

EXPLORE PERFECT BINDER



EXPLORE Perfect Binder is an innovative fully automatic PUR/EVA solution that adapts to various requirements of short-run binding, long-run binding, and on-demand book printing. The EXPLORE model features easy operation, rapid format conversion, and low maintenance service costs. This machine can be equipped with either a patented PUR glue nozzle system or an EVA adhesive system. The PUR glue nozzle system consists of a built-in preheated pressure glue pot with a capacity of 2KG and a nozzle device capable of applying spine glue and side glues simultaneously. The use of the built-in enclosed glue nozzle system sets the Explorer model apart from others.

► Technical Features

1. Utilizes a movable touchscreen for convenient single-person operation.
2. Compact single-clamp layout saves space.
3. **Data acquisition:** with automatic thickness measurement device. Each station of the machine can be automatically adjusted according to the thickness measurement data by servo motor.
4. **Book feeding platform:** Equipped with vibration function to aid in align book blocks.
5. **Book clamp:** Automatically adjusts opening width based on thickness measurement data.
6. **Spine Milling and Notching device:** Maximum milling/notching depth of 2mm ensures glue penetration, effectively preventing bottoming out, suitable for various types of book blocks; equipped with a dedicated cam mechanism to achieve overall lowering of the spine milling and notching station for processing sewn book blocks.
7. **Glue system can choose between PUR or EVA:**
PUR: Applies side and spine glues simultaneously, equipped with a 2kg pressure glue pot and automatic glue cutoff function.
EVA: Intelligent adhesive system with automatic glue cutoff for both spine and side glues, automatic adjustment of glue roller and glue bar height.
8. **Covering feeding system:** Equipped with automatic covering system, capable of stacking covers up to 85mm high, suitable for cover materials ranging from 80-300gsm, with die-cutting pressure line mechanism; the direction of pressure lines can be switched on the touchscreen as per requirement; creasing of cover flaps is also achievable.
9. **Nipping system:** Adjustable clamping time ensures high-quality formation of book spines.
10. **Book collection device:** Equipped with automatic lifting book collection table to reduce workload for operators.
11. **Interconnection:** Equipped with data collection box for bidirectional data exchange, facilitating cloud-based equipment, remote operation, and supporting smart factory construction.



Automatic Thickness Measuring Device



Movable Touchscreen



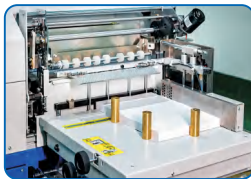
Book Feeding Section



Spine Milling and Notching Section



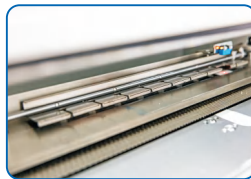
PUR Glue Tank Unit



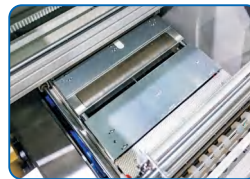
Cover Feeding Section



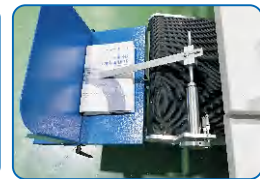
Cover Suction Nozzle



Cover Moving Device



Nipping System



Automatic book collecting section

► Technical Specifications

Clamps	1
Max. Mechanical Speed	500c/h
Max. Binding Size	410mm×310mm
Min. Binding Size	135mm×105mm
Max. Cover Size	680mm×415mm
Min. Cover Size	240mm×130mm
Binding Thickness	3mm-50mm
Cover Weight	80-300gsm
Max. Cover Stacking Height	85mm
Max. Milling Depth	2mm
Net Weight	950kg
Overall Dimensions (L×W×H)	2060×1900×1360mm