RB350 Automatic rigid box maker

RB350 is the newly developed high-speed intelligent rigid box machine. It employs high speed motion controller, PLC programmable controller, Robot &camera positioning system, pneumatic system, HMI and remote monitoring system to automatically finish feeding and gluing paper, conveying cardboard, forming and pasting four corner of cardboard, positioning and bonding, and wrapping box in one time. Effectively replace manual production, greatly improving production efficiency and quality of finished boxes. It is applicable to make high-end boxes for mobile phones, shoes, shirts, cosmetics, perfume, moon cakes, sweets, chocolates, liquors, cigarettes, tea, etc.

Servo type wrapper:
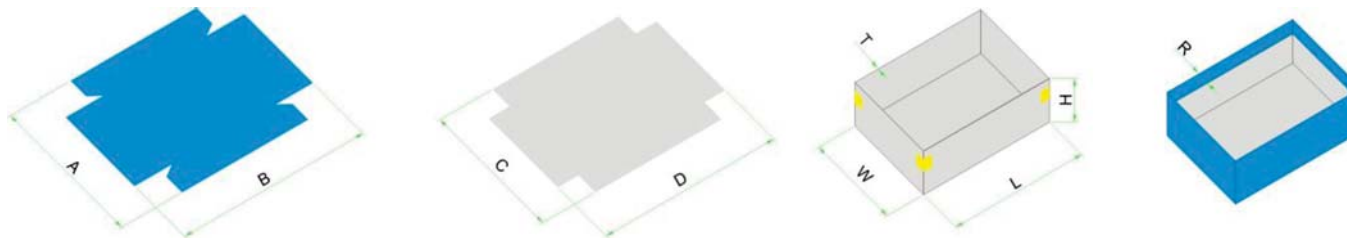
Flexible, Diversified,

Digital setting, Quick size changing

Features:

1. Automatic servo controlled paper feeder.

2. Automatic circulation, mixing and gluing system of hot-melting glue. (Optional: glue viscosity meter)

3. Glue preheating function. (Optional)

4. Non-stop cardboard feeding and stacking.

5. Hot-melting paper tape is automatic conveying, cutting, and pasting the cardboard box corners in one process.

6. Servo driven corner pasting unit, reduce the setting time, more accurate to paste the corners.

6. The vacuum suction fan under the conveyer belt can keep the glued paper from deviating.

7. The glued paper and cardboard inner box employ Robot and three camera positioning device.

8. Double wrapper unit, according to the conveying situation of the boxes above the conveyor belt, take the boxes to the wrapper unit in turn.

9. The wrapper can continually delivery boxes, wrap, fold ears and paper sides, form and press the box in one process.

10. It adopts 51sets servo and 14 sets stepping motor which realize the full automatic adjustment, data can be stored.

Main Technical Parameters:

The corresponding relationship between the parameters:

$W+2H-4T \leq C_{(Max)}$　　　　　　　　$L+2H-4T \leq D_{(Max)}$
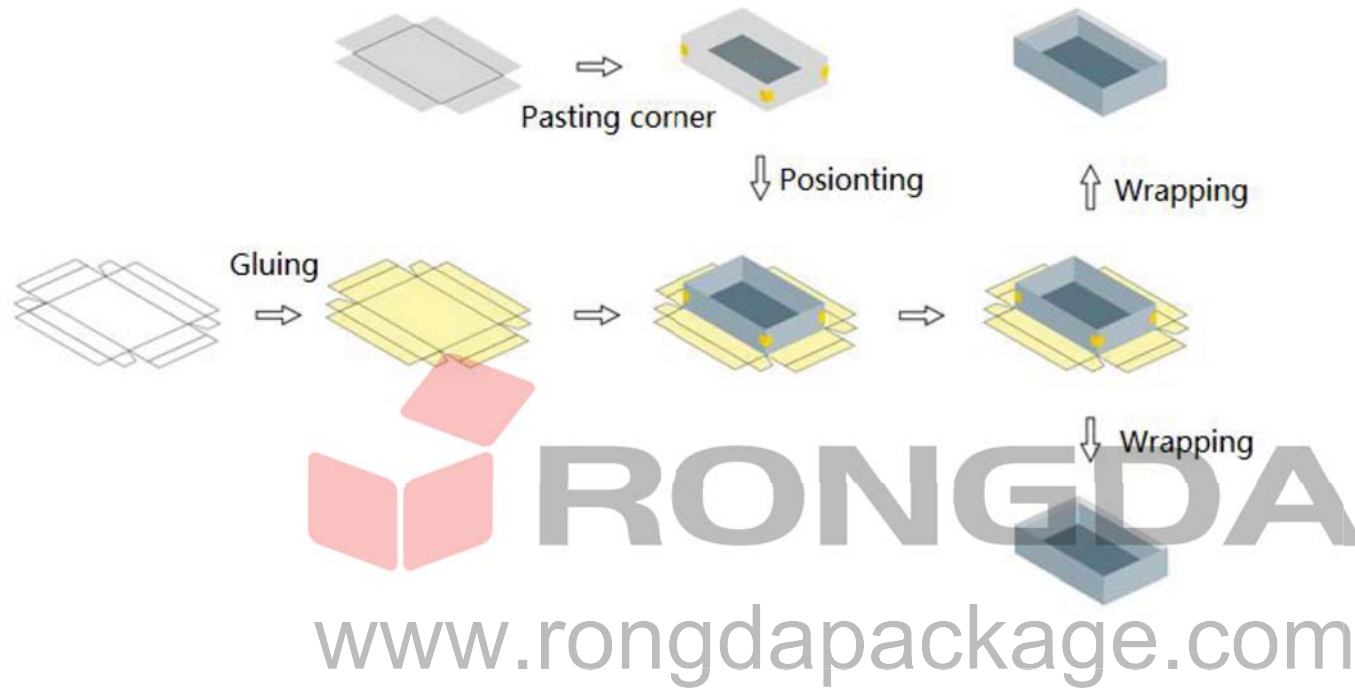
$A_{(Min)} \leq W+2H+2T+2R \leq A_{(Max)}$　　　　$B_{(Min)} \leq L+2H+2T+2R \leq B_{(Max)}$

	Model	RB350
1	Paper size(A×B)	Min.70*130mm, Max. 460*600mm
2	Box size(W×L)	Min. 30*50mm, Max.250*350mm
3	Box height(H)	10-100mm
4	Fold-in paper size(R)	10-90mm
5	Paper thickness	100-300g/m^2
6	Cardboard thickness(T)	0.8-3mm
7	Paper stacking height	630mm
8	Cardboard stacking height	1100mm
9	Precision	±0.10mm
10	Speed	＜55sheets/min
11	Motor power	30kw/380v 3phase
12	Heater power	10kw
13	Air supply	50L/min 0.6Mpa
14	Machine weight	6000kg
15	Machine dimension(L×W×H)	L6300×W5200×H3200mm

Remark:

1. The max and mini sizes of the boxes are subjected to those of the paper and the quality of the paper.

2. The speed depends on the sizes of the boxes.

Production flow:

Pasting corner

Posionting

Wrapping

Gluing

Wrapping

Samples:

Configuration:

No.	Item	Brand	
1	PLC	Japan	Omron
2	Servo system	China	Inovance
3	Bearing	China	Harbin
4	Pneumatic components	China	Airtek
5	Sensor	Germany	Leuze
6	Reducer	Japan	Shimpo
7	Touch screen	China	Weinview

| 8 | AC motor | China | ADLEE | |
| 9 | Electrical components | French | Schneider | |

Remark: The above parameter and configuration is subject to change without notice.