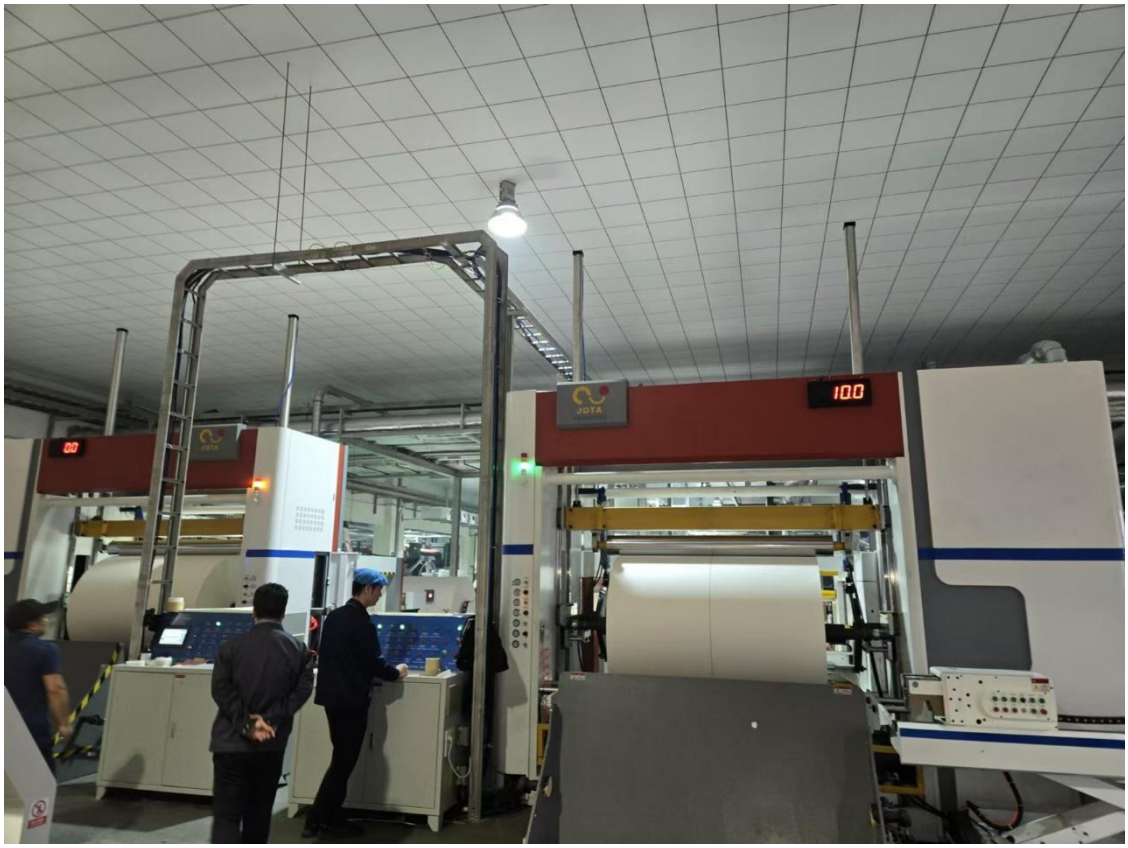
Jota Machinery

JT-SLT-2200C Automatic Drum Paper Slitter Rewinder Machine



Main Parameters

Unwinding Width	1000mm-2200mm
Max. Unwinding Diameter	1500mm
Max. Rewinding Diameter	1500mm
Slitting Blades	5 sets of Pneumatic Slitting Blades
Max. Machine Running Speed	10m/min – 500m/min
Min. Slitting Width	100mm
Rewinding Shaft	3”(76mm) air expand shaft (can be customized)
Frequency Inverter Motor	27 KW*2pcs
Unwinding	Shaftless Unwinding Stand for 3inches and 6 inches core

Specification

Paper Guide Roller Device		
Machine adopts very thick frame; it will be very stable when machine operate.		
Paper Guide Roller	φ240mm×3050×16	1 pc
Bearing Seat	HT200	2 pcs
Bracket		2 pcs
Slitting System		
The device is composed of a lower round knife device, an upper round knife device and so on.		
The lower round knife device is composed of a knife shaft, a round knife, a bearing seat and a frequency conversion motor. The machine is equipped with 4 lower round knives with an outer diameter of φ200. The round knife shaft is driven by a frequency conversion motor.		
The upper round knife device is composed of beams, cylinders, knife holders, round knives, linear guides, etc. The machine is equipped with 4 upper round knives. When adjusting the position of the upper round knife, loosen the nut to move laterally on the linear guide. When adjusting the amount of engagement between the upper and lower knives, loosen the square head nut and move the upper round knives up and down for adjustment. After adjustment, tighten the nut. The diameter of the upper round knife is φ190, and its lifting and falling actions are all controlled by the air cylinder, as long as the control box panel control slitting and knife inlet air valve is set to the "up" or "down" position.		
The upper round knife beam is a channel steel welded structure to support the upper round knife. It is installed on the rear column of the frame, and both sides are equipped with adjusting devices, which		

can be adjusted up and down on the whole column.		
There is a φ200mm paper supporting roller at the front and back of the lower round knife, so that the paper web can be on the same plane. The supporting roller is used to support the paper and make the paper enter the slitting device at a constant angle.		
Supporting paper roller	φ200 mm	2 pcs
Supporting roller bearing seat	HT200	2 pcs
Bracket	A3	2 pcs
Knife shaft		1 set
Knife Motor	2.2 kw	1 set
Bearing	GB281-86	4 pcs
Support roller device		
The role of the supporting roller is to support the paper roll and drive the paper roll to rotate during the entire rewinding cycle. The support roller device is composed of front and rear support rollers and bearing devices. The supporting roller has been checked for dynamic balance, and the balance speed is 800m/min.		
The roller body is a seamless tube, and the surface of the front roller and the rear roller are chrome-plated to prevent the paper roller from slipping and paper scratches.		
Spindle head	45# steel quenching and tempering treatment	
Bearing seat	HT 200	
Press roller device		
The function of the paper pressing roller is to control the load of the nip between the paper roll and the supporting roller, and it is composed of paper pressing roller, oil cylinder, sprocket, sliding seat, beam and so on. The pressure roller has undergone a dynamic balance test, and the balance speed is 800m/min.		
Press Roller	φ270mm×3090×16	1 pcs
Bearing Seat	HT 200	2 pcs
Banana roller		
The device includes a movable arc-shaped roller, the arc direction of the movable arc-shaped roller can be adjusted according to the thickness of the paper, and the paper is flattened in the best direction according to the operation requirements. This machine is equipped with a movable arc roller, which is installed after the paper web is slit. This installation can ensure the paper web to be fully flattened when running at high speed.		

Banana Roller	φ190mm×3000	1 pcs
Bearing Seat	HT 200	2 pcs
Push paper roller device		
The paper push roller device is installed on the front column and consists of paper push roller, rotary arm, air cylinder, etc.		
Push Roller	φ150mm×3000*12	1 pcs
Support	welding	4 pcs
Swing arm	welding	2 pcs
Cylinder		2 pcs
Roll paper top tightening device		
Press paper roller is to keep constant pressure between rewinding rolls and support rollers. The oil cylinder function is supporting the more pressure when rewinding rolls become larger and larger.		
Bracket	Welding parts	2 pcs
Pallet	HT 200	2 pcs
Head	45#	2 pcs
Outer sleeve	HT 200	2 pcs
Screw	45 #	2 pcs
Nut	Tin bronze	2 pcs
Unloading table device		
The function of the unloading table device is to unload the rewinded paper tube from the supporting roller to the ground.		
The paper unloading table device is composed of a paper unloading table, a φ100 oil cylinder, and a bearing seat. The surface of the unloading table is a steel welded structure. When the finished paper roll is completed, the operation table "lifts" the unloading table, and then the paper roll is pushed onto the unloading table by the paper pushing device, and the "down" is adjusted on the operation table. Press the button to slowly unload the paper roll, and the unloading speed is adjusted by the throttle valve, that is, the "rising" and "falling" of the paper receiving table are controlled on the electrical console.		
Oil Tank	φ100 *820	1pcs
Unloading table		1 pc
Bearing Seat		2 pcs

Rack device		
The device is mainly composed of a bottom rail, a front column, a rear column, and a crossbeam. The frame structure is reasonable in shape, and has good rigidity and high strength, which can meet the requirements of safe work at higher speeds. Linear guide rails are installed on the frame, and the paper cutting lifting device, roll paper top core and pallet can slide up and down along the guide rails.		
Front and rear columns		4 pcs
Base board	HT 200	2 pcs
Beam	Welding	4 pcs
Linear guide rail		4 pcs
Transmission		
The transmission device is composed of a motor, a gear reduction box, a brake, a base, etc., and its purpose is to drive the front support roller to rotate. The coupling between the reduction box and the motor is equipped with a brake wheel, which is matched with the brake. It will act as an emergency brake at the time.		
The device uses the main motor to transfer the power to the supporting roller through a gear reducer, and a double output shaft type reducer is selected.		
Main Motor		1 PCS
Double output shaft reducer		1 PCS
Transmission chassis	Welding	1 pcs
Coupling	HT 150	3 set
Hydraulic brake		1 set
Pneumatic and hydraulic system		
The hydraulic device sends the hydraulic oil to the pressure holding or lifting mechanism of the bed knife roller from the hydraulic station through the console.		
The pneumatic device sends compressed air into the paper pushing mechanism.		
Control requirements		
Double bottom roll control of rewinder		
In the rewinding process, as the diameter of the finished paper roll continues to increase, the tightness of the inside and outside of the finished paper roll can be ensured to be consistent.		
Lower knife roll control		
The lower element knife is driven by an AC motor separately, and the motor control adopts AC frequency conversion speed regulation. The deviation of the bed knife speed to the paper web speed		

can be adjusted according to the needs of the paper type.
Magnetic powder tension control of rewinder
The unwinding part is equipped with pneumatic tension control, and the tension setting is realized on the operating table to ensure stable tension and performance.
Hydraulic pressure control of platen roller

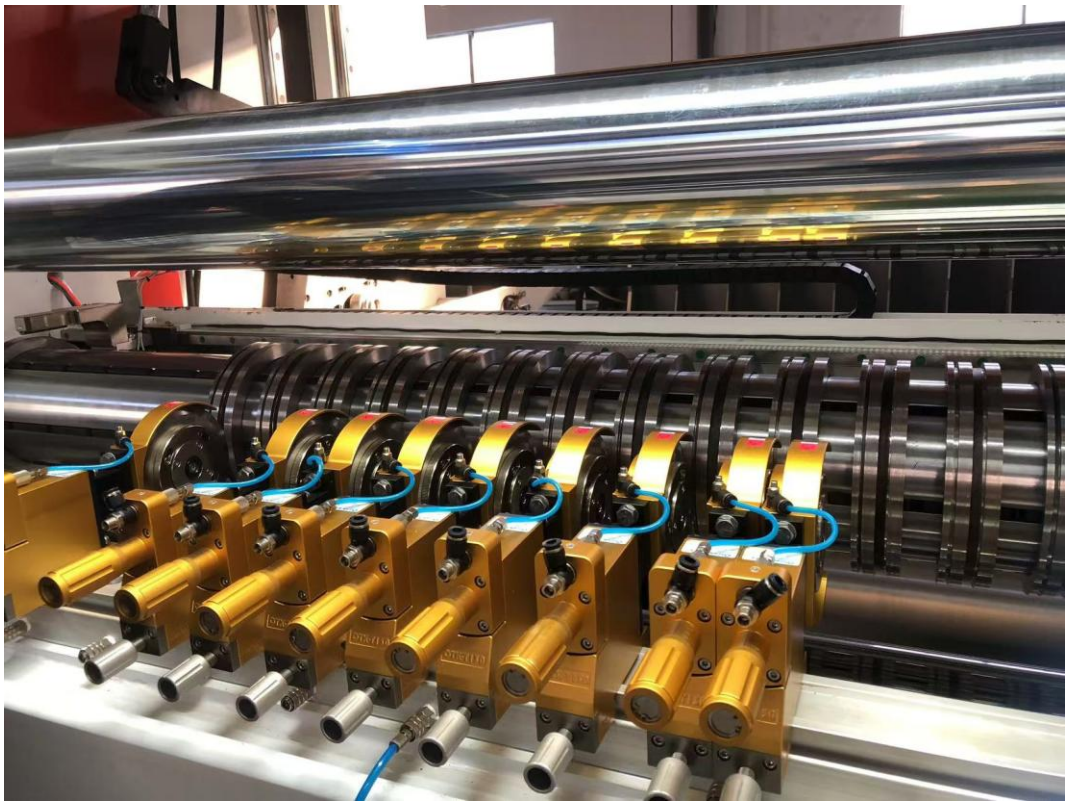
Configuration

Name	Model	Pieces
Diameter of front bottom roller	Φ420mmX3050 *25	
Diameter of back bottom roller	Φ420mmX3050 *25	
First paper guide roller Diameter	φ240mmX3050 *16	**1**
Support paper roll diameter	Φ200mmX3050 *16	
Banana Roller Diameter	Φ150mmX3000	
Pressure Roller Diameter	φ270mmX3090 *16	
Magnetic powder tension control	1000N	2 sets
Motor	22 KW	1 set
Knife motor	2.2 KW	1 set
Hydraulic Station Motor	2.2 KW	1 set
Brake		1 set
Pressure roller oil cylinder	DG100*800	2 pcs
Push Paper Roll Cylinder	JB160*440	2 pcs

Name	Model	Quantity	Origin
PLC	Siemens	1 pc	Germany
Touch Screen	10-inch Siemens	1 pc	Germany
Low Power Switcher	Schneider	All	France
Inverter	YASAWA	3 sets	Japan
Proximity switch	Omron	All	Japan

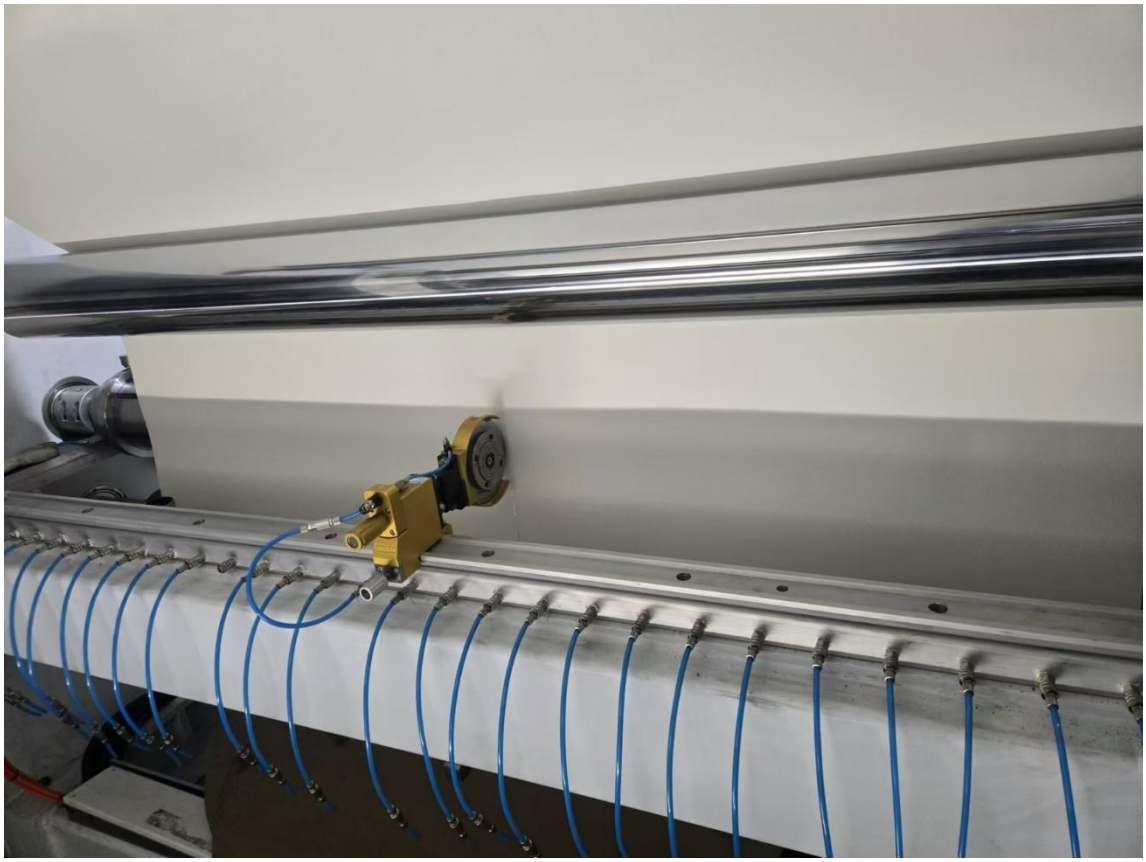
Machine Details Images

Pneumatic Blade System:



Automatic Splicing Table & Web Guide System

Banana Roller



Rewinding Support Roller

Siemens HMI

Thailand Customer Feedback

Feedback from APP's Factory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