

## Royo Machinery USA, LLC

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**ROYO MACHINERY**

**Dayuan SMC SM GM CM GZH Series Servo  
Precision High Speed Sheet Cutter &  
Crosscutting Machine**





Main technical parameter	
Model	GZH-1450
Reference weight of cutting paper	60-550GSM
Cutting precision	+/-0.3mm
Max. cutting speed	120sheets/min
Max. cutting meter speed	90m/min
Cutting length range	450-1450mm
Max. scroll diameter	1800mm
Paper piling height	1200mm
Max. paper cutting width	1450mm
Gross weight	6000/7000kg
Full-load Power	15kw

Main technical performance	
The face of operation control by computer	
Simple and convenient	
Double arm oil pressure shaftless mill roll stand	
Tension control system	
Automatic directing system	
The number of overlapping sheet can be adjusted by the overlapping unit	
Single sheet outlet can be adjusted by the overlapping unit	
PLC control system	
AC servo motor	
High precision encoder	
High precision cutting	
Long endurance	
Adopt AC transducer	
Adopt cutting-knife turn it by protrude wheel	
Adopt imported ABB linear guide way	
High precision special steel knife	
Cutting precision ±0.3mm	

Our company reserves the right to change technical parameter without futher notice.



- 1

Paper Cutting Unit

Adopt cutting-knife turn it by protrude wheel

Adopt imported ABB linear guide way

High precision special steel knife

Cutting precision ±0.3mm
- 2

Electric Control Unit

PLC control system

AC servo motor

High precision encoder

Adopt AC transducer

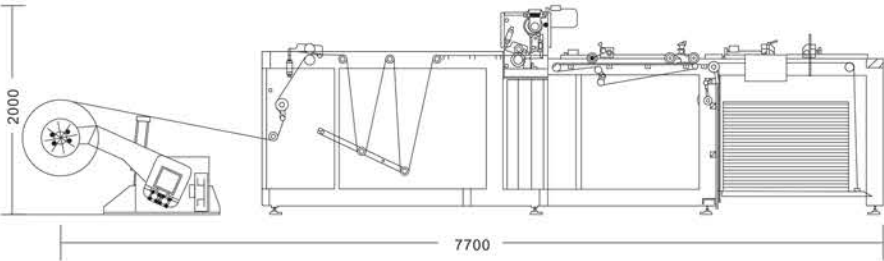
High precision cutting

Long endurance
- 3

Paper Operation Unit

The face of operation control by computer

It's simple and convenient





RCM

1100A  
1400A  
1700A  
1900A

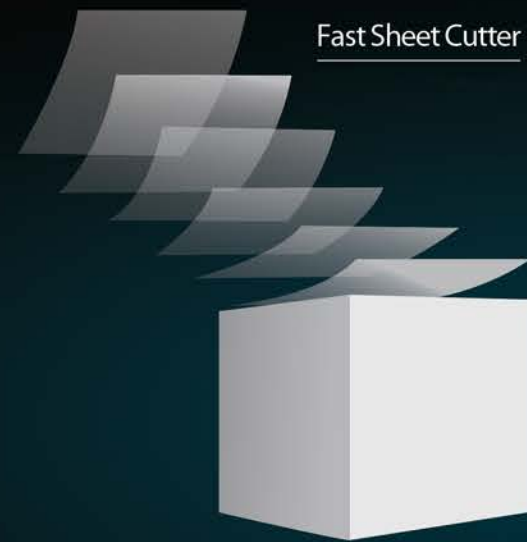
Double Servo Precision High Speed Sheet Cutter  
(Photoelectric Tracking Series)



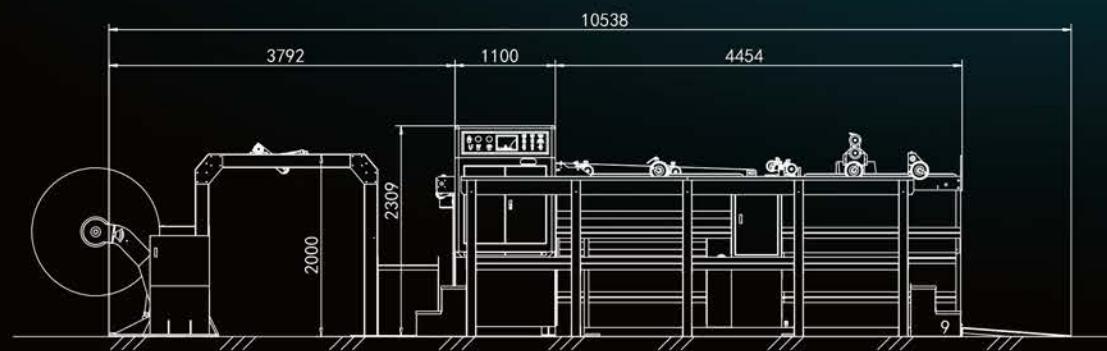
Photoelectric tracking system



Edge position controller system



Fast Sheet Cutter



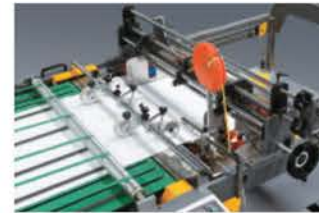
ROYO MACHINERY



RCM

1100A  
1400A  
1700A  
1900A

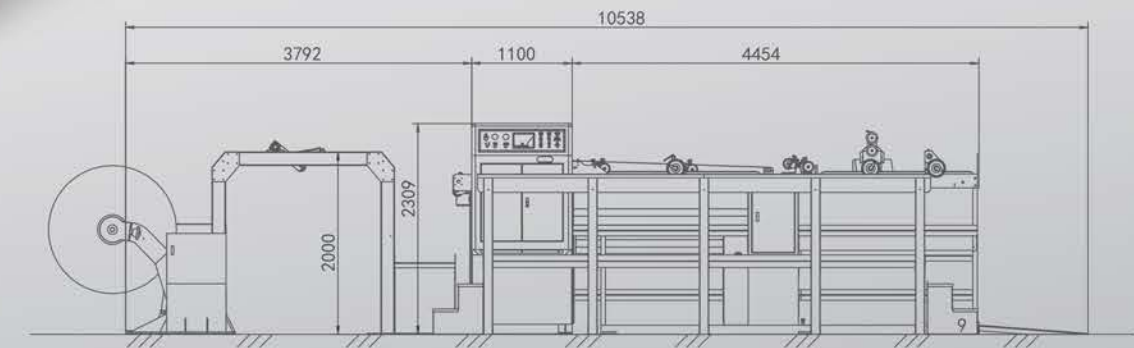
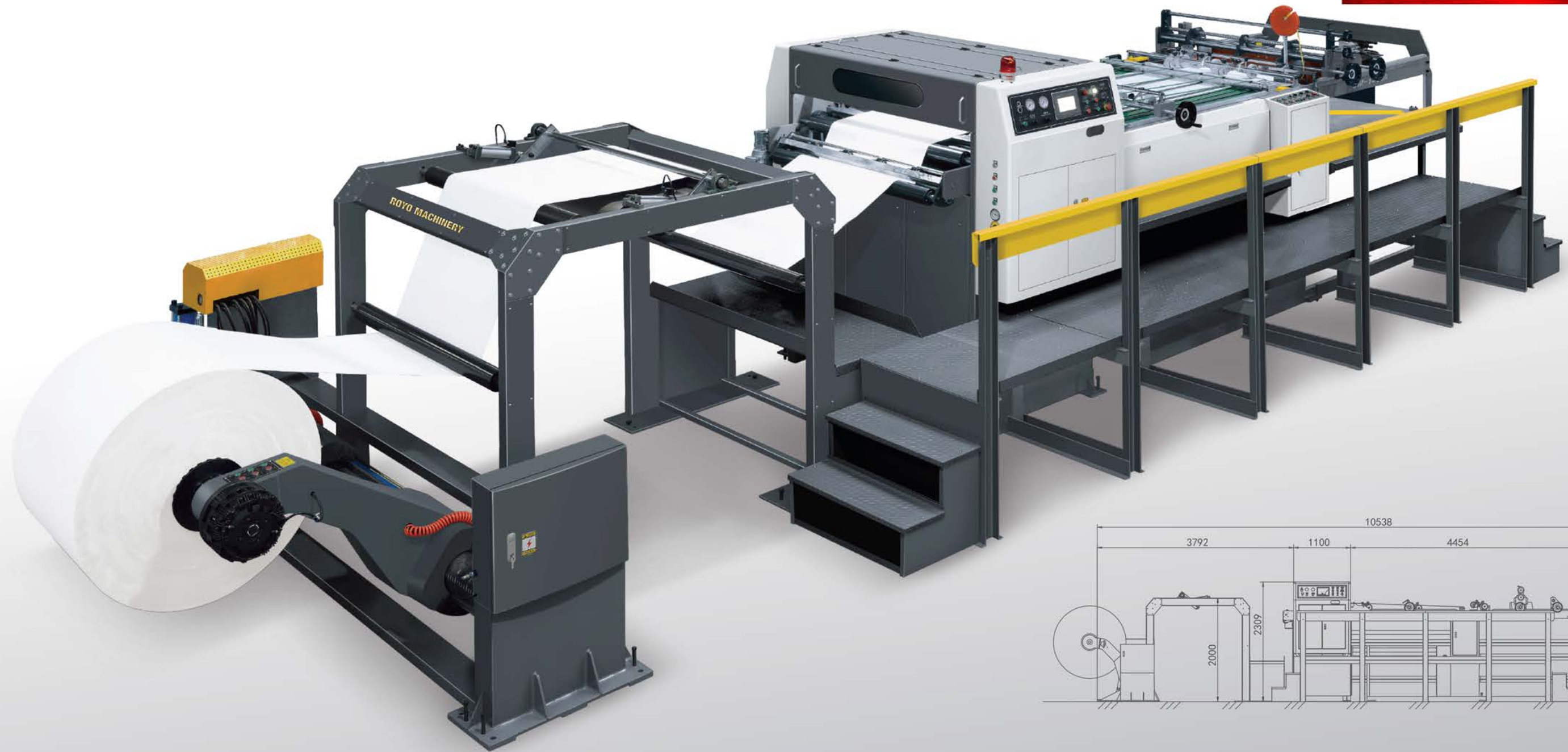
Servo Precision High Speed Sheet Cutter

**ROYO MACHINERY**Paper rack stand and brake  
equipmentAutomatic anti-curve  
equipment

Automatic stacker



CM-1100/1400/1700/1900A Servo Precision Sheet Cutter apply the advanced technique of Germany and England. The computer control system apply AC servo motor and AC transducer. The conveyer belt apply NITTA from Japan. The pneumatic vibrator apply FINOLEVA from Switzerland. The electrical system adopts MOELLER&OMRON, the speed of cutting paper is fast and stable. Germany precise bearing and cutting knife assure the high cutting precision. The touch screen makes the operation easy. The anticurve rack assures the paper flat. The machine is very popular in the paper making and printing industry.





RCM

1100A  
1400A  
1700A  
1900A

Servo Precision High Speed Sheet Cutter

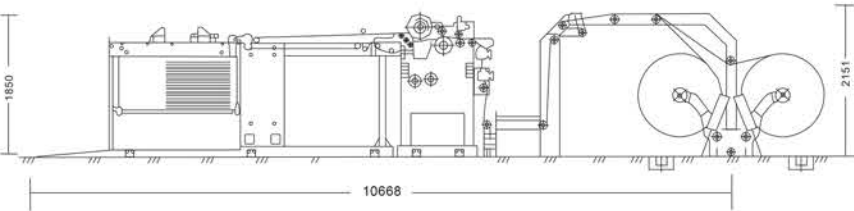


Main technical parameter	
Model	CM-1100/1400/1700/1900A
Model of cutting paper	The up knife cut reciprocally and the down knife is fixed
Thickness of cutting paper	60-550g
Max. scroll diameter	1500mm(CM-1100A)/1800mm(CM-1400/1700/1900A)
Max. paper cutting width	1100mm/1400mm/1700mm/1900mm
Cutting length range	450-1450mm(CM-1100A) / 450-1650mm(CM-1400/1700/1900A)
Cutting precision	Cutting length≤ 1000mm : +/-0.5mm Cutting length>1000mm : +/-0.1%
Max. cutting speed	300cuts/min
Max. cutting meter speed	300m/min
Max. paper piling height	1300mm(CM-1100A)/1500mm(CM-1400/1700/1900A)
The request for air compressor	0.8Mpa
Power consumption	380V/220V × 50Hz
Gross weight	9000kgs/11000kgs/13000kgs/15000kgs
Full-load Power	22/26/30/35kw

Main technical performance	
High-precision single knife cutting machine	1SET
Paper prismatic automatic adjustment system	1SET
Paper transporting equipment	1SET
Automatic paper trimming and collecting machine	1SET
Electrical controlling system	1SET
Driving motor system	1SET
Accessory by machine	1SET
Cone sheftless mill roll stand	1SET
Paper tension controller	1SET
Operation system:LCD panel by operator	1SET
Main drive system:AC servo motor	1SET



Hob sheet cutting machine (two reel)



- 1 Paper feeding unit
- 2 Electric appliance unit
- 3 Overlapping unit
  - Single sheet outlet can be adjusted by the overlapping unit
  - The number of overlapping sheet can be adjusted by the overapping unit





# ROYO MACHINERY



Three sets of slitting knife are used for trimming and middle slitting



Cutting knife unit

Main technical parameter	
Model	GM-1100/1400/1700/1900
Model of cutting paper	The up knife cut reciprocally and the down knife is fixed
Thickness of cutting paper	60~550g
Max. scroll diameter	1500mm(GM-1100)/1800mm(GM-1400/1700/1900)
Max. paper cutting width	1100mm/1400mm/1700mm/1900mm
Cutting length range	450~1450mm(GM-1100)/450~1600mm(GM-1400/1700/1900)
The format of slitting	2 sheet
Cutting precision	Cutting length≤1000mm : +/-0.5mm Cutting length>1000mm : +/-0.1%
Max. cutting speed	350cuts/min
Max. cutting meter speed	350m/min
Max. paper piling height	1300mm(GM-1100)/1500mm(GM-1400/1700/1900)
The request for air compressor	0.8Mpa
Power consumption	380V/220V × 50Hz
Gross weight	11000kgs/13000kgs/15000kgs/17000kgs
Full-load Power	22/26/30/35kw



Overlapping unit



Electric appliance unit

Main technical performance	
High-precision single knife cutting machine	1SET
Paper prismatic automatic adjustment system	1SET
Equipment of electrostatic elimination	1SET
Middle slitting and waste collection system	1SET
Automatic counting and label inserting equipment	1SET
Paper transporting equipment	1SET
Automatic paper trimming and collecting machine	1SET
Electrical controlling system	1SET
Driving motor system	1SET
Accessory by machine	1SET
Double arm oil pressure shaftless mill roll stand	1SET
Automatic directing and paper tension controller	1SET
Equipment of automatic vacuum	1SET
Operation system:LCD panel by operator	1SET
Main drive system:AC servo motor	1SET

Our company reserves the right to change technical parameter without futher notice.



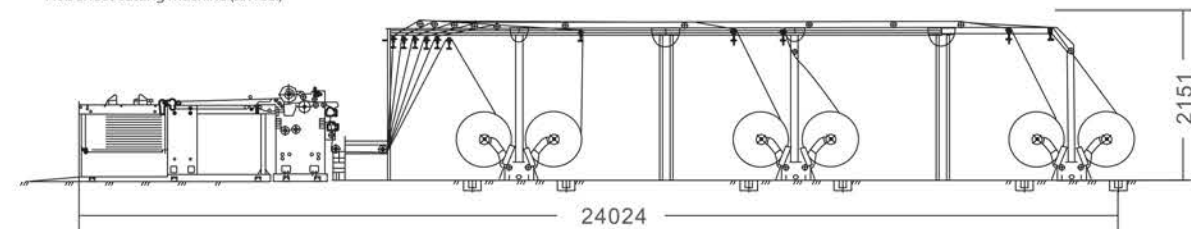


**RGM** 1100 1400 1700 1900 Servo Precision High Speed Sheet Cutter

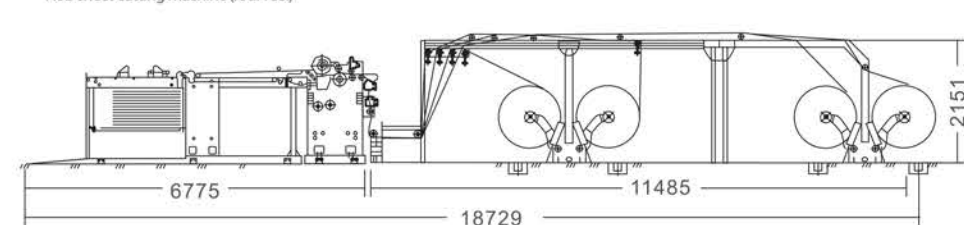


GM-1100/1400/1700/1900 Servo Precision High Speed Sheet Cutter apply the advanced technique of Germany and England. The machine computer control system apply servo motor and AC transducer which are both international of top brand. The conveyer belt apply NITTA from Japan. The pneumatic vibrator apply FINDEVA from Switzerland. The electrical system adopts MOELLER&OMRON. The speed of cutting paper is so fast and stable. Germany precise bearing and cutting knife assure the high cutting precision. The touchscreen makes the operation easy. The anti-curve rack assure the paper flat. This machine is the paper processing machine which is very popular in the paper making and printing industry. It can improve the efficiency and benefit of your work.

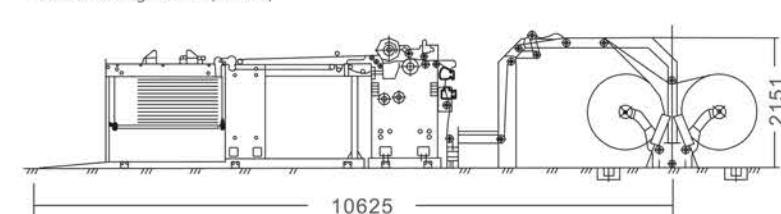
Hob sheet cutting machine (six reel)



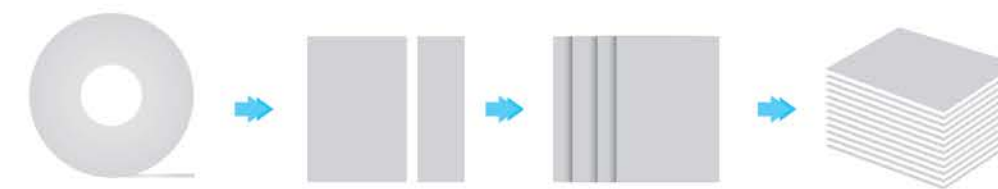
Hob sheet cutting machine (four reel)



Hob sheet cutting machine (two reel)



**ROYO MACHINERY**

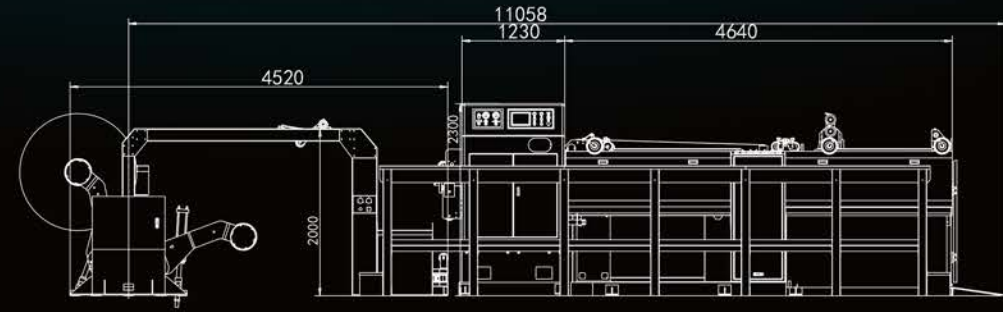
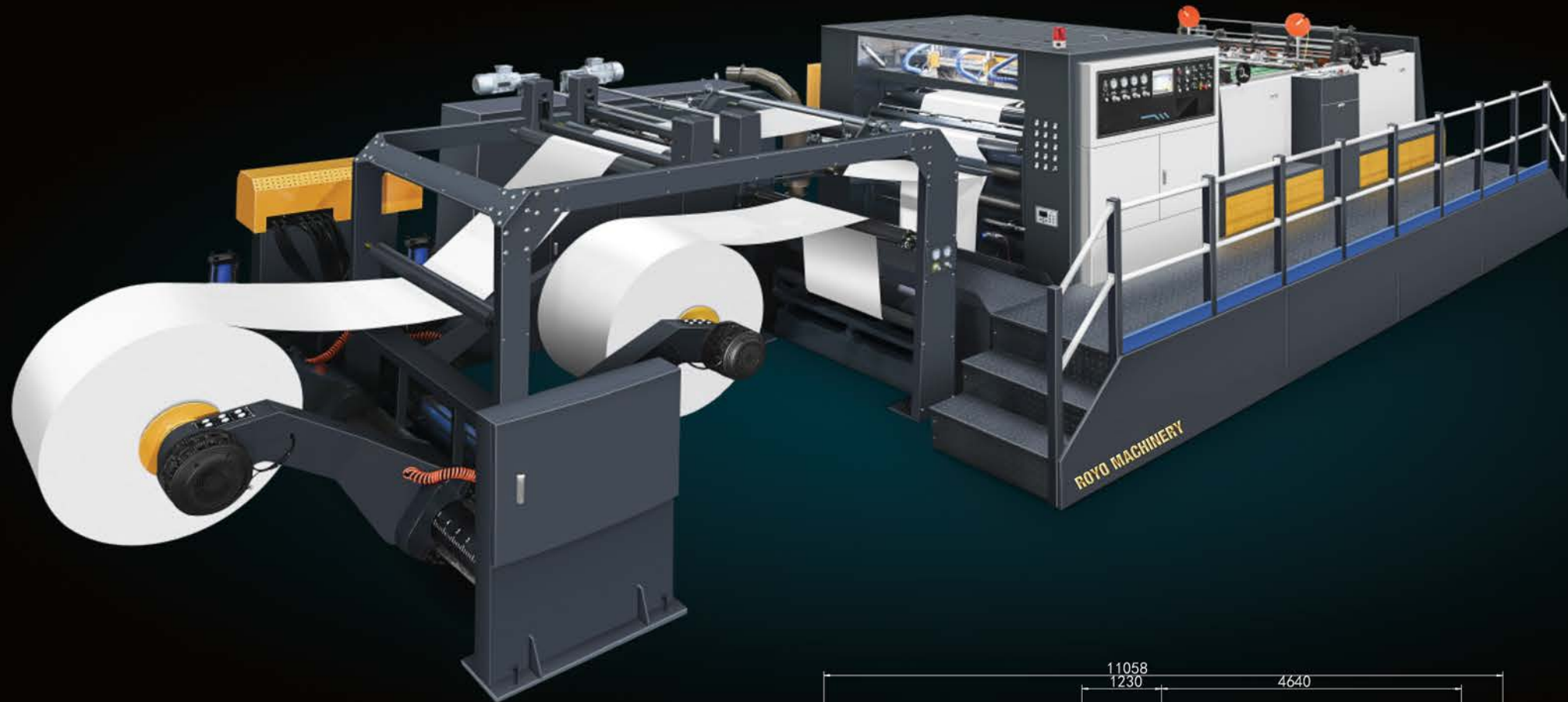




RSM

1100  
1500  
1700  
1900

Servo Precision Double-Helix High Speed  
Sheet Cutter Machine



Three sets of slitting knife are used for trimming and middle slitting.



Conveying unit

SM-1100/1500/1700/1900 Servo Precision Double-Helix High Speed Sheet Cutter Machine apply the advanced technique of Germany and Italy, combining with the rich experience and leading manufacturing techniques of our senior engineers to build and launch a new generation of sheet cutter equipment. This machine adopts double-helix design, the edge of cutting paper is smooth without crude or powder, what's more, with the feature of high cutting precision makes sure paper after cutting can be directly used on printing machines, which help to reduces the production cost and improve production efficiency. It is the most popular and ideal cutting machine in paper making and printing industry at present.

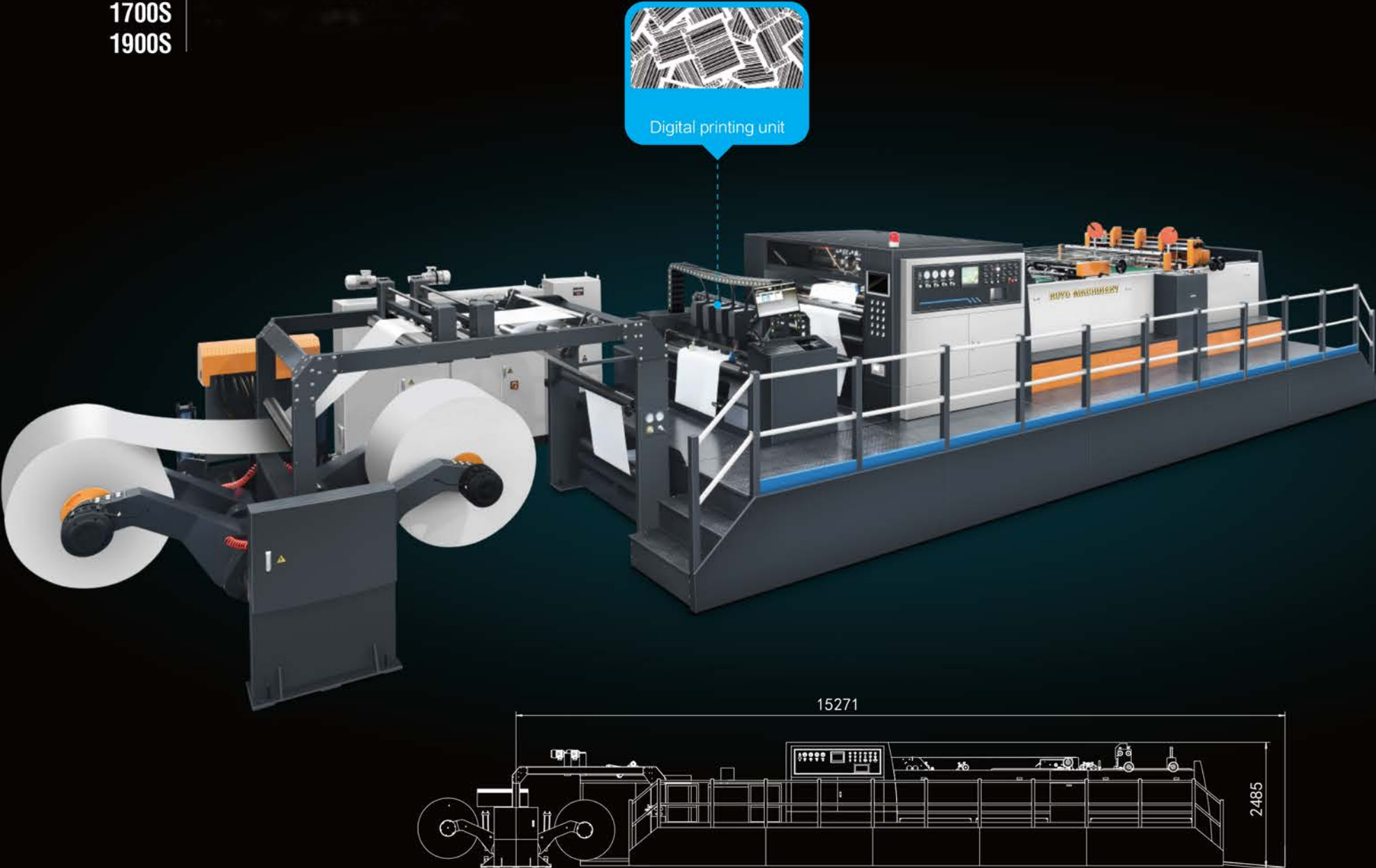
Main technical parameter				
Model	SM-1100/1500/1700/1900	Cutting Length	Speed	Speed
Model of cutting paper	Double rotary sheeter	450	100	210
Thickness of cutting paper	100-1000gsm	500	110	220
Cutting length range	450-1450mm(SM-1100)/450-1600mm(SM-1500/1700/1900)	600	155	260
Cutting precision	Cutting length ≤ 1000mm: ± 0.2mm	700	230	320
	Cutting length > 1000mm: ± 0.1%	800	300	380
Max. cutting meter speed	300 m/min	900	300	345
Max. scroll diameter	1500mm(SM-1100)/1800mm(SM-1500/1700/1900)	1000	300	300
Max. paper cutting width	1100(45" )mm	1100	290	265
	1500(59" )mm	1200	280	235
	1700(67" )mm	1300	260	210
	1900(75" )mm	1400	260	190
Max. paper piling height	1300mm(SM-1100)/1500mm(SM-1500/1700/1900)	1500	260	175
The request for air compressor	0.8Mpa	1600	250	160
Power consumption	380V/220V X 50Hz			
G.W.	12000/16000/18000/20000kgs			
Full-load Power	69/82/90/100kw			



RSMC

1100S  
1500S  
1700S  
1900S

Digital Printing Servo Precision  
Double Helix Sheet Cutter Machine



Digital ink-jet printing is a printing type of non-contact, non pressure, non plate printing. All digital information can be printed by inputting the digital ink-jet printer through the interface. The traditional ink-jet printing is printing first, then ink-jet printing, which is low efficiency and large loss in paper. At present,the Digital Ink-jet Double-helix High Speed Sheet Cutter Machine developed by our company is to print QR code, bar code and digital pattern on the jumbo roll first through digital ink-jet,then cut the jumbo roll into single sheets, realizing intelligent and efficient detection, enabling digital ink-jet printing and slitting to be completed at one time, greatly reducing paper loss.



Photoelectric tracking system



Digital printing unit

Main technical parameter	
Model	SMC-1100/1500/1700/1900
Model of cutting paper	Double rotary sheeter
Thickness of cutting paper	100-1000gsm
Cutting length range	450-1650mm(SMC-1100/1500/1700/1900)
Cutting precision	Cutting length ≤ 1000mm: ± 0.1mm Cutting length > 1000mm: ± 0.1%
Max. cutting meter speed	300 m/min
Max. digit printing speed	150 m/min
Max. scroll diameter	1500mm(SMC-1100)/1800mm(SMC-1500/1700/1900)
Max. paper cutting width	1100(45" )mm 1500(59" )mm 1700(67" )mm 1900(75" )mm
Max. paper piling height	1300mm(SMC-1100)/1500mm(SMC-1500/1700/1900)
The request for air compressor	0.8Mpa
Power consumption	380V/220V X 50Hz
G.W.	15000/20000/23000/25000kgs
Full-load Power	69/82/90/100kw

Cutting Length(mm)	Speed ( m/min )	Speed ( cuts/min )
450	100	210
500	110	220
600	155	260
700	230	320
800	300	380
900	300	345
1000	300	300
1100	290	265
1200	280	235
1300	260	210
1400	260	190
1500	260	175
1600	250	160

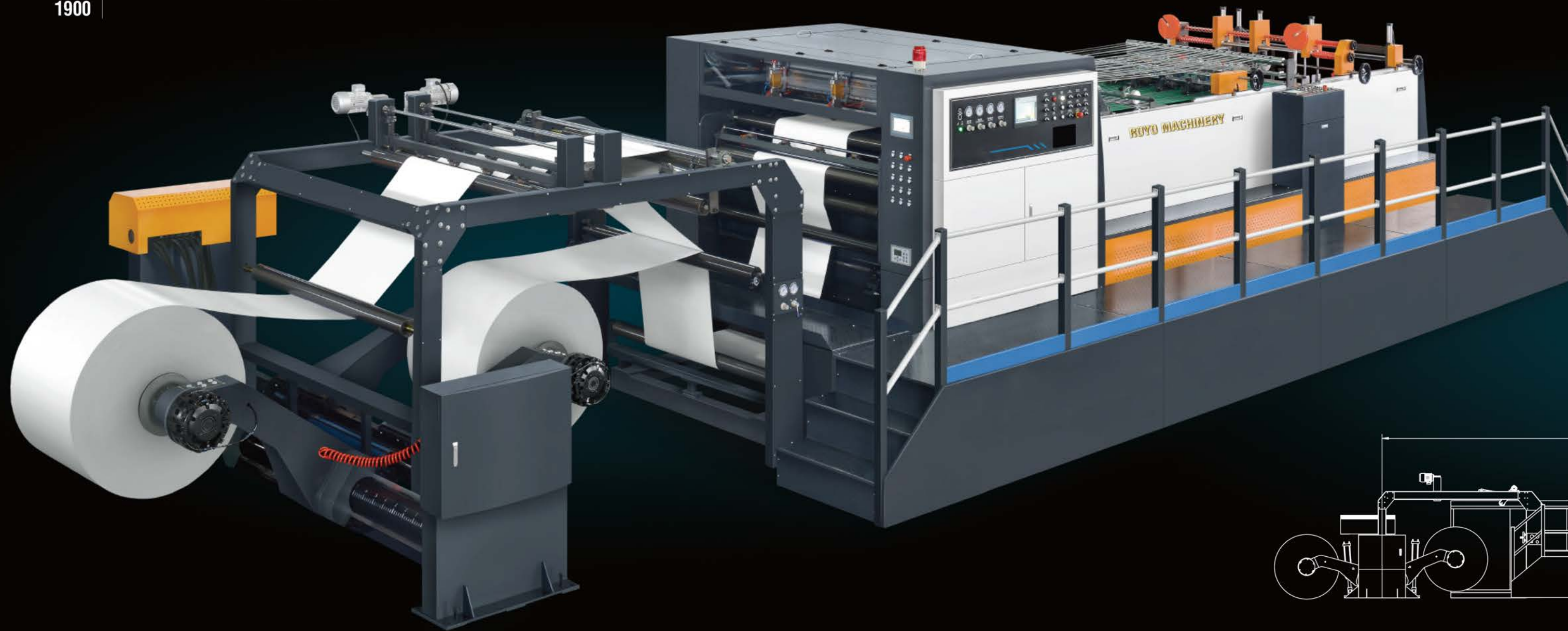


RSMC

1100  
1500  
1700  
1900

Servo Precision Double-Helix High Speed  
Sheet Cutter Machine

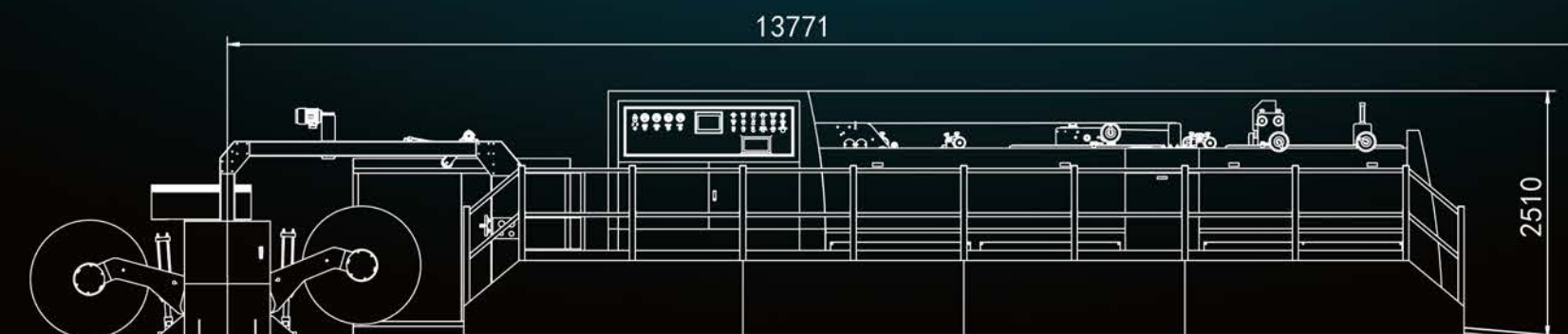
ROYO MACHINERY



Based on the technology of SM series Servo precision Double-helix High Speed Sheet Cutter Machine, SMC series equipped with more intelligent function and better technological innovation.



Auto positioning slitting system  
Paper pre-press device  
3 times delivery device(no impression line)  
Collecting board pneumatic lifting device





RSMC

1100ZH  
1500ZH  
1700ZH  
1900ZH

Servo Precision Double Helix High Speed Sheet Cutter  
Machine With Auto Splicer&Auto Pallet Changer

ROYO MACHINERY

## Drawing



AUTO BRAKE



AUTO ANTI CURVE



AUTO TENSION CONTROL



AUTO EDGE POSITION CORRECTION



AUTO POSITIONING SLITTING SYSTEM (OPTIONAL)



PAPER PRE-PRESS DEVICE



DOUBLE HELIX KNIFE



REJECT GATE



ANTI-STATIC DEVICE



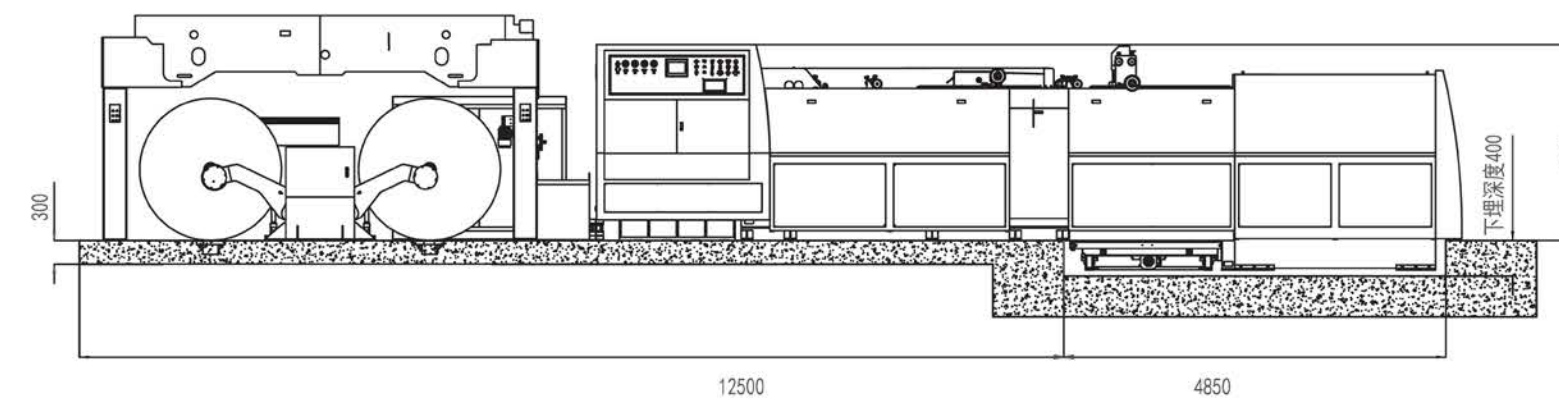
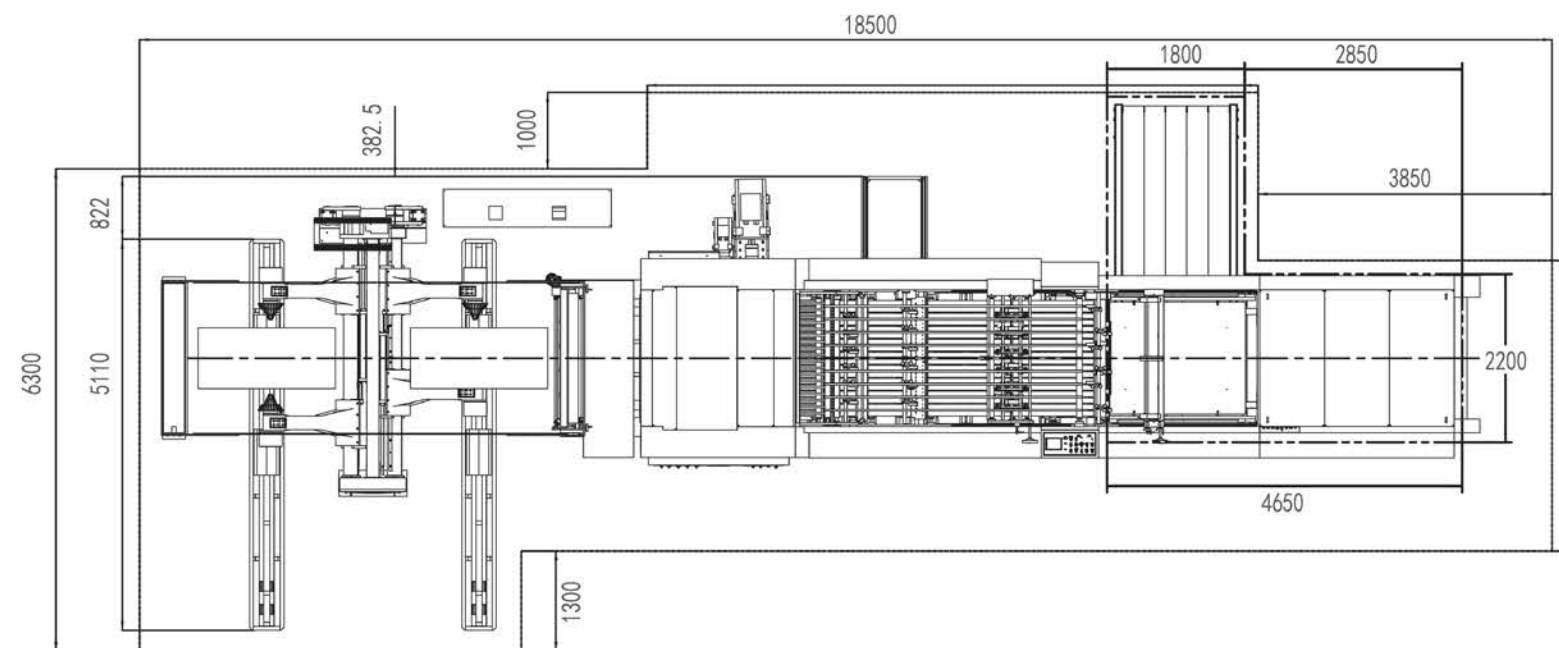
3 TIMES DELIVERY(NO IMPRESSION LINE)



COLLECTING BOARD PNEUMATIC LIFTING DEVICE



SIEMENS PLC SYSTEM



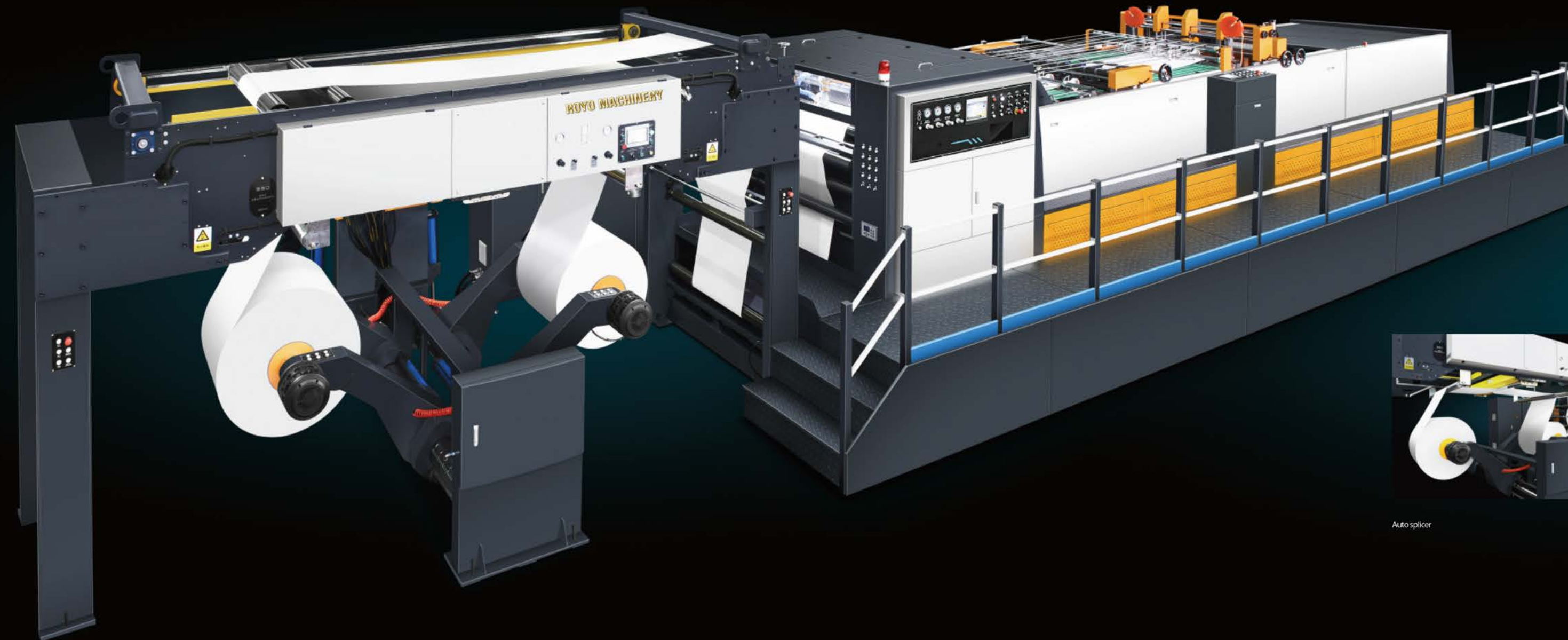


RSMC

1100ZH  
1500ZH  
1700ZH  
1900ZH

Servo Precision Double Helix High Speed Sheet Cutter  
Machine With Auto Splicer&Auto Pallet Changer

ROYO MACHINERY



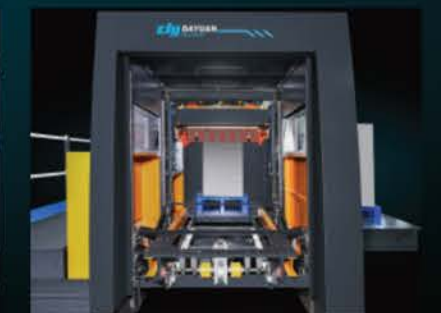
Based on SMC series Servo precision Double-helix High Speed Sheet Cutter Machine, this machine equipped with automatic splicer and pallet changer, which enable it realizing fully automatic operation, and embodied the intelligent and efficient technical characteristics of the machine.



Auto splicer



Auto pallet changer



Auto pallet changer