NY-803A

Pneumatic Ribbon Coder

Operation Manual

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Ⅰ. Company Profile

Our company is a science and technology enterprise specialized in the professional R&D and manufacture of coding machinery together with its consumables. Our company has successfully developed a new series of products like coding machine, punching machine, labeling machine and inkjet printer. More than 10 Coding Machinery Products have won national patents and awards. Besides, some of them have attained CE certification.

So far, our products have more than 20 different models, which have been widely used in many fields, such as pharmaceuticals, foodstuffs, beverages, cosmetics and so on. Our main products include:

(1) Desktop Series: NY-801A, NY-801B and NY-810.

(2) Matching vertical packing machine series: NY-802, NY-803A, NY-803B and NY-815.

(3) Matching horizontal packing machine series: NY-808A, NY-808B, NY-805, NY-808C and NY-818.

(4) Matching labeling machine series: NY-802B, NY-802C and NY-803.

(5) Matching multi-column packing machine series: NY-806A and NY-806B.

(6) Punching machine series: NY-809A and NY-809B.

(7) Consumables series: Hot ink roller, Color ribbons, Characters, Ink roller preheater, NY-811 Filling machine, NY-812 Filling valve, etc.

With high quality and good after-sales service, our products have been sold well and have got reliability and support from our customers. We warmly welcome all customers around the world to cooperate with us for mutual benefits and developments.

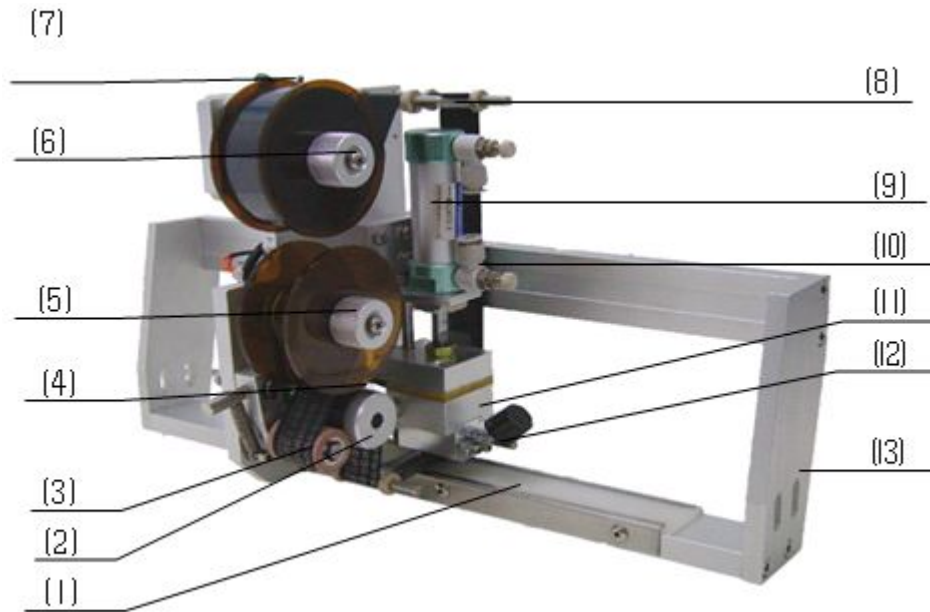# Ⅱ. Features & Applications

ⅰ Features

1. It adopts thermal printing ribbon which can avoid oil contamination and keep the surrounding clean.
2. Removable print head, easy and convenient to change the characters.
3. The print speed synchronous with packing machine, the coding results accurate and efficient.

ⅱ Application

It is applicable to such intermittent packing machines as box-packed packing machines, grain packing machines, etc and can be used to print notes like production date, lot number, price on such packaging material as plastic or paper bags, bottle, foil wrapper, leather and so on. The words printed are clear and endurable.

Ⅲ Technology Data & Structural Drawing of The Host Part

ⅰ Specification

(1) Printing Silica-gel (2) Pinch Roller (3) Rubber Components
(4) Adjustment Plate of Ribbon Entering (5) Ribbon Take-up Wheel (6) Ribbon Snap-out Wheel   (7) Ribbon Tension's Adjusting Bolt (8) Ribbon Guiding Pole (9) Air Cylinder (10) Adjusting Valve (11) Characters Printing Base (12) Print Head (13) Mounting Plate

ⅱ Technology Date

Model	NY-803A
Driver	Compressed Air
Power Supply	220V/50Hz
Power	150W
Print Speed	0-200 times/min
Font Size	2mm×4mm×15mm
Consumables	Ribbon
Size(L×W×H)	400mm×200mm×240mm
Weight	4kg

Ⅳ Operation instruction
1. Coding printer mounting
⑴ Rack section (stander) mounted under the packing film;
⑵ Install control unit (220V);
2. Loading ribbon
Screw off the nuts on the ribbon snap-out roller, take off the movable organic glass baffle board and then load the thermal printing color ribbon and the baffle board which should touch one side of the ribbon closely, then wind the ribbon.
Screw off the nuts on the ribbon take-up roller, take off the baffle board and then load the hollow cardboard cylinder (which remains after the ribbon is used up). Then

adhere one end of the ribbon to the hollow cardboard cylinder with the glue, take notice that the direction should be consistent as indicated. Then load the movable baffle and tighten the nuts.

3. Change the width of ribbon

Adjust the axial location of the outer belt-guide loop block, which should be 1mm wider than the width of the ribbon (the inner loop block need not be adjusted).

4. Adjustment of the delivering resistance

During the process of printing, the delivering resistance should be diminished as possible under the premise of non-looseness so that can ensure the ribbon will not adhere to the printed material or off-tracking.

5. Presetting of the linking pole and adjustment of pressure

Preset the position of linking pole and adjust the screw nut for setting pressure according to the thickness of the material for printing to ensure the printing head just presses lightly on the package strap when it is at the lowest position. Adjust the bolt for setting pressure to ensure that the characters can be clearly printed. If the pressure is too high, the ribbon and the material for printing might be cracked or broken up; if the pressure is too low, the printed character might not be clear.

6. Adjust the travel interval of ribbon delivery

The travel interval can be adjusted by regulating the position of the bolt. The best distance between the print lines should be 1 mm to save the ribbon.

7. Temperature control

Turn the main switch to "ON", and set the heating controlling button to the position from 2 to 5 on the dial plate, turn the printing switch on and start the master, then the number printer can work.

8. Changing the Character

Pushing the handlebar of loading the characters (about 1.5～2mm) inside, and revolving it to 90～180°, pull off the hook, withdraw the character module and unscrew its bolt. The characters should be load at the same height. Don't hammer the characters with the metal stick, just to avoid damaging the characters.

9. Cleaning

To avoid the belt be sticky or slip and effect the clarity of printed characters, please use the absolute alcohol clean the surface of delivery roller & pinch roller and the belt guiding pole regularly.

Ⅴ Disposal of Malfunction

1. Temperature too low

Because of inadequate time for preheating, the preheating should take at least 15 minutes. In the case of emergency, the temperature regulating knob could be set to a high temperature for a while to obviate the malfunction of the heating system. And then the temperature regulating knob could be reset at the best scale with the temperature rising.

2. Too high temperature which causes scalded and colorless character

 Lower the temperature.

3. The print pressure not enough

Frame of printing should be adjusted higher.

4. The ribbon too tense to move

Loosen the nut for regulating tension.

5. The thermal printing strap soaked water or oil.
 Change new thermal printing strap.

6. The aging of rubber board: Change them with new ones.

7. Abnormal delivery of ribbon

⑴ Check the delivering parts, tighten the spring, and increase the pressure. If the pressing wheel and the delivering wheel don't contact well or are not parallel or symmetrical also may result in the situation.

⑵ Much resistance on delivery belt, then loosen the nuts for regulating that.

8. Characters not well fixed: Reinstall the characters to ensure them at the consistent level without deflection.
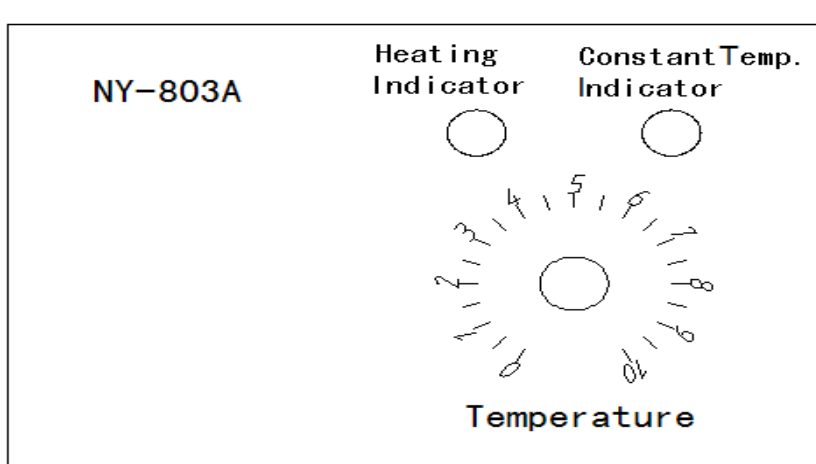
9. The color ribbon set inversely or slanting
 Any distortion, defection and nonparallelism of the guiding poles, the malposition of the belt-guide blocking loop and the insufficient contact or unparallelism between the pinch roller and the delivery roller all may result in the ribbon slanting. Reset the color ribbon.

10. The printer unable to work after installation
 Check if any faulty installation or malfunction in the control casing.

Ⅵ Adjustment

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NY-803A        Heating          ConstantTemp.
               Indicator        Indicator
                  ◯                ◯

                    4  5  6
                 3           7
               2               8
                      ◯      9
               1            10
                  0       10

                  Temperature
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Temperature:

Scale	0	1	2	3	4	5	6	……
Coincide Temp. ℃	100	110	120	130	140	150	160	……

Ⅶ

The wiring diagram of Aero Sockets 4P for NY-803 Common Date Coder

The red wire connect to the thermocouple +
The green wire connect to the thermocouple –
The yellow and blue wires connect to electro thermal tube 220V
red→1
green→2

yellow→3

blue→4

The Connect Method of Solenoid Valve 3P Aero Sockets for 803 High speed Date Coder

① Socket   Solenoid Valve Positive Electricity   Red Wire

② Socket   Solenoid Valve Signal   Black Wire

③ Socket   Empty