

# MODEL Y

## FULL SERVO WINDOW PATCHING MACHINE

(Ideal for all jobs: Flat & V-cut & Tissue Box)

MAIN FEATURES

- **High-Speed Efficiency:** Max speed 36,000 sheets/hr (200m/min); continuous 32,000 sheets/hr (185m/min), 24h non-stop.
- **Intelligent Sheet Collection:** Auto count & stack collection for non-box products.
- **Precision Control:** Full-servo system with ±1.0mm flat-patching, ±0.5mm registration accuracy. High-speed stable.
- **Long-Term Durability:** 35% load-reserve servos; > 15 year life span.
- **Intelligent Setup:** Digital settings + one-touch for glue, film, cut.
- **Synergistic Drive:** 9 servos for smart operation.
- **Precision Alignment:** Eliminates push claw and glue drive errors. Ensures accurate positioning.
- **Gentle Film Feeding:** Independent servo control. Smooth feeding, no stretching.

PRODUCT SAMPLES

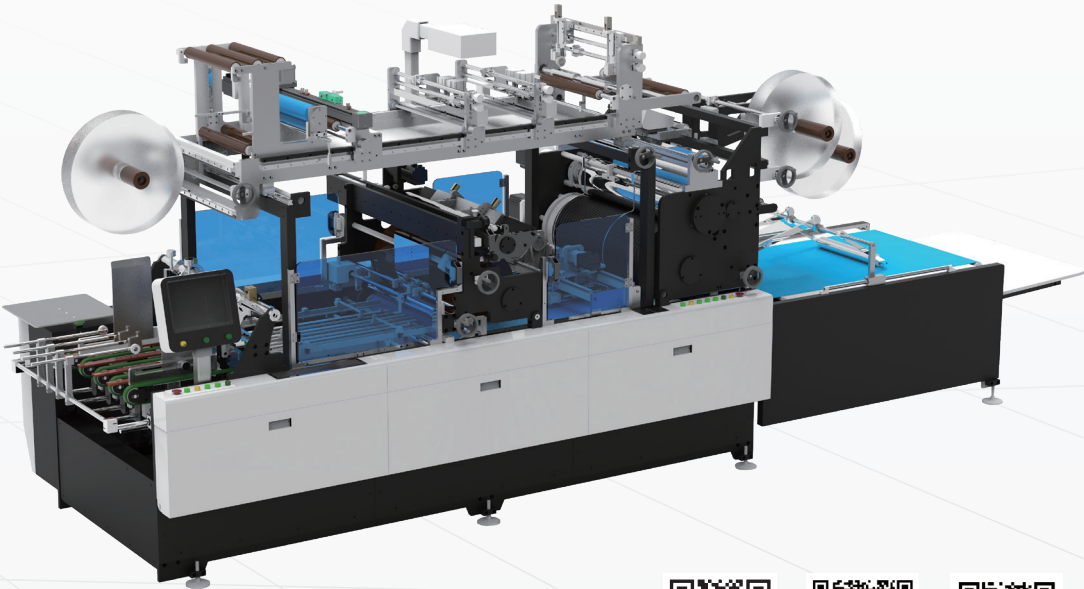
Electronic product Box, Cosmetic Box, Cake Box, Tissue Box, Toy Box, etc ...



TECHNICAL PARAMETER

Model	BTM-760Y	BTM-950Y	BTM-1100Y	
Flat Patching section	Paper specification 1st (W×L)	760×760mm-100×150mm	950×760mm-100×150mm	1100×760mm-150×180mm
	Machine speed 1st (W×L)	Up to 12000 sheets/hr 0~760mm	Up to 12000 sheets/hr 0~760mm	Up to 10000 sheets/hr 0~760mm
	Paper specification 2st (W×L)	760×420mm-100×150mm	950×420mm-100×150mm	1100×420mm-150×180mm
	Machine speed 2st (W×L)	Up to 24000 sheets/hr 0~420mm	Up to 24000 sheets/hr 0~420mm	Up to 20000 sheets/hr 0~420mm
	Paper specification 3st (W×L)	760×260mm-100×150mm	950×260mm-100×150mm	1100×260mm-150×180mm
	Machine speed 3st (W×L)	Up to 36000 sheets/hr 0~260mm	Up to 36000 sheets/hr 0~260mm	Up to 30000 sheets/hr 0~260mm
Registration section	Window dimension (W×L)	500×450mm-30×50mm	500×450mm-30×50mm	500×450mm-50×50mm
	Positioning accuracy	±1mm		
	Paper specification 1st (W×L)	760×760mm-100×150mm	950×450mm-100×150mm	1100×760mm-150×180mm
	Machine speed 1st (W×L)	Up to 15000 sheets/hr 0~760mm	Up to 15000 sheets/hr 0~760mm	Up to 15000 sheets/hr 0~760mm
	Paper specification 2st (W×L)	760×420mm - 100×150mm	950×420mm-100×150mm	1100×420mm-150×180mm
	Machine speed 2st (W×L)	Up to 15000 sheets/hr 0~420mm	Up to 15000 sheets/hr 0~420mm	Up to 15000 sheets/hr 0~420mm
Other Parameters	Window dimension (W×L)	500×400mm-30×50mm	500×400mm-30×50mm	500×400mm-50×50mm
	Positioning accuracy	±0.5mm		
	Paper weight/sheet thickness	Cardboard: 200-2000g/m <sup>2</sup> Corrugated board: 1-4mm		
	Film thickness	PET: 0.03-0.2 PVC: 0.03-0.25		
	Power voltage	380V/50Hz		
	Machine power	28kW		
Machine weight	3200kg	3500kg	4000kg	
Overall dimension (L×W×H)	5500×1600×2080mm	5500×1850×2080mm	5500×2000×2080mm	

※ The above speeds vary according to box shape and paper type.



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## PRODUCT HIGHLIGHTS



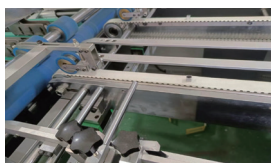
### Paper Feeding System

- Features optimally stable separation blades with zero wobble when locked, ensuring superior paper separation.
- Single-plate feeding belt simplifies maintenance and replacement.
- Linear bearings enable smooth front/rear movement of the paper pressing mechanism; pneumatic vibration motors reduce noise and optimize vibration.



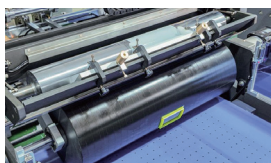
### Paper Pressing Wheel Assembly

- Gear-driven dual-power transmission on upper/lower wheels delivers exceptional stability during paper conveyance, particularly with corrugated paper.



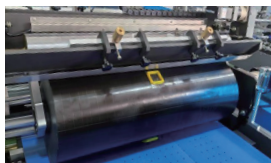
### Pusher Claw System

- Linear guide fixation eliminates vibration (vs. linear bearings), ensuring stable paper feed.
- Patent-certified synchronous belt drive provides quiet operation, stretch resistance, oil-free performance, low noise, and sustained precision.
- Front/rear adjustable press wheels adapt to product positions; side-fixed design simplifies setup. Side guides synchronize with claws to reduce adjustment frequency and time.



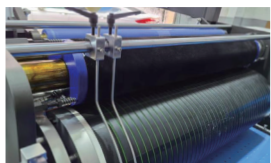
### Gluing System

- Independent servo drive allows parameter input via HMI without wrenches or phase adjustment.
- Hard-anodized aluminum alloy glue rollers offer lightweight and high hardness.
- Optimized program with glue sensor enables automatic activation with product presence, separation without product, and jam alarm /shutdown.



### Glue Distribution System

- Dedicated servo drive simplifies transmission and maintenance.
- Entire unit slides out for cleaning.



### Film Lamination & Cutting System

- **Lamination Unit:** Monolithic roller ensures stability; aluminum alloy wear-resistant air grooves; spring + screw mechanism enables zero-pressure contact and tool-free maintenance.
- **Cutting Shaft:** 180mm diameter/40mm wall; 17 deep holes + hundreds of air holes with end grooves ensure smooth cutting.



### Bottom Blade & Film Feeding

- **Bottom Blade:** Reinforced casting; V-shaped structure (spiral blade-inspired); 5mm sharp steel blade; detachable stainless steel bridge + felt prevent film scratching.
- **Film Feeding:** Dual rollers + long-arm pneumatic clamping for precise length control.



### Innovative Tissue Box Slotting Unit

- Independent servo drive enables digital position adjustment.
- Manual screw fine-tuning for lateral positioning.
- Surgical blades allow easy replacement.



### Film Unwinding & Collection System

- **Unwinding Unit:** Dual frames support dual-window patching; single-side fixation + operable-side access; magnetic particle brake; axial film sensor requires no recalibration.
- **Collection Unit:** Independent servo system with integrated counting function; Configurable sheet quantity and stacking intervals.



### Secondary Positioning System

- Utilizes secondary positioning technology to effectively eliminate errors from push claws entering the belt and glue spreading drive, enhancing overall positioning accuracy.



### Register Film Production System

- A modular register film production system integrates servo intelligent film feeding, long-distance film swinging, servo braking, and two-vertical-one-horizontal corner cutting and creasing functions, achieving high-precision intelligent film production.



### Electrical System

- INOVANCE components (China's top-tier brand) with bus-based control ensure efficient, stable operation and simplified maintenance.