

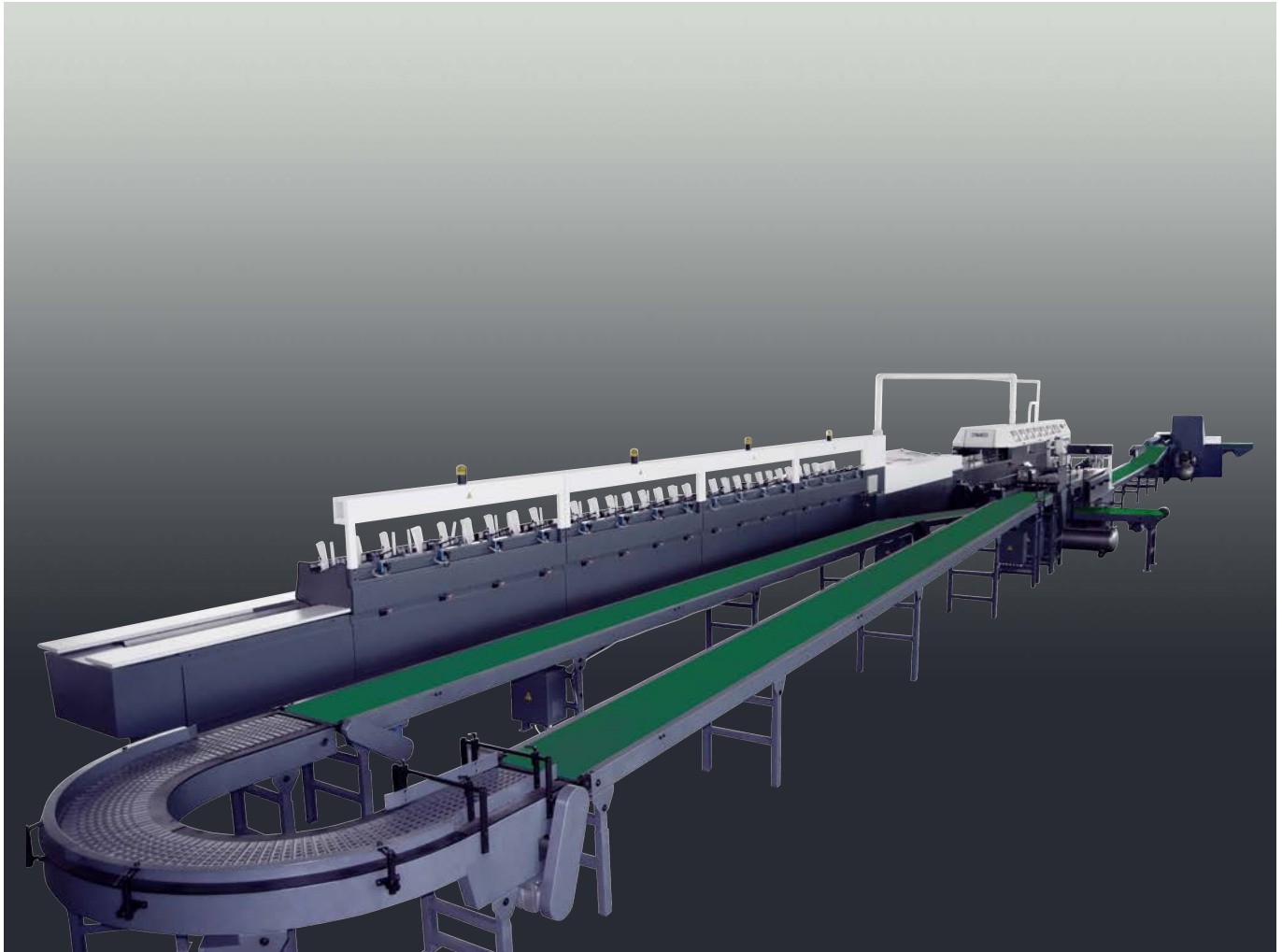


Challenger-5000 Binding System

Economical Perfect Binding Solution for Medium Production Runs



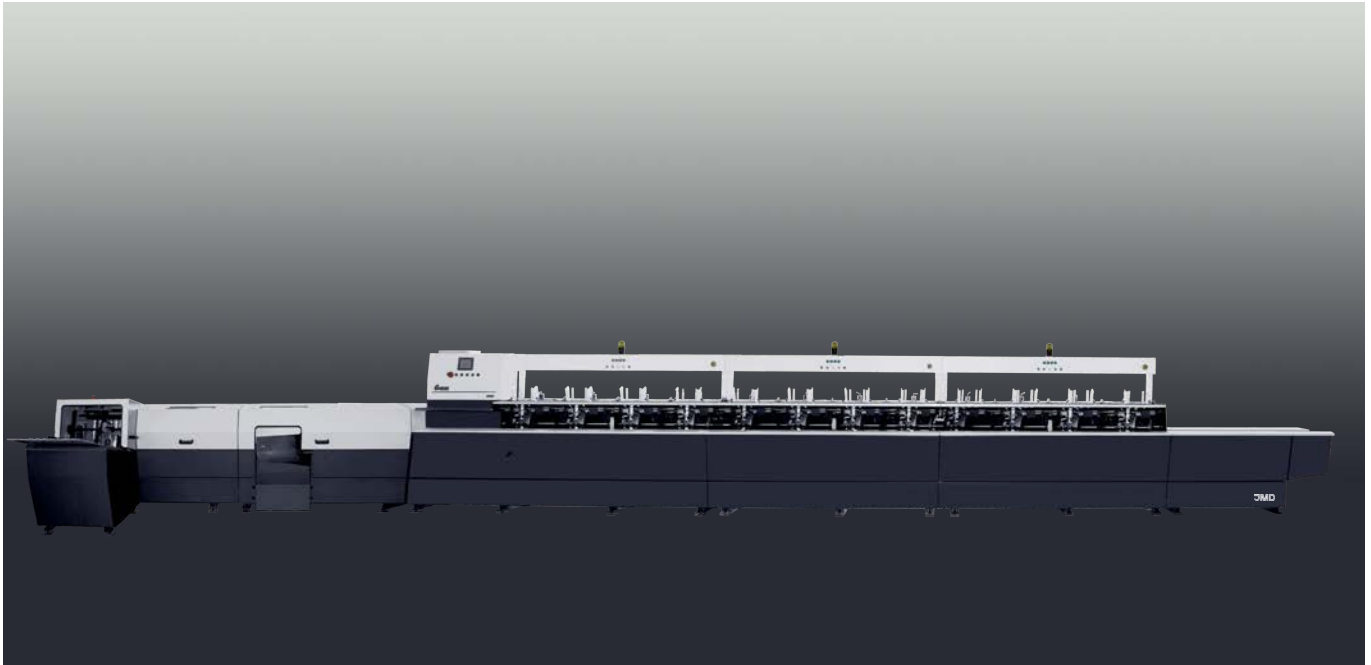
Challenger-5000 Binding System



The Challenger-5000 Binding System is an ideal binding solution for small to medium production runs with max. speed up to 5,000 cycles per hour. It features operational convenience, high productivity, flexible changeover for multiple binding methods, and excellent cost/performance ratio.

- High net output at 5000 books/hour with thickness up to 50mm.
- Position indicators provide user-friendly operation and precise adjustments.
- Spine preparation with powerful milling motor for top-quality spine forming.
- Rigid nipping and cover scoring stations for strong and accurate binding.
- European imported spare parts guarantee strong and consistent performance.
- Flexible changeover between hotmelt EVA and PUR binding method.

G460B Automatic Gathering Machine



G460B automatic gathering machine is speedy, stable, convenient, efficient and flexible. It can be used either as a stand-alone machine or connected in-line with JMD Superbinder-7000M/ Challenger-5000 Perfect Binder.

- Reliable and non-marking separating of sections thanks to the vertical gathering design.
- Touch screen allows easy operation and convenient fault analysis.
- Comprehensive inspection system for miss-sheet, double-sheet and paper jams.
- Easy changeover between 1:1 and 1:2 production modes brings high flexibility.
- Criss-cross delivery unit and hand feeding station are offered as standard features.
- Reject gate for wrong signatures ensures non-stop production.
- Excellent quality control is enabled by the optional signature recognition system.



G460B Automatic Gathering Machine

■ Touch Screen Control System

The touch screen control system allows easy operation and convenient fault analysis.



■ Vertical Gathering Stations

4 station as 1 unit, and maximally up to 32 stations. Auto signature inspection system on each station to detect miss-sheet, multi-sheet, and paper jams.



■ 1:2 Speed Mode Change Mechanism

High gathering speed with 1:2 speed change mechanism.



■ Reject Gate

The reject gate for faulty signature ensures a non-stop production.



■ Hand Feeding Station

Hand feeding station is provided for convenient feeding of additional signatures.



■ Criss-Cross Delivery Unit

The criss-cross delivery unit is provided for efficient collection of well-gathered book blocks.



Challenger-5000 Perfect Binder



The 15-clamp perfect binder Challenger-5000 is an ideal binding solution for small to medium production runs with max. speed up to 5,000 cycles per hour. It offers simple operation, and reliable performance with excellent cost/performance ratio.

■ Touch Screen Control System

Interactive operating menu provides simple and quick control of the machine. Production data, machine speed and malfunction information are clearly displayed on the touch screen.



■ Inclined In-Feed Station

Inclined infeed station includes connection with G460B gatherer (available for hand-feeding). The leveling table with integrated vibrator guarantees that all signatures are perfectly aligned before spine preparation.



■ 15 Book Clamps

All book clamps opening are adjusted at a time. Adjustment is more convenient thanks to the position indicator, which can provide stable and reliable clamping force to ensure high accuracy of each production step.



■ Two Spine Preparation Stations

Space-saving designed spine preparation stations provide milling, notching, and brushing. Working together with the reliable paper dust extractor, makes sure book spine is well prepared before glue application.



■ Gluing Application System

The standard configuration includes One Hotmelt Spine Glue Station and One Side Glue Station. The glue volume in the glue tank are kept in a stable level, since the glue in the pre-melt tank and the glue tank is automatically cycled. Movable gluing stations allow easy changeover between PUR and EVA in minutes.



■ Stream Cover Feeder and Cover Scoring

Flat in-feed design of cover feeder allows stable loading and feeding of large quantity covers. The specially designed dual-axis scoring rollers with large diameter enable straight and nice-looking scoring lines. Position indicator are installed for convenient and precise adjustment.



■ Nipping station

Thanks to the accurate and reliable cam structure nipping mechanism, cover can be precisely and firmly nipped with the book block.



■ Declined Delivery Unit

Specially designed lay-down conveyor can prevent book spine from deformation and connects the binder with the conveyor and trimmer.



■ PUR Glue application

Twin-Roller PUR Open Tank or Nordson Nozzle PUR System can be chosen to meet different requirements.



JMD Twin-Roller PUR
Glue Tank

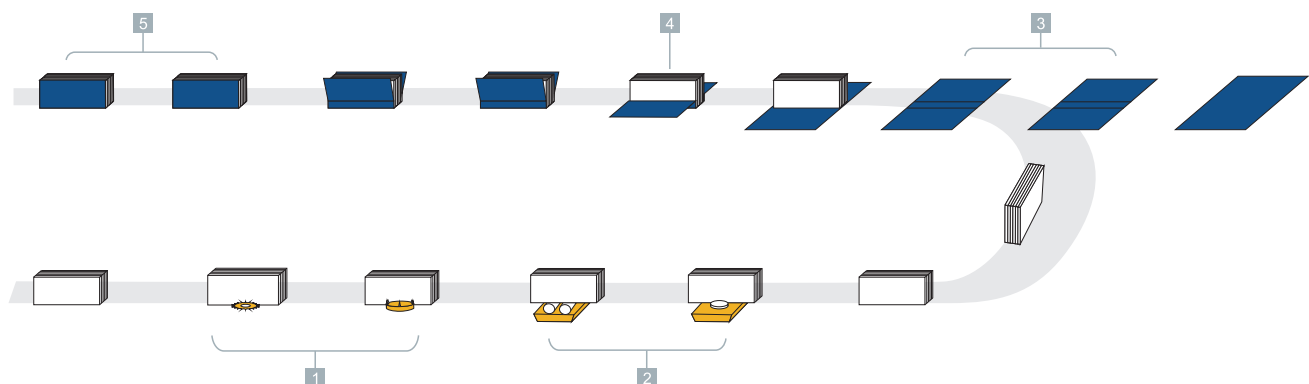


Nordson PUR Nozzle
System



Nordson PUR
Pre-melter

Work Flow



1 Spine milling, notching and brushing

2 Spine and side glue application

3 Cover feeding and scoring

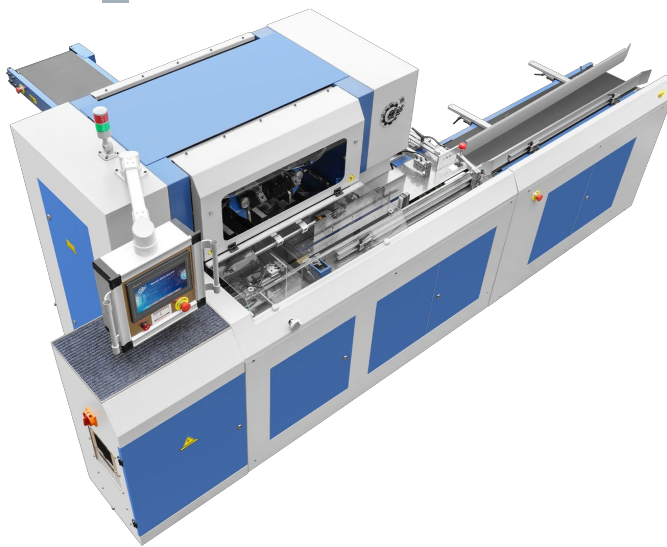
4 Book nipping

5 Delivery

Jingda QS100e

Supersplitter-6000

Jingda QS100e



The Jingda QS100e features sturdy configurations and precise trimming accuracy with a user-friendly touch-screen control system. This machine could be used standalone, or connected in-line with perfect binder for efficient book production.

- Streamlined process: untrimmed book feeding, positioning, pushing-in, pressing, trimming, output.
- Robust one-piece machine frame for a reduced vibration and higher trimming precision.
- No book no cut control avoid unnecessary movements and extend the machine lifetime.

Splitting Saw

Option

The Supersplitter-6000 Splitting Saw is specially designed for processing the double-book production in an economical way. Supersplitter-6000 can be used stand alone, or connected for in-line production.

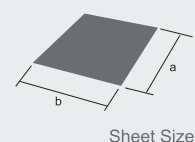
- Easy and quick changeover
- Solid construction for superior splitting quality



Technical Data

G460B

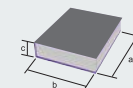
Machine Model	G460B/8	G460B/12	G460B/16	G460B/20	G460B/24
No. of Stations	8	12	16	20	24
Sheet Size (a)	196-460 mm				
Sheet Size (b)	135-280 mm				
In-line Speed	Max.: 8000 pcs/h				
Off-line Speed	Max.: 4800 pcs/h				
Machine Weight	3,000 kg	3,500 kg	4,000 kg	4,500 kg	5,000 kg
Length of Machine	10,736 mm	13,022 mm	15,308 mm	17,594 mm	19,886 mm



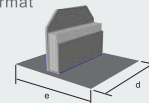
Challenger-5000

Machine Model	Challenger-5000
No. of Clamps	15
Mechanical Speed	5000 cycles/h
Book Block Length (a)	140-460 mm
Book Block Width (b)	120-270 mm
Book Block Thickness (c)	3-50 mm
Cover Length (d)	140-470 mm
Cover Width (e)	250-640 mm
Power Required	55 kw
Machine Weight	5,800 kg
Machine Dimensions (L × W × H)	9950×1900×1500 mm

Binding format

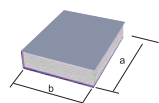


Cover format



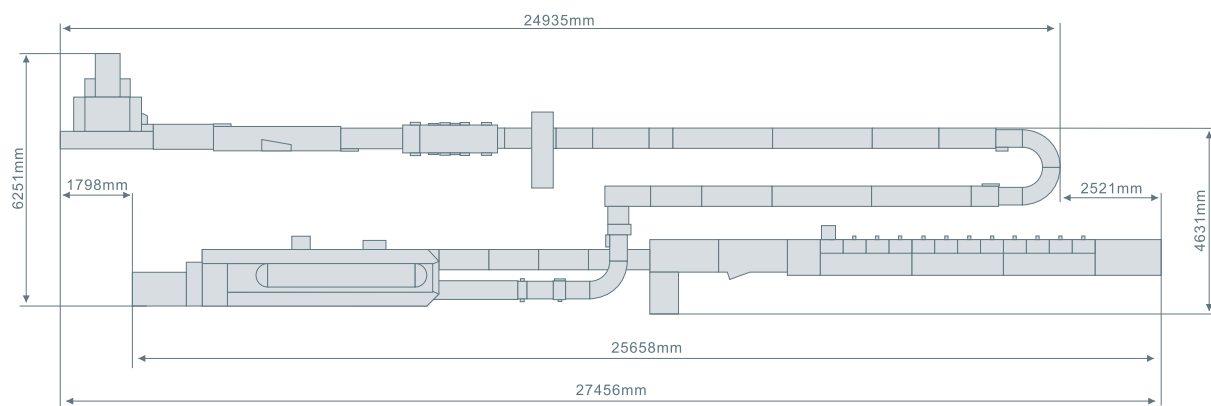
Jingda QS100e

Model	Jingda QS100e		
Untrimmed Book Size (a×b) (mm)	Off-line	Min.: 85×100	Max.: 445×310
	In-line	Min.: 150×100	Max.: 420×285
Trimmed Book Size (a×b) (mm)	Off-line	Min.: 80×95	Max.: 440×300
	In-line	Min.: 145×95	Max.: 415×280
Trim Height		Min.: 10 mm	Max.: 100 mm
Mechanical Speed		15-45 cycles/min	
Power Required		6.45 kw	
Machine Weight		4,100 kg	
Machine Dimensions (L × W × H)		3818×2390×1755 mm	



* The machine design and specification are subject to change without notice.

Machine Dimensions and Installation Space



Height:1500 Unit:mm



JMD Machinery Corporation Limited