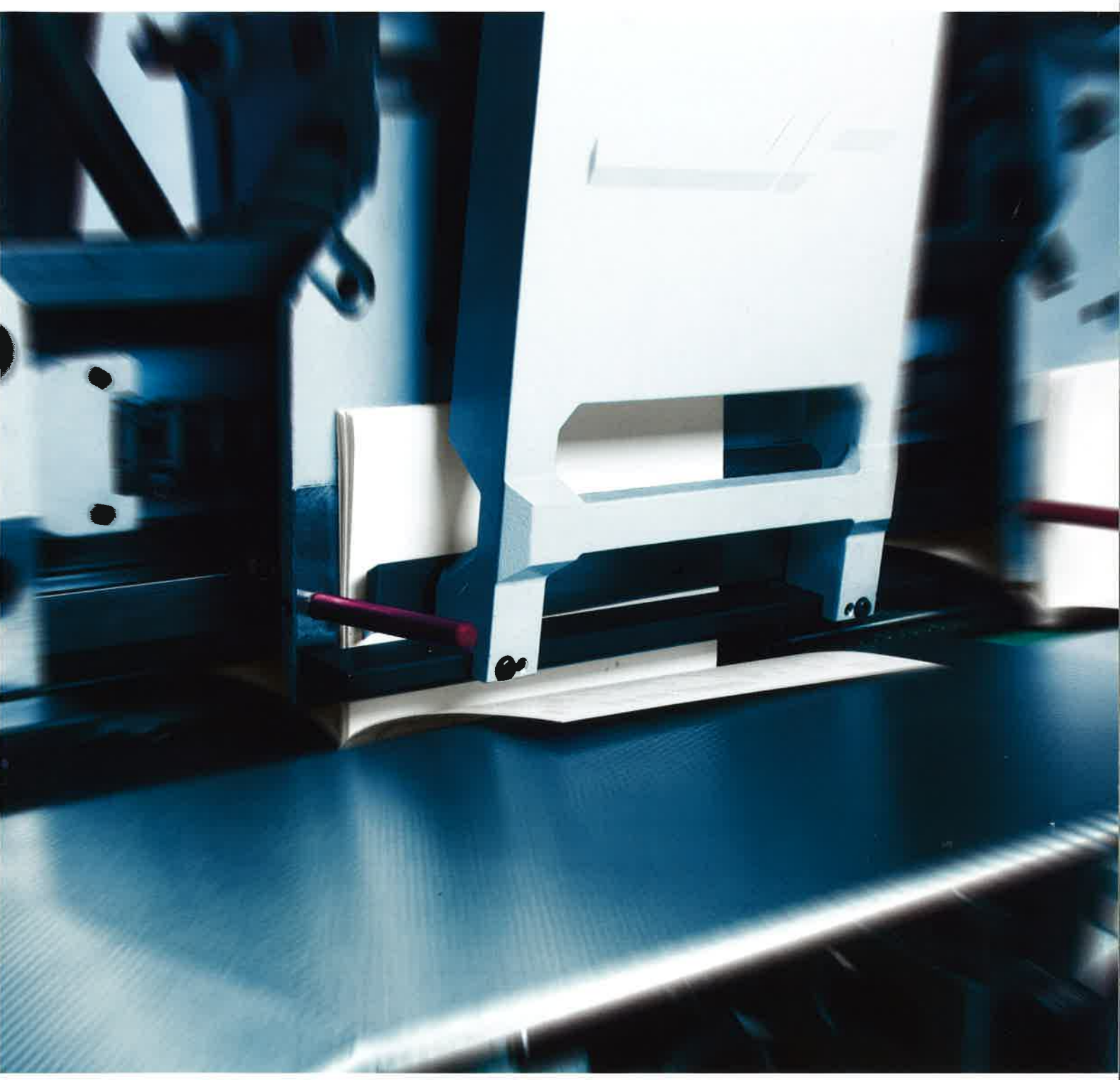
Pantera Adhesive Binder

A Compact Adhesive Binder with Big Possibilities



MÜLLER MARTINI

Pantera Adhesive Binder
Wide Range of Sizes and Flexible Binding Options

With its compact design, the Pantera adhesive binder not only provides great flexibility in tight spaces... it now handles PUR binding, in addition to conventional hotmelt, for the lower performance range. Pantera covers an extensive range of sizes to accommodate the widest variety of jobs. Perfect binders and gathering lines can be set-up separately for different jobs due to separate servo-driven shafts. The Pantera is easy to operate with a comprehensive touchscreen. If the adhesive binder is equipped with AMRYS (the Automatic Make-Ready System), setup and changeover times can be reduced even further.

Advantages of the Pantera adhesive binder:

- Wide range of sizes
- Variety of gluing and binding processes
- Short make-ready and changeover times
- Simple and comprehensive operation
- Interactive setup assistant companion
- Flexibly expandable
- Optionally with AMRYS

COSMETIC AND OTC DRUG LABELING AND ADVERTISING
ASCO

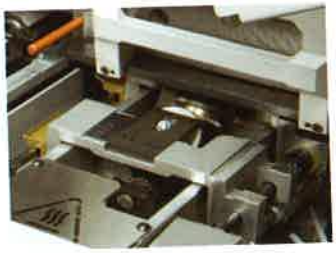
Pantera Adhesive Binder
Efficient Adhesive Binding in the Lower Performance Range

1 Control with setup assistant companion
2 Gathering line
3 Reject gate
4 Infeed
5 Clamps

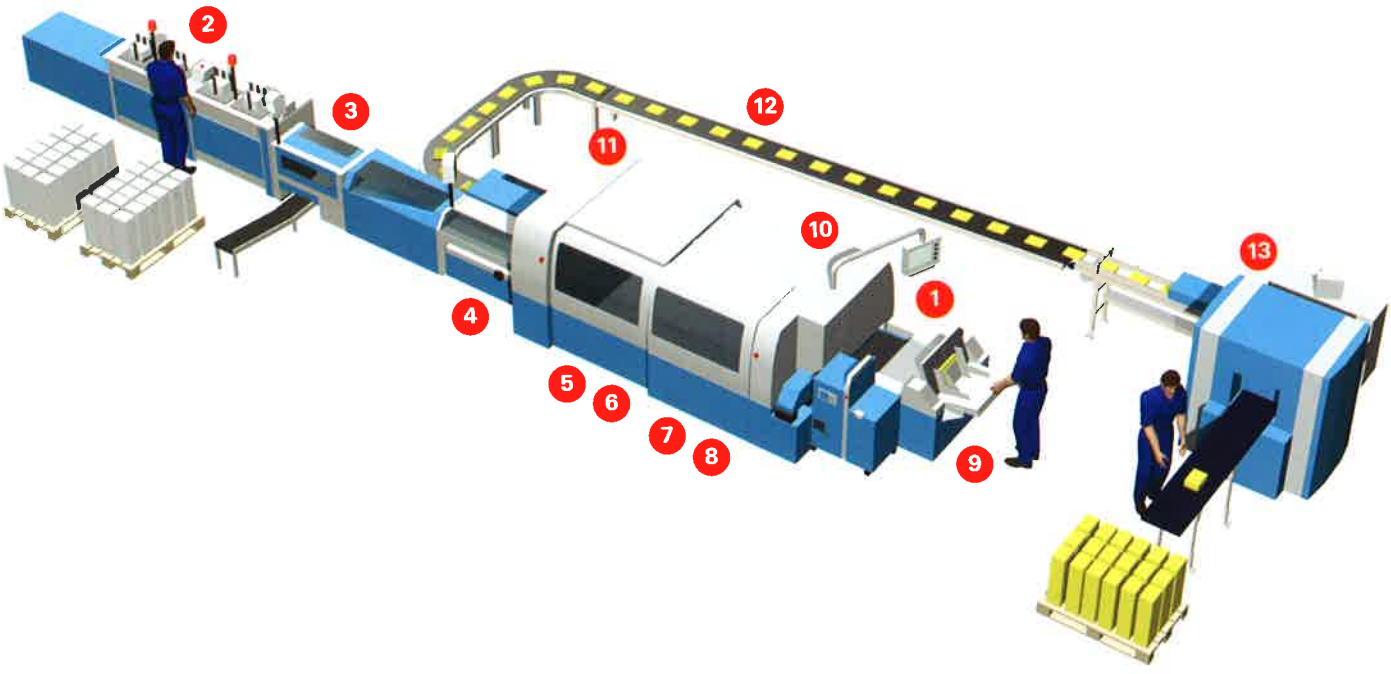
Control

Spine Preparation

Spine Gluing Station



Side Gluing Station



Drum Cover Feeder (Option)

Cover Nipping

Product Lay Down

Delivery

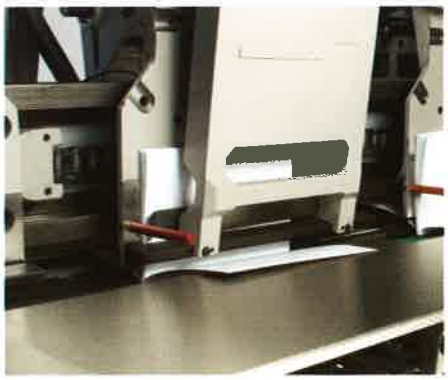
Spine Preparation 6 | Glue Stations 7 | Crash Station 8 | Cover Feeder 9

1 Control
The Pantera is easy to operate, using a touchscreen. The menus are clear and comprehensive. The interactive setup assistant companion supports the operator, also in the case of manually adjusted machines without Amrys. Settings for all stations are displayed on the screen for the current production.

The setup assistant companion supports the following tasks:
- Saving and loading of repeat jobs
- Display of production data and settings
- Monitoring the glue pot and backspinner temperature
- Automatic glue length control for spine and side gluing

2 1571 Gathering Line
The efficient and reliable gathering machine features easy operation and quick, tool-less setup. The hoppers can be loaded from both sides. The line is equipped with Asac (Automatic signature thickness measurement) and optionally with Asir (Automatic Signature Recognition).

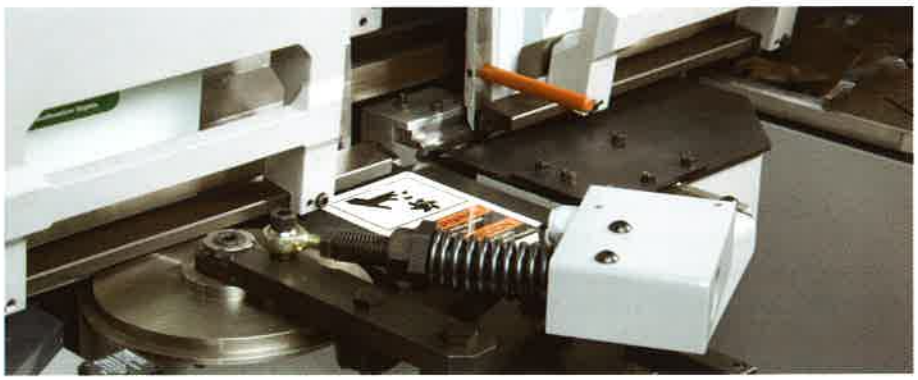
Cover Nipping 10 | Hold-Down Equipment 11 | Delivery 12 | Trimming 13



3 Reject Gate
The gate ejects all faulty and incomplete books automatically, without interrupting production. This significantly increases the productivity of the adhesive binder.

4 Infeed
The infeed on the Pantera is equipped with a manual infeed, enabling the simple feeding of pre-gathered or thread-sewn book blocks. The horizontal infeed in the binder is equipped with a jogger table which jogs the signatures to the spine.

5 Clamps
The clamps adjust automatically to each book block thickness between 2 and 50 mm, the clamps also create the same pressure with any thickness of the book block. Thanks to the quick-opening mechanism, book blocks are easy to remove.

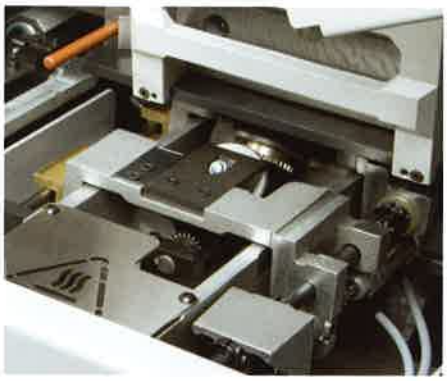


6a Milling Station
The book block is reliably processed in the milling station with a dust miller. The station can also be equipped with the "AngleNotch" tool which increases pull resistance values considerably especially for coated paper and difficult products through the hooking effect. The milling station can be lowered quickly for processing thread-sewn products.

6b Spine Preparation
In the flexible spine preparation station, the leveling saw, notching knife and fiber rougher can be used according to the glue (PUR or hotmelt). Dust is removed from the book spine with a brush which ensures improved page adhesion.

Control with setup assistant companion | Gathering line | Reject gate | Infeed | Clamps

7a Spine Gluing Station
The spine gluing station is equipped with two application rollers and a counter-rotating backspinner. The backspinner provides uniform glue application, and consequently, provides good page adhesion in the book.
Glue application length and spot-gluing can be adjusted via the interactive setup assistant companion.



7b Side Gluing Station
The length of the glue application can be precisely adjusted to the cover size with the control companion. This feature prevents glue contamination of the binder.

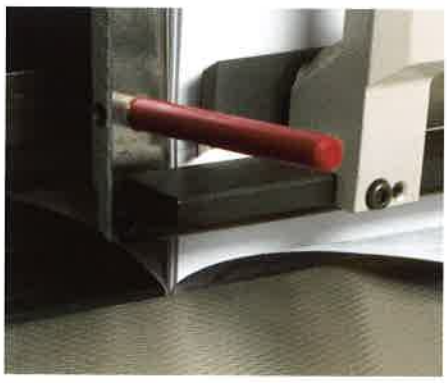
7c Premelting Device
A free-standing premelter can be used as an option. With level control in the glue pot, the premelter ensures that there is always sufficient glue, preventing production interruptions. Premelter devices are available for both hotmelt and PUR.

7a Spine Gluing, PUR Option Glue Pot
Capacity volume is optimized for processing PUR. High binding quality is ensured thanks to the monitoring of glue temperature and glue level. The system can be easily cleaned and operated.
The open glue application system is simple to manage. For cleaning, the PUR glue pot can simply be removed from the trolley. Moveable glue trolleys make quick glue changes simple during production changeovers.

8 Crash Station (Option)
The crash station can be adjusted via the setup assistant companion. If no book is in the clamp, crash is inhibited automatically.

9a Drum Cover Feeder (Option)
The drum cover feeder has a large cover capacity. Thanks to individually adjustable suckers, all cover types (even those with flaps) can be optimally processed. The covers are separated and fed securely using side blow air and separating aids. A low level monitoring device and a refill warning are available.

9b Flat-Pile Cover Feeder
The space-saving flat-pile cover feeder is loaded from the top. The secure feeding of covers is controlled via photocells. If no book is in the clamp, no cover is fed. The cover can be scored twice or four times, and scoring width and depth can be fine-tuned during production. Residual pile monitoring is provided. The cover feeder can be changed over quickly, without tools.



10 Cover Nipping
Precisely concurrent cover nipping provides for impeccably pressed, sharp-edged book spines. The covers are positioned, with high accuracy, to the book spine. The pressing plates are Teflon coated and can be cleaned very easily if contaminated with glue. The plates are simple and quick to remove, thanks to their quick locking system.

11 Product Lay Down
Products are carefully delivered in the lay down area. The system can be configured for left or right delivery and is designed for all glue types.

12 Delivery
The delivery removes the products carefully from the binder. Utilizing a custom-tailored transport belt system, the bound books are led into the three-knife trimmer, as well as into the book stacker, and, to further addressing and packaging processes. Removal occurs streamed or individually, and can be coupled with the binder speed.

13 Esprit Three-Knife Trimmer
The Esprit is the ideal three-knife trimmer for use with the Pantera. Esprit features high trimming quality and processes a wide range of products. Esprit can be quickly set up and changed over thanks to motorized adjustments.

Printing Presses
Automated web printing presses with inline finishing and a wide array of sizes provide consistent print quality. Orders placed once can be easily reproduced and therefore more quickly processed.

Press Delivery Systems
Efficient and reliable solutions are demanded by press delivery systems: Transporting printed signatures, rotary trimming, log or bundle formation, palletizing, forming rolls. The ideal link between press and print finishing.

Saddle Stitching Systems
A complete range of saddle stitchers, inserting, film-wrapping and packaging systems – in a wide array of performance classes – automate print finishing. Modern systems manufacture products in first-class quality with great added value.

Softcover Production
Adhesive binding lines in all performance classes produce a wide range of spine-glued products such as brochures, magazines, catalogs and paperback books... in perfect quality at the highest speeds.

Hardcover Production
Hardcover machines, whether connected inline or as individual units, master all the processing steps needed to create finished books from folded signatures with hard covers and protective jackets.

Newspaper Mailroom Systems
Powerful and flexible mailroom systems transport and process freshly printed newspapers fully automatically, from the press through the inserting process, bundling and up to the loading ramp.

Books-on-Demand
With the first industrial total solution for Book on Demand (BoD), printed products are produced in a single pass... from pre-press data through digital printing to the finished, adhesive-bound or saddle stitched product.

This brochure may show components that are not part of the standard equipment and are available as options only. In some cases, protective covers in photographs have been removed or opened for illustrative purposes. Design and equipment configuration are subject to change.

Sales and Service

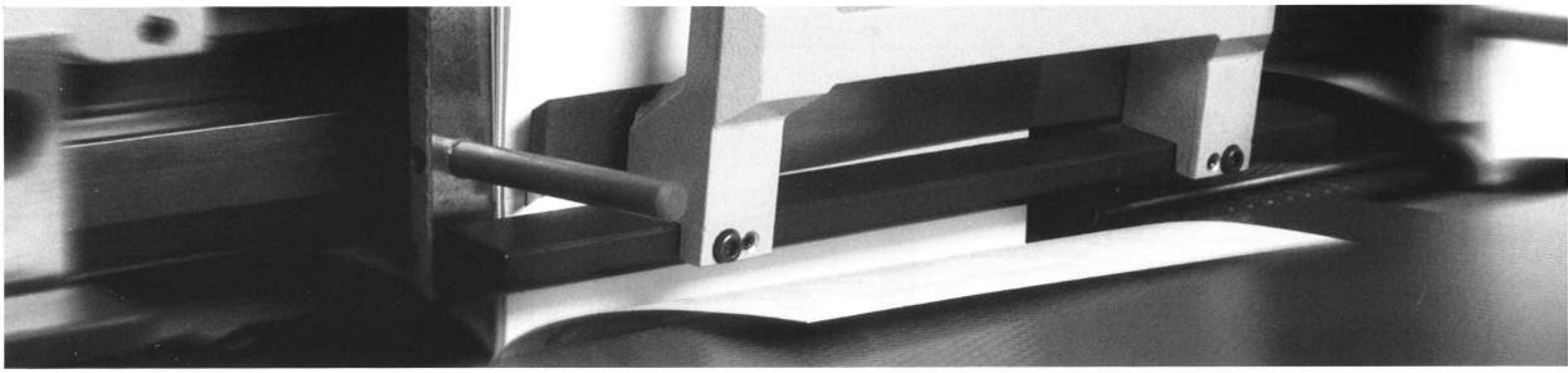
Müller Martini Marketing AG
Untere Brühlstrasse 13
CH-4800 Zofingen, Switzerland
Phone +41 (0)62 745 45 75
Fax +41 (0)62 751 55 50
info@mullermartini.com
www.mullermartini.com

Printed in Switzerland/Pantera/0106/B1/0069.1092.71

MÜLLER MARTINI

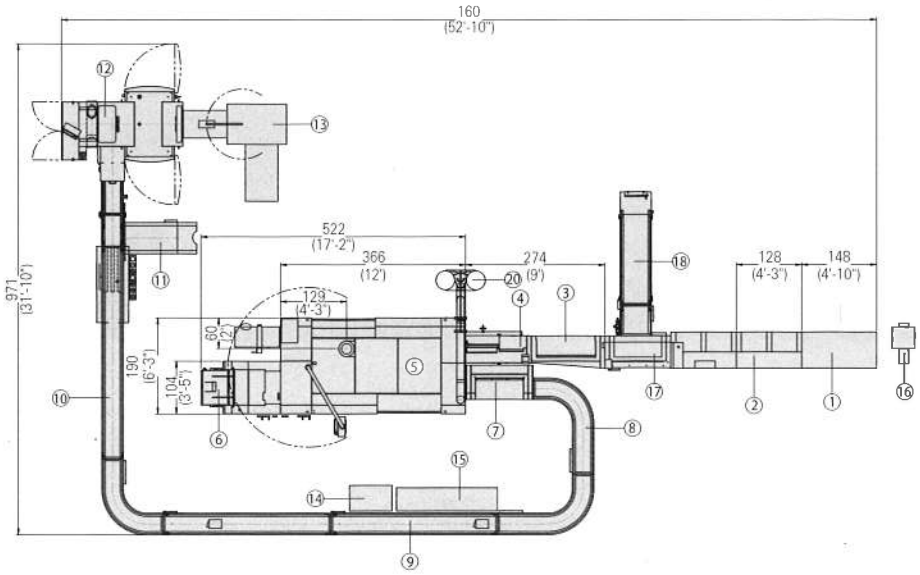
Pantera Adhesive Binder

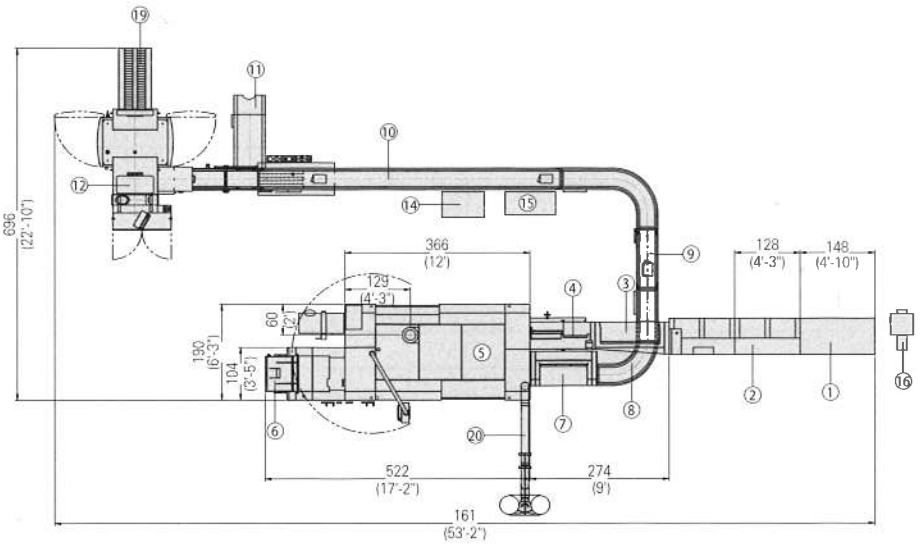
Technical Data



Sizes, Untrimmed	A	Maximum	380 mm	(15 '')
		Minimum	120 mm	(4 11/16'')
	B	Maximum	320 mm	(12 5/8'')
		Minimum	100 mm	(3 7/8'')
	C	Maximum	50 mm	(2 '')
		Minimum	2 mm	(1/16'')
Cover Open	Spine lengths	Maximum	390 mm	(15 7/16'')
		Minimum	120 mm	(4 11/16'')
	Book width	Maximum	640 mm	(25 1/4'')
		Minimum	202 mm	(7 7/8'')
Infeed channel capacity			70 mm	(2 13/16'')
Power consumption		Basic equipment	18.25 kW	
		Premelter 25 L	13.25 kW	
		Premelter 4 L	3.36 kW	
Air consumption	Compressed Air	Hotmelt/PUR	10 Nm³/h at 6.0 bar	
Number of feeder stations		Maximum	28	
Number of clamps			12	

Dimension, design and configuration changes reserved.





1 Tensioning unit/manual station
2 Gathering machine
3 Spiral race
4 Infeed channel with vibrator
5 Pantera adhesive binder
6 Drum cover feeder
7 Lay down device
8 Power turn
9 Linear belt
10 Linear belt with emergency reject gate
11 Delivery belt
12 Three-knife trimmer
13 Book stacker
14 Control cabinet to Pantera
15 Control cabinet to conveyor transfer
16 Vacuum pump
17 Reject gate
18 Inclined belt with catch tray
19 Roller table
20 Waste removal

Muller Martini Marketing AG
Untere Brühlstrasse 13
CH-4800 Zofingen, Switzerland
Telephone +41 (0)62 745 45 75
Fax +41 (0)62 751 55 50
info@mullermartini.com
www.mullermartini.com

MÜLLER MARTINI

Printed in Switzerland/TD/Pantera/0106/B1/0069.1093.71