

High Speed Paper Slitter Rewinder Machine

All must new (less than 2 years of use) situated Barcelona-Spain





Uses:

The machine is mainly used to slit and rewind stick paper, craft paper, fluting paper, thermal paper and other kinds of paper rolls, thickness range from 70-440gsm.

Main mechanical configuration:

1, Main body unit:

1. Machine's main body adopts cast iron and steel structure, thickness 80mm.
(cast iron after secondary operation and setting treatment)
2. Main driving roller adopts seamless steel pipe (after tempering, surface hardening, chrome plated, mirror surface, dynamic balance treatment)
3. Main driving press roller adopts seamless steel pipe.

4. Material guide rollers adopts steel rolls (aluminum alloy) and rubber roll (nitrile-butadiene rubber)

5. Driving mode of main body and rewind shafts adopt synchronizing wheel and belt.

2, Unwinding unit:

1. Unwind unit adopts separate structure. Adopt hydraulic shaft less arm system to clamp and lift jumbo rolls, improving efficiency and reducing labour intensity; the jumbo roll paper core can be 3-12”.

2. It adopts removable bracket with guide rail.

3. 1 set bias adjustable device can fine tune left and right, forward and backward through hand wheel.

4. Unwind tension's actuator is 2 set Italy brand RE pneumatic brake, through PLC and proportional valve to achieve a constant tension.

5. EPC uses TAIWANESE brand PAUSOURCE corrective device, it can achieve guide function by material's edge.

3. Rewinding unit:

1. Shafts adopt 3 inch air shaft, 2pcs. (one in machine, one as spare).

2. Rewind tension's actuator is 2 sets rubber rollers 400mm diameter and cooperate with press arm to control. (each roller connect with 1 motor and 1 gear box)

3. Good quality Banana rollers for spreading the paper rolls. The banana roller curve is controlled by hydraulic system; and angle adjusted by handwheel, for different thickness of paper, the banana roller angle and height will be different.

4. Slitting knives are specially designed for high speed paper slit job, its 5 sets Pneumatic circle knife, Maxcess Tidland USA brand included. Upper blade 150mm diameter, down knife 200mm. The down knife roller use one motor and inverter controlled.

5. Equipped with Paper Edge Waste suction device: collect slit paper edge, and transfer it to a certain place, for easier cleaning.

6. Automatic pneumatic ejector for finished rolls, push it to bucket.

7. Hydraulic download system for rewind rolls to load it to near ground level.

4. Electrical equipment unit:

1. Main motor inverter adopts 2 pcs inverter.

2. Main motor adopts 2 pcs vector motor.

3. EPC adopts analog control. Drived by servo motor through ultrasonic sensor.

4. Adopts imported PLC to achieve accurate and stable control, true color touch screen display to enable simple and beautiful images. Interactive parameter setting the environment, eliminating the complicated configuration can start the job: The user pre-start only need to input the material thickness, width, density, diameter and speed parameters, the next will be done automatically by a computer calculation to complete.

5. With the functions of automatic and manual acceleration and deceleration.

Main technical parameter:

| | |
|---------------------------------|------------|
| Jumbo roll width | 350-2500mm |
| Dia. of paper core for unwinder | 3-12" |
| Diameter of Unwinder roll | Ø1850mm |
| Max. Jumbo roll weight | 5000kgs |
| Paper thickness range | 70-440gsm |

| | |
|--------------------------|--------------------------|
| Diameter of rewinding | Ø1850mm |
| Dia.of core for reiwnder | 76mm, 152mm, 200mm,300mm |
| Slitting speed | 10-600m/min |
| Tolerance of EPC | ≤0.1mm |
| Min.slitting width | 100mm |
| Weight | 17000Kg |
| Power supply | 380V-3Phases |
| Total power | 80KW |
| Machine dimension | 4700x5200x4500mm |

Main configuration:

| | |
|---|----------------------------|
| PLC | SIEMENS GERMANY |
| MAIN MOTOR INVERTER x 2pcs | REXROTH GERMANY |
| TOUCH SCREEN | SIEMENS GERMANY |
| EPC CONTROLLER | PAUSOURCE CHINA |
| EPC DRIVER | PAUSOURCE CHINA |
| EPC SENSOR | PAUSOURCE CHINA |
| PNEUMATIC BRAKE 2PCS | RE ITALY |
| AIR PROPORTIONAL VAVLE | FESTO GERMANY |
| MAIN MOTOR x 2pcs | SIEMENS BEIDE CHINA |
| BANANA ROLLER 1pc | JINGYANG(TAIWAN) |
| RUBBER ROLLERS 2pcs | CHINA BRAND |
| MAIN PNEUMATIC ELEMENT | AIRTEC(TAIWAN) |
| HYDRAULIC LOADING SYSTEM | CHINA BRAND |
| MAIN BEARING | NSK(JAPAN) |
| GUIDE RAIL | HIWIN(TAIWAN) |
| AIR SHAFT FOR REWINDING 76mm 2PC | CHINA BRAND |
| SHAFTLESS AUTO LOADER FOR UNWINDER (3"-6"-12") | ZHONGTAI MADE |
| LOW-VOLTAGE APPARATUS | SCHNEIDER(FRANCE) |
| BUTTON AND SWITCH | SCHNEIDER(FRANCE) |
| PNEUMATIC CIRCLE KNIVES | 6 SETS MAXCESS TIDLAND USA |
| KNIFE ROLLER MOTOR | SIEMENS BEIDE CHINA |
| KNIFE ROLLER INVERTER | REXROTH GERMANY |

Tool part list:

| | | | | | |
|----|-------------------------|------|----|------------------------|------|
| 01 | inner hexagonal spanner | 1set | 05 | oil gun | 1pc |
| 02 | Monkey spanner | 1pc | 06 | air gun | 1pc |
| 03 | a-liner screwdriver | 1pc | 07 | air tap | 2pcs |
| 04 | Cross screwdriver | 1pc | 08 | operation instructions | 1pc |



5 circular knives

Additional machine:

Automatic paper core cutting machine (2400)



| NO | Technical Requirement | Specific parameters |
|----|------------------------------|--|
| 1 | Name | Automatic paper core cutting machine |
| 2 | Model | 2400 |
| 3 | Function | Suitable for paper tube cutting with length less than 2400mm |
| 4 | Scope of application | Customized inner diameter(standard with 3inch), thickness 3-20mm |
| 5 | Input voltage | 380V Three-phase four-wire |
| 6 | Main power | 2.2 KW |
| 6A | Servo motor power | 1.5kw |
| 7 | Transmission method | Belt |
| 8 | Cutting speed | 40000 pieces, 8 hours,max. 60cuts/min (the length of the paper tube is different) |
| 9 | Loading | Manually |
| 10 | Unloading | Manually |
| 11 | Cutting method | Circular knives (auto), 3pcs of blades included |
| 12 | Piece counting method | Automatic |
| 13 | System | PLC CHINA |
| 14 | Control panel | Text display (Xinjie) |
| 15 | Drive and motor brand | China |
| 16 | Switching power supply brand | Taiwan Mingwei |
| 17 | Relay brand | Xinling |
| 18 | Contactors, Circuit breaker | DELIXI China |
| 19 | Screw Brand: | TAIWAN TBI |
| 20 | Weight | 480KGS |
| 21 | Number of operators: | 1 PERSON |