

## Full-Servo High-Precision Eight-Color Printer & Die-Cutter

- High Precision: The precision of  $\pm 0.25\text{mm}$  is owing to servodrive, lead-edge feeder and vacuum suction transport system.
- High Definition: The printing line of 133Lpi is owing to the doctor blades system with ceramic anilox roll and the precise pressure regulating system.
- High Efficiency: The whole production line of feeding unit→dedusting unit→printing units→infrared drying unit→varnishing unit→ultraviolet & infrared drying unit→slotting unit→die-cutting unit→stripping unit→stacking unit can be working at the speed between 80p/min and 150p/min.
- Low Costs: Excellent design of some particulars and the efficient production line help to save more productive materials and labour cost.
- Super Adaptability: Dual anilox-roll device, adapt the printer to both white-coated paper and craft paper, not only fulfill the precise printing of high resolution, but also satisfy the general printing of large ink volume and printing width on the spot.

### Feeding unit

- Independent servomotor drive and control, there is no abrasion of gears, which ensures long lifespan and high precision.
- Lead edge feeder with negative tension can feed boards of different flute shapes and directions precisely and quickly. The fan frequency and wind size can be adjusted via HMI.
- Precise adjustment function of gap between feeding rolls ensures that the strength of boards would not be destroyed.

### Dedusting unit

- After the feeding unit, there is a specialized dedusting unit which can ensure the quality of precise printing of high resolution and general printing of large ink volume and printing width on the spot. This unit can also effectively reduces the times of cleaning plates when working.

## Printing unit

- Each unit adopts independent servomotor drive and control, so there is no accumulative error caused by gear abrasion, which ensures a high printing precision. And the simplified structure is convenient to maintain.
- Vacuum suction transport system provides full-plate printing and quality printing on warp boards. There is no tow area on boards, which helps to reduce wastage of boards. **The fan frequency and wind size can be adjusted via HMI. The damper of wind chamber can be adjusted automatically according to the boards length.**
- Precise adjustment system, adjust gaps between anilox roll and printing cylinder, printing cylinder and impression roll, as well as transverse position of printing cylinder, with digital readout and control, stable and convenient. Min. adjustment value is 0.1mm.
- Doctor blades device with ceramic anilox roll, scrape ink evenly to realize perfect spot print of high definition, and prolong blade's lifespan effectively.
- Inclined plate correcting device on printing cylinder, correct incline error of plate pasting, make it easy to lock printing plate on printing cylinder.
- Plate attaching device help to attach plate to the printing cylinder with a optimum tension, prepared for precise printing.
- Dual anilox-roll device (optional). There are two sets of anilox-roll and ink supply system in one printing unit, which adapts the printer to both white-coated paper and craft paper, not only fulfill the precise printing of high resolution, but also satisfy the general printing of large ink volume and printing width on the spot.

## Infrared drying unit

- Infrared drying unit adopts infrared to dry the printing surface rapidly before varnishing. The drying system would not cause a fire when an emergency stop happens, and you can adjust the drying width according to **the boards length** for saving electric power.

## Varnishing unit

- The structure of this unit is the same with printing unit, and it also can be called the **8th** printing unit. Both water-based varnish oil and UV varnish oil can be used.

## Ultraviolet & Infrared drying unit

- **Ultraviolet & Infrared drying unit adopts ultraviolet or Infrared to dry the UV varnish oil or water-based varnish oil before die-cutting, and you can adjust the drying width**

according to the boards length for saving electric power.

### **Die cutting unit**

- Independent servomotor drive and control, automatic return-to-zero, and printing precision would not be affected by cutting force.
- Automatic speed difference compensation device, linear speed difference due to abrasion of anvil mats can be compensated automatically, which ensures the same linear speed between tool cylinder and anvil cylinder as well as die-cutting precision.
- Anvil trimmer and automatic transverse transfer of anvil cylinder can prolong lifespan of anvil mats effectively.
- Advanced **hydraulic** system, when printing, tool cylinder will engage with anvil cylinder; once running without board, tool cylinder will disengage with anvil cylinder.

### **Stacking unit**

- Stacking height: 1700mm~1800mm.
- Conveying speed: infinitely variable speed.
- Conveyor belt: flat wrinkle belt that can avoid sliding.
- The motion of rise and fall can be achieved by manual or automatic way, and there are double safety protections of mechanism and electric appliance.
- **The hydraulic system speed of rise and fall can be adjusted according to the production speed.**

### **Controller**

- Our copyright computer software has precise automatic reset function which helps to save time of adjustment and reduce wastage of boards.
- Intelligent management system, including orders management, fault reminders, long-range management and maintenance.
- Dual operation system of man-machine interaction screen and manual electrical control.