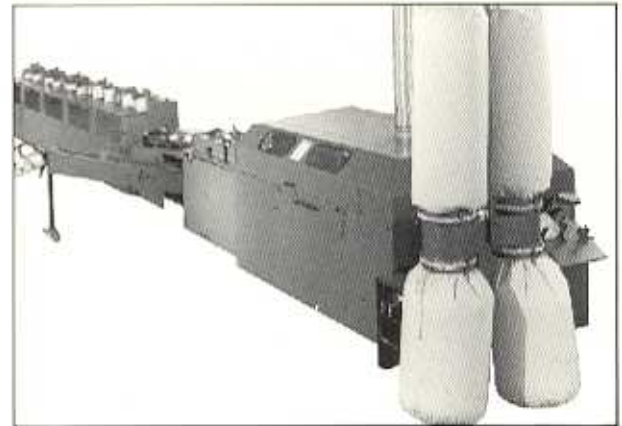
The thermostatically controlled glue pot contains two height adjustable glue rollers with cam controlled doctor blades and an independently adjustable, heated backspinner with scraper to handle a variety of paper stock. The backspinner runs in reverse direction and accurately meters glue film thickness. The glue pot is equipped with a fume exhaust for connection to be furnished by the purchaser. A timer assures that the hotmelt is preheated automatically to a preset temperature prior to production start-up. The glue pot is mounted on a trolley for easy removal for changing glue, cleaning or maintenance.

Height Adjustments

The height of the milling station and the glue rollers relative to the spine of the book are adjustable using handwheels with integral gauges.

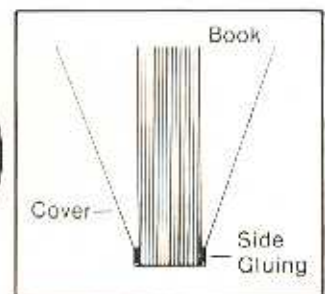


Exhaust System



The 4-bag waste exhaust system allows a clean, efficient environment and continuous operation.

Hotmelt Side Gluer



Side gluing by gear-driven applicator wheels (rather than edge gluing by wire) produces books of superior quality and durability, with beautiful hinges. It enhances the binding quality of annual reports, art books and other fine publications. The side gluer applies a thin line of adhesive to the front and back of the book along the spine, so 4-line scored, hinged covers can be affixed. This method also allows covers of thin adhesive bound books to be attached securely. Covers up notching and unsightly backbone glue in the gutter. The side glue pot can be lowered if no side gluing is required. Settings are easy with repeatable-adjustment feature.

Premelter

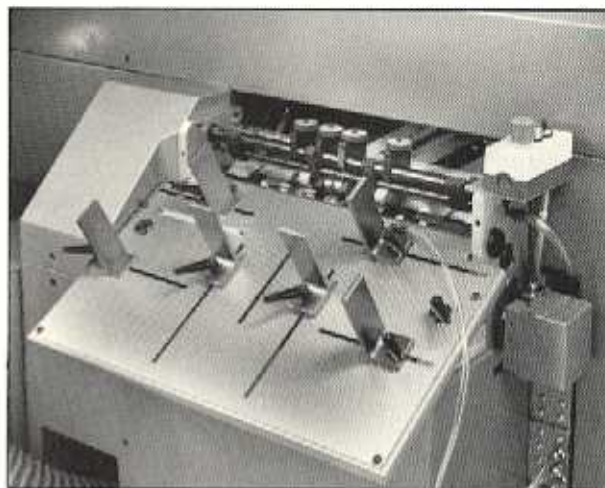
The premelter is standard and has its own thermostat. Control of the glue temperature in different sections of the premelter eliminates burning, charring and degradation of the adhesive while keeping it ready to be dispensed at all times.



An electric glue pump feeds hotmelt at the press of a button. Refilling of hotmelt is at a convenient height and can be done while the binder is running.

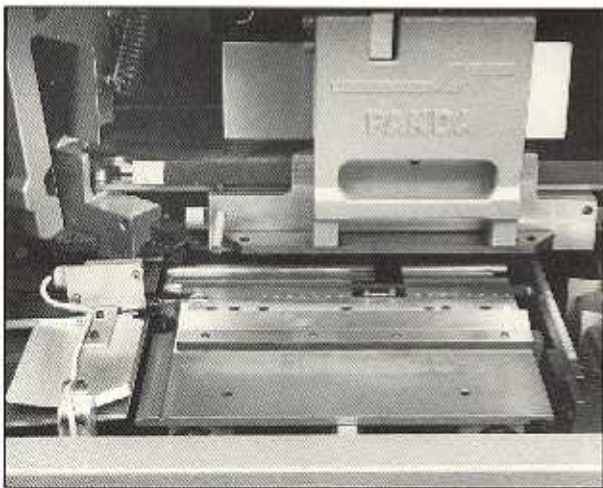
An optional premelter for the side gluer eliminates the need to stop the PANDA to refill the side glue pot. The premelter has a Teflon-lined melt tank to reduce char and minimize adhesive degradation.

Cover Feeder



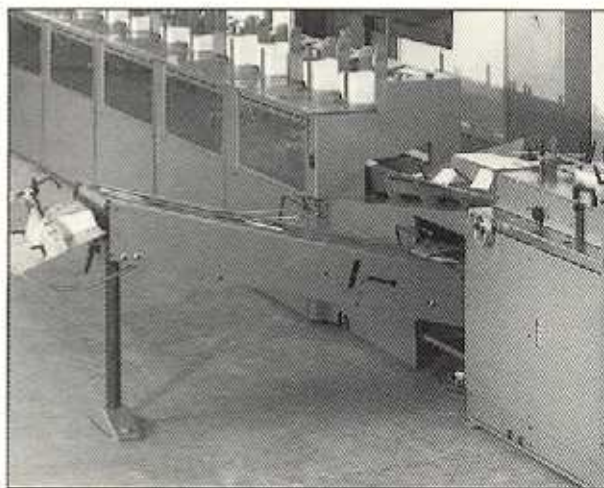
The top loading/bottom feeding pile cover feeder is stationary and allows continuous, non-stop operation. The misfeed control and precise 2- or 4-line scoring are built-in features. Scoring depth is adjustable on the fly without tools to select the ideal setting for various types of cover stock.

Nipping Station



Each cover is accurately aligned and cover register guaranteed to $\pm 1/32$ ". If there is no book in the clamp, a cover will not be fed. The heavy-duty cover nipper produces a tight, square backbone. Nipping station makeready is fast and convenient.

Binder Delivery



Books are delivered on their spines through a downhill delivery channel, rather than dropped into a delivery tray, to assure gentle processing and square backbones. Products are conveyed to a standard belt delivery with stacking tray or directly to an in-line 3-knife trimmer. A stacker can be added, which allows one person to keep pace with the binder output.

GATHERING MACHINE

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The MULLER MARTINI top-loading Model 1531 Gathering Machine handles a wide variety of sections, single sheets and fold-outs. In-line gathering increases output, reduces handling and requires less space than separate off-line operations. Modular design permits easy expansion in 2-pocket elements. Low-silhouette design allows easy, waist-high loading for less operator fatigue. Each 2-feeder element has a stop button and electrically interlocked plexiglass cover. Feeder adjustments are simple and wrenchless.

Caliper Control

Each feeder is equipped with a misfeed and double-sheet detector. A light on each element, in conjunction with a flag at each feeder pocket, makes it easy to pinpoint the location of a feeding fault. The misfeed detector can be inhibited on feeders not in use. The double-sheet detector is easy to adjust using a handwheel.

Gripper Feeding

Sections are separated from the bottom of the pile by suction and pulled around the drum by grippers. Positive pick-up by grippers rather than friction feeding assures consistent operation, even with light sections and single sheets.

Air/Vacuum System

Compressors for the gathering machine and cover feeder of the binder are furnished. Each dual element is equipped with its own vacuum and air control valves.

Prepiling Shelves

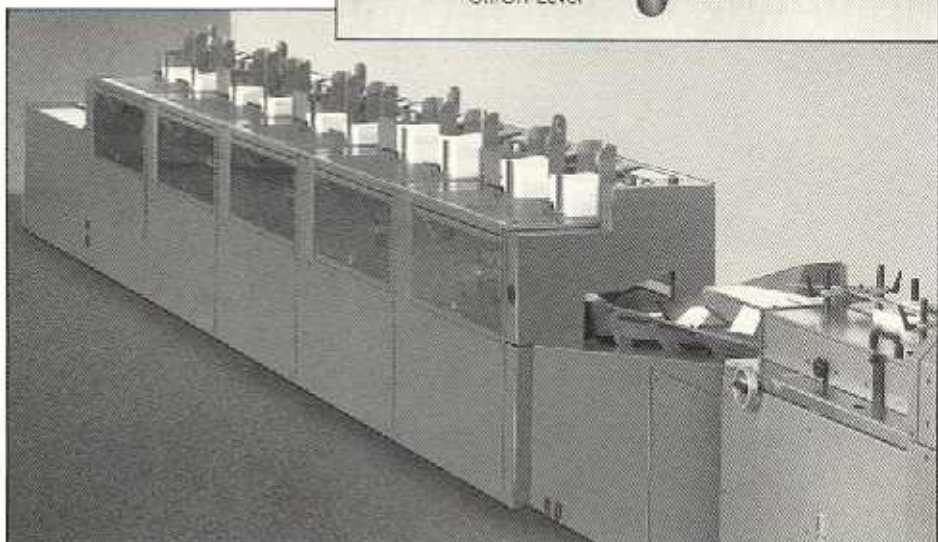
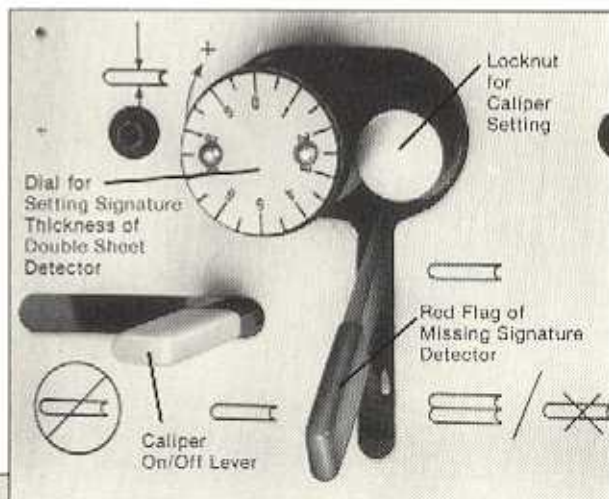
The prepiling shelves permit feeding from either side. This feature allows work to be fed from one side while the next job is staged on the other side.

Hand Feeding Station

The gathering machine is equipped with a 5-foot long hand feeding station, which provides convenient access for manual feeding of pre-gathered sections.

Separate Gathering

The gathering machine can be run separately for pre-gathering or for books to be gathered for sewing or ring-binding. Pre-gathered sections can be taken off the spiral raceway manually.



OPERATING CONVENIENCE



Wrenchless makeready on scales and see-through windows with fluorescent lights provide convenient operation and supervision. Lubrication points are centralized for easy maintenance. Electrically interlocked protective covers provide access to the milling and hotmelt stations.

OPTIONAL

Stacker Delivery

The PANDA Binder can be ordered with the UNO Counter Stacker, which operates at full binding line speed to untie bottlenecks at the binder delivery. Products coming off the binding line are stacked neatly for packing or subsequent off-line trimming.



U.S. Headquarters of Muller Martini



Manufacturing plant in Newport News, VA, where the PANDA is made.

MULLER MARTINI

Muller Martini Corp.

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Phone: (516) 582-4343 FAX: (516) 582-5736

Mailing Address:

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Smithtown, NY 11787-0811

PANDA Perfect Binder

Model 1530

SPECIFICATIONS

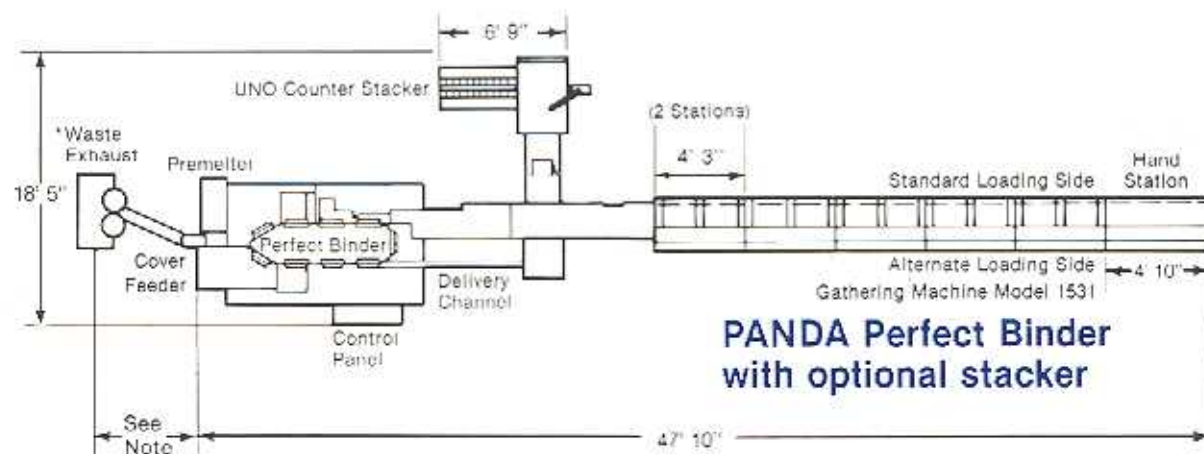
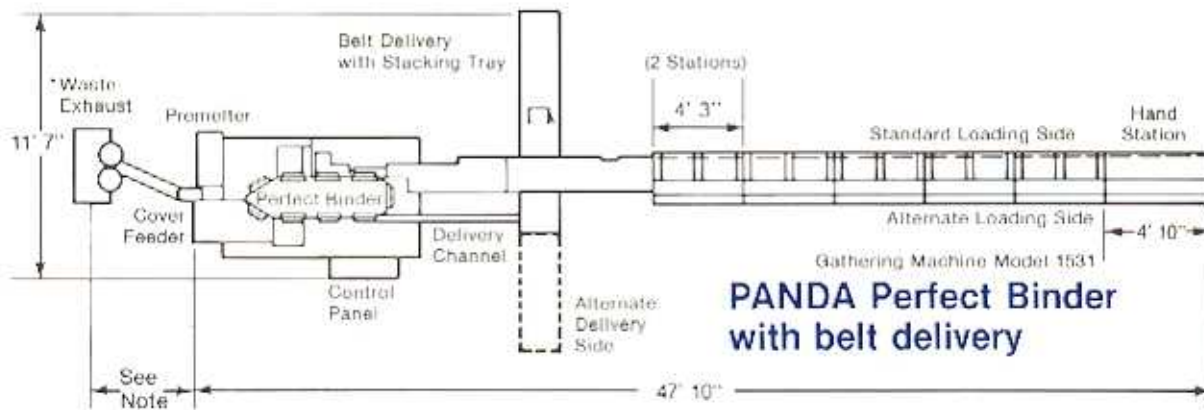
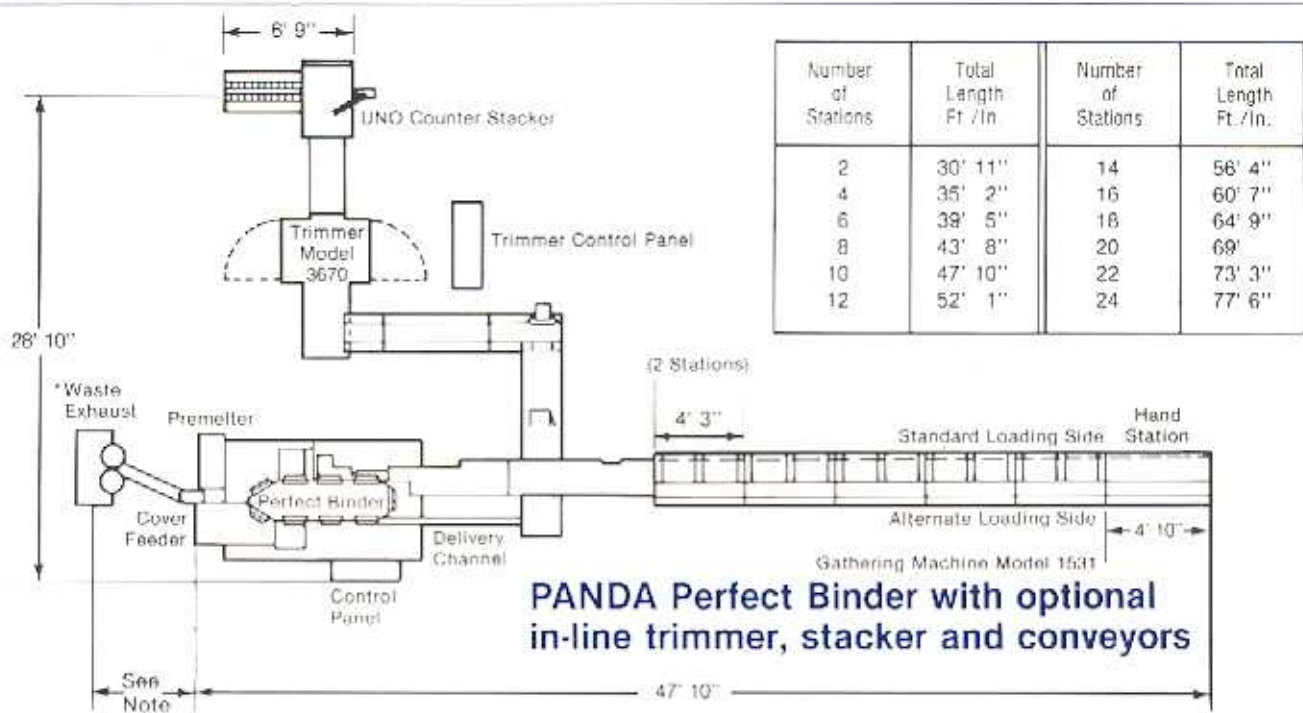
Mechanical speed	1,000 to 3,600 cycles per hour
Drive	3.1 HP AC motor
Milling motor	4.2 HP
Power consumption — Motors	.58 amps
(Multiple supply lines required) Heat	.25 amps
Vacuum pump	.35 amps
Electrical requirements	230V, 3-phase, 60 cycles
House air required	72 cfm (free air); 80 psi
(Compressor required if no house air available)	for a maximum number of 24 stations
Shipping weight (12-station machine)	12,500 lbs.
each additional two stations	700 lbs.
Maximum number of stations	24 (in 2-station elements)

Sizes	Min.	Max.
Spine length	4-3/4"	14-1/2"
Book width	4-1/2"	10-5/8"
Book thickness	1/8"	1-1/2"
Cover, open — spine	4-3/4"	15"
width	9-1/2"	22-3/4"

Design, specifications and measurements subject to change.

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*NOTE: The waste exhaust bags can be located in any position within the limits of a 12-foot hose connected near the cover feeder.

Printed in U.S.A.
B-1530 (R/A)

Hand-fed PANDA Perfect Binder

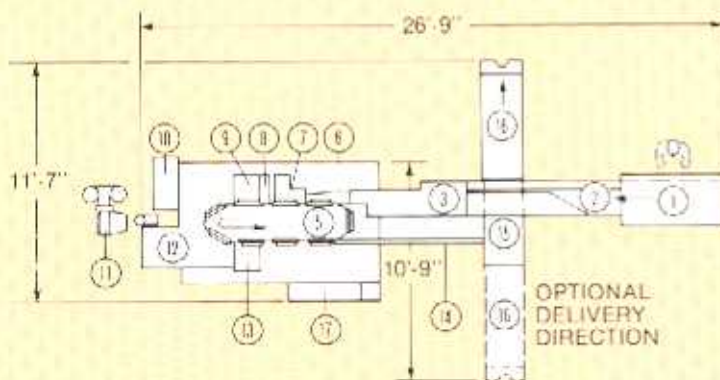
The hand-fed PANDA Perfect Binder allows you to get into adhesive binding with a minimum investment. Two versions are available for hand-feeding: one features a hand feeding station with spiral raceway, allowing two people to feed pre-gathered sets of signatures simultaneously, for maximum output; the other is the most economical and space-saving solution, with a short hand

feeding station at the binder infeed for one person to feed products. Books are advanced by the infeed chain and aligned by an automatic jogger before they enter the binder clamp.

The PANDA can be upgraded to an in-line machine at any time with the addition of the Model 1531 Gathering Machine.

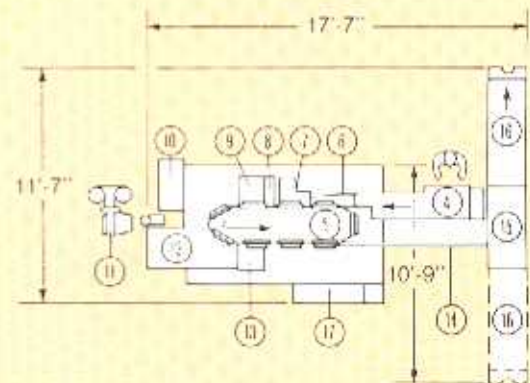
Version A

PANDA with hand-feeding station at spiral raceway



Version B

PANDA with hand-feeding station at binder infeed



SHIPPING WEIGHT:

Version A 8,600 lbs.
Version B 8,100 lbs.

- | | |
|---|---------------------------------|
| 1. Horizontal Handfeeding Station | 9. Hotmelt Station |
| 2. Spiral Raceway | 10. Premelter |
| 3. Binder Infeed with Jogger | 11. Four-bag Waste Exhaust |
| 4. Vertical Handfeeding Station with Jogger | 12. Pile Cover Feeder |
| 5. Panda Binder, Model 1530 | 13. Cover Pressing Station |
| 6. Leveling Shelf | 14. Delivery Channel |
| 7. Milling Station | 15. Conveyor/Laydown |
| 8. Separate Hotmelt Side Gluer | 16. Delivery with Stacking Tray |
| | 17. Control Panel |

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