

Notes: We will not give another advice if we have corrected the specifications of the products or improved the mechanisms.



Professional Supplier for
Paperboard and Carton Machine

PRIME MECHANICAL WORKS PVT LTD

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PRIME Mechanical Works Pvt Ltd



Company Profile

PRIME Mechanical Works Pvt Ltd is specialized in importing and exporting of corrugated board production line, box converter and finishing machinery, paper machinery and paper converting machinery, paper bag making machinery, rigid box making machinery and offset machinery as well as related spare parts.

With our rich experience for over a decade and with our professional engineers and sales team, we focus on providing complete solutions for the paper making, corrugated board, box making, industry board making and paper tube making industries and offset printing industry.

We try our best to provide machineries that are of high quality, energy efficient, easy to operate and that are according to your desired market requirements. So that your business could strive further. That's why we use our slogan proudly "Customer first, Quality first".

PRIME MACHINES

HONESTY

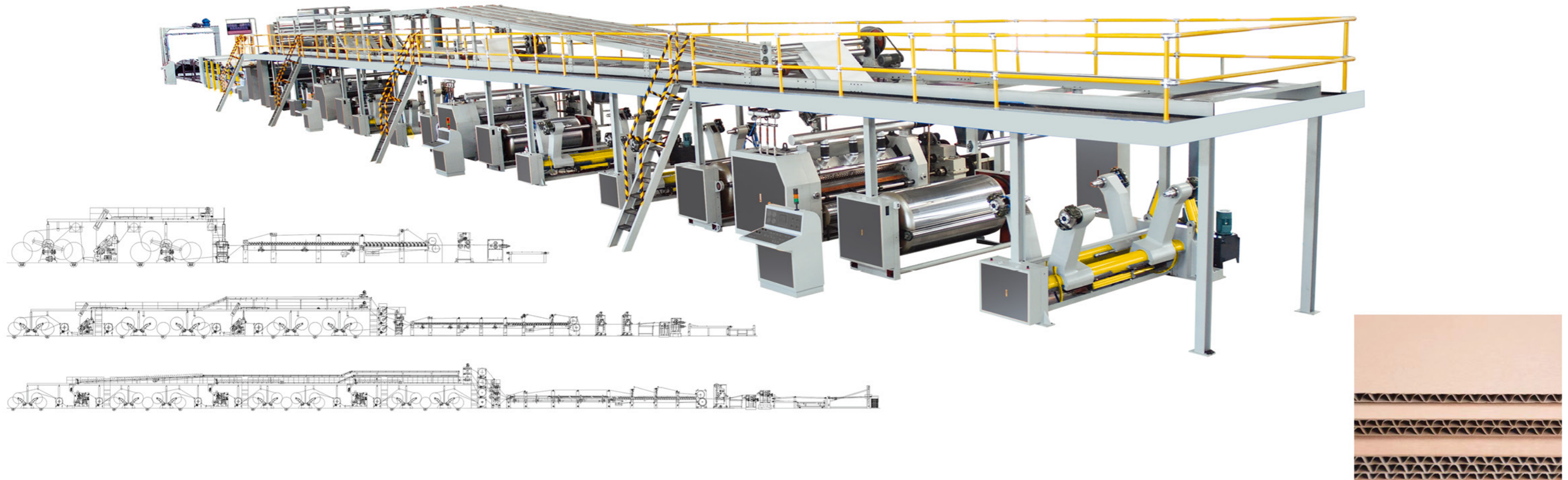
REALISTIC

EXPLORATION

INNOVATION



PMW-Series 3/5/7 layer corrugated cardboard production line



Purpose and characteristics:

Corrugated Cardboard Production Line is the professional equipment for producing corrugated cardboard. The 3ply, 5ply, 7ply and multi-function corrugated cardboard production line mainly consist of the following equipment: Mill Roll Stand, surface paper (core-paper) pre-heater, single facer, Conveying Bridge, Glue Application Machine, Double Facer, Slitter Scorer, Cut-off, Conveyer and Stacker, Heating System, Air compression system and Glue Making System, etc.

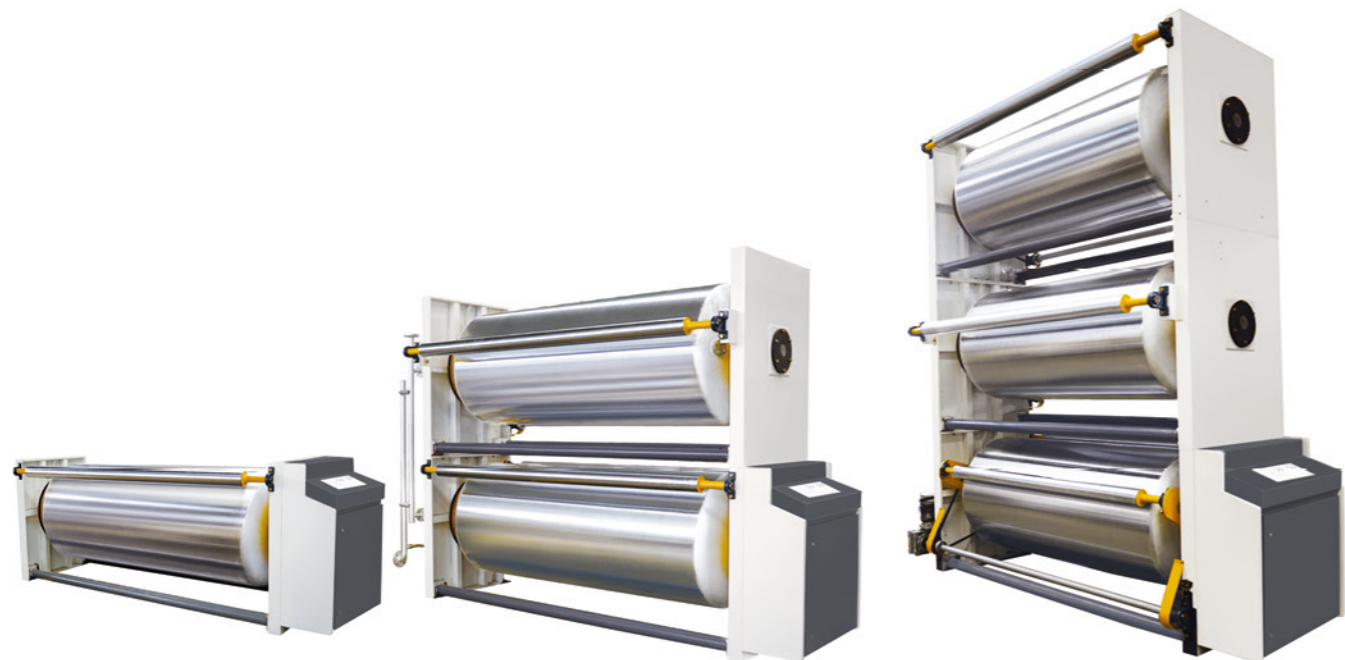
The 3ply, 5ply, 7ply, and multi-function corrugated cardboard production line has high middle and low grade with different-specification and different-quality equipment. On the base of understanding the requirements of the customers and the advanced skills at home and abroad, our company has developed and designed these production lines with the speed 100-350m/min; the paper width 1400-3500mm and four fluting UV type A, C, B, E for all the customers to choose from.



PMW-Electric mill roll stand PMW-Hydraulic mill roll stand



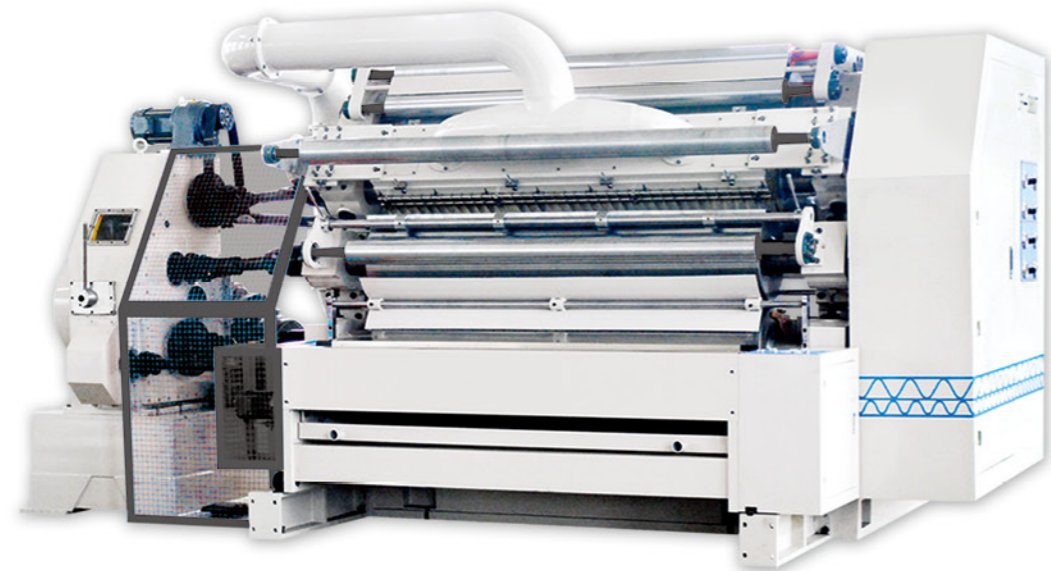
PMW-Preheater



(Mill roll stand) Configuration name		Description
Technical parameters	Max.diameter of reel paper	Max. Φ 1500mm
	One side loading	Max.1500kg
Electric mill roll stand	Arm control motor(clamp)	0.37kw
	Arm control motor(swing)	1.5kw
	Wallboard and arm	iron cast
	Full motorized control	Paper lift-lower, clamp, loosen, movement, contraposition
	Tension control	Pneumatic brake, manual control
	Hydraulic mill roll stand	One side loading
Hydraulic mill roll stand	Hydraulic station motor power	4.0kw (continuous working)
	Wallboard and arm	Iron cast
	Hydraulic controlling	Paper lifting and lowering, clamping and releasing, right-left movement.
	Brake style	Double point or multi-point type.
	Over paper roller	Φ 219mm(1600mm) Φ 245mm(1800mm) Φ 270mm(2200mm)
Main outer structure, raw material, and origin	1) Sides wallboard and arms: HT200 casting, origin: HEBEI 2) Main girder link U- s teel origin: Anshan Iron and Steel Company 3) Bearing: origin: HANGZHOU,(HAERBIN, WAFANGDIAN, LUOYANG FOR CHOICE) 4) Electric equipment: origin: ZHEJIANG, CHINT 5) Pneumatic device: origin: SHANDONG	

(Pre-heater) Configuration name		Description
Technical parameters	Effective width	1400-3500mm
	Diameter of preheat roller	Φ 600mm Φ 900mm Φ 1000mm
	Angle adjustment range	360° rotation
	Angle shaft diameter	Φ 87mm × 2
	Steam temperature	150-180℃
	Steam pressure	0.8-1.3Mpa
	Motor power	0.37kw
	Rotary type	Autorotation or Passive rotation
Raw materials and origin	Steam rotation joint: LUGUAN QIU Preheater: HANGANG or JIGANG Bearing: HANGZHOU,(HAERBIN, WAFANGDIAN, LUOYANG FOR CHOICE) Contacts: CHINT	

PMW-270/280/320/360/380 Fingerless type single facer



Main specifications:

Configuration name	280mm	320/360mm	380mm	Remarks
Working width	1400mm-3500mm			
Heating type	Steam / electric / oil			
Corrugated roller material	48CrMo alloy steel / 52CrMo alloy steel			
Wallboard type	Oblique / square			
Transmission type	Gear box / chain			
Feeding type	Fingerless / finger			
Design speed	100m/min	150m/min	200m/min	
Pneumatic working pressure	0.4-0.9Mpa			
Upper corrugated roller diameter	Φ280mm	Φ320mm	Φ350mm	
Lower corrugated roller diameter	Φ280mm	Φ320mm	Φ380mm	
Pressure roller diameter	Φ280mm	Φ320mm	Φ385mm	
Glue roller diameter	Φ242mm	Φ242mm	Φ268mm	
Paste fixed roller diameter	Φ127mm	Φ127mm	Φ140mm	
Preheat roller diameter	Φ402mm	Φ402mm	Φ402mm	
Main driving motor	11kw	15kw	30kw	
Wind suction motor	11kw	11kw	11kw	
Control type	VFD (inverter control, SHENZHEN YINENG)			
Bearing	Chinese famous brand WAFANGDIAN			
Main electric parts	CHINT			

PMW-Gluing machine



PMW-Over bridge



Configuration name		100m/min	>100m/min
Technical Parameters	Temperature range of the pre-heater	>200°C	
	Steam pressure	0.8—1.2Mpa	
	Air source system	0.4—0.7Mpa	
Roller diameter parameters	Glue roller	Φ216mm	Φ240mm
	Fixed paste roller	Φ114mm	Φ114mm
	Lower preheat roller	Φ300mm	Φ402mm
	Upper preheat roller	Φ300mm	Φ402mm
	Over paper roller	Φ89mm	Φ89mm
Power motors	Glue roller initiative frequency motor	3kw	
	Glue pump motor	2.2kw	

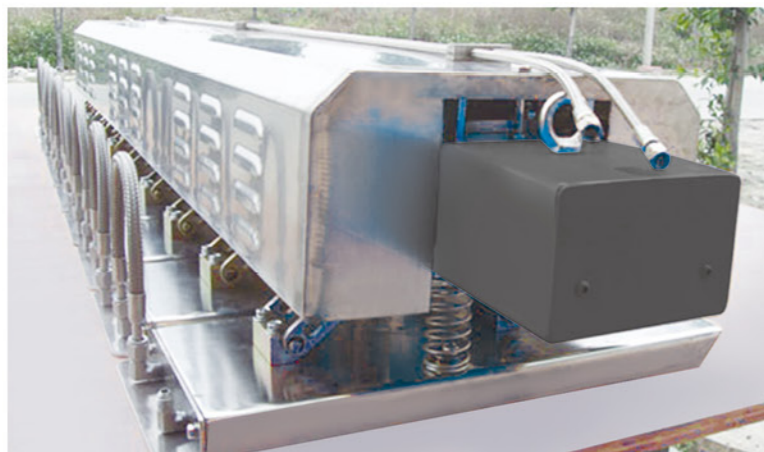
Mainly purchased parts, raw materials and origin

Name of main parts	Brands or place of origin	Name of main parts	Brands or place of origin
Glue roller and fixed paste roller	Tiangang (45Quenching steel)	Preheat roller	Tiangang or Jigang (Q235B container board)
Bearing	HRB,ZWZ,LYC	Touch screen	Local brand (Taiwan WEINVIEW or MCGS for choice)
Contacts, Air switch	CHINT	PLC and frequency machine	Local brand (Taiwan delta for choice)
Lose glue dispensing pumps	Hebei YANDONG	Traps	Beijing

PMW-Double facer(heavy type)



Contact Bar



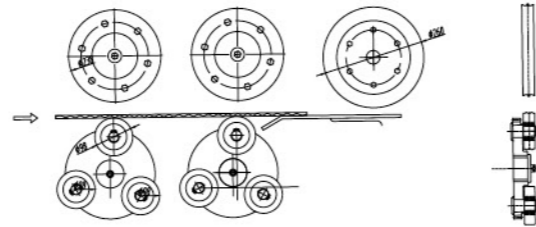
Working width	1400mm-3500mm
Upper driving roller	500mm,840mm for choice
Down driving roller	500mm,630mm for choice
Wallboard of main drive part	200mm
Wallboard of main body	300mm
Hotplate	595mm(width)*30mm(thickness) 9pcs-22pcs for choice
Felt	Cotton felt or needled felt from shenyang for choice
Rotary joint	Luguanqiu
Bearing	Ha,Wa,Luo for choice
Electric appliance	Chint (Siemens ,Schneider for choice)
Motor	Hengshui or other famous brand for choice
Frequency converter	Shenzhen or Delta for choice

Thermal bar

Application	It is used for replacing press roller and improving board quality.
Width	1400-3500mm
Suitable speed	≤250mpm
Pressure	2-6Kpa
Working life	More than 20years



PMW-NC Slitter scorer



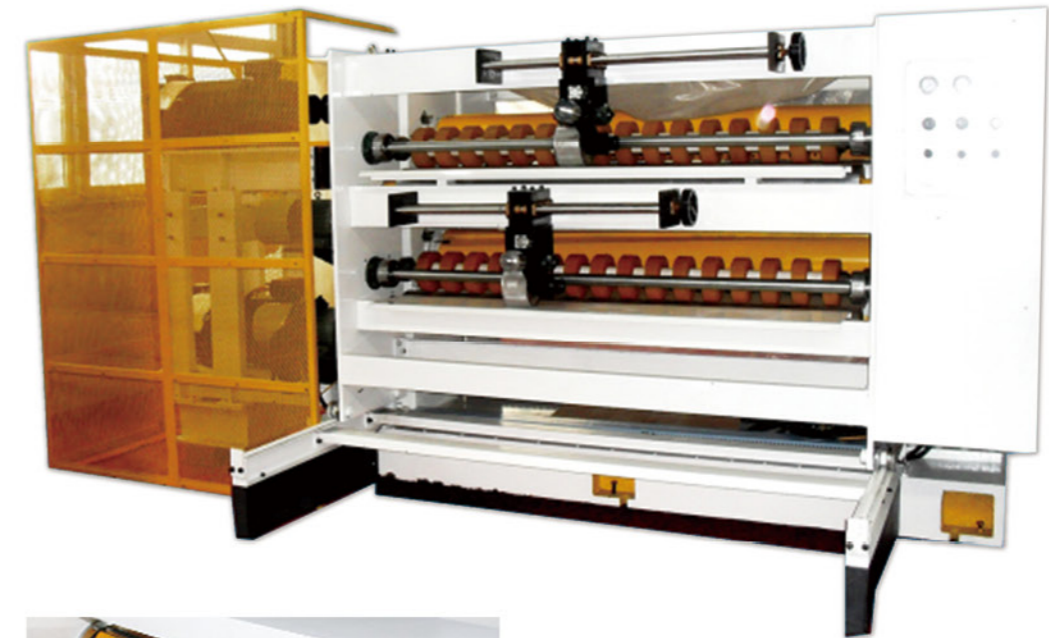
**PMW-Lift-down type
slitter scorer**



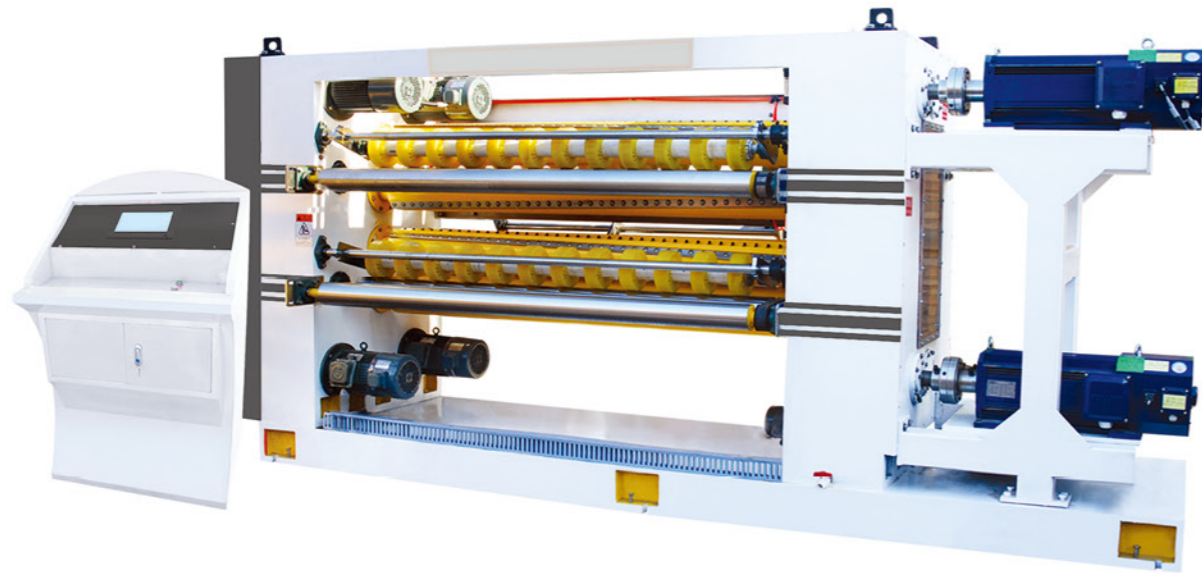
**PMW-Manual/Electric
adjust blade type slitter
scorer**



PMW-High speed single / double layer spiral knife cutoff

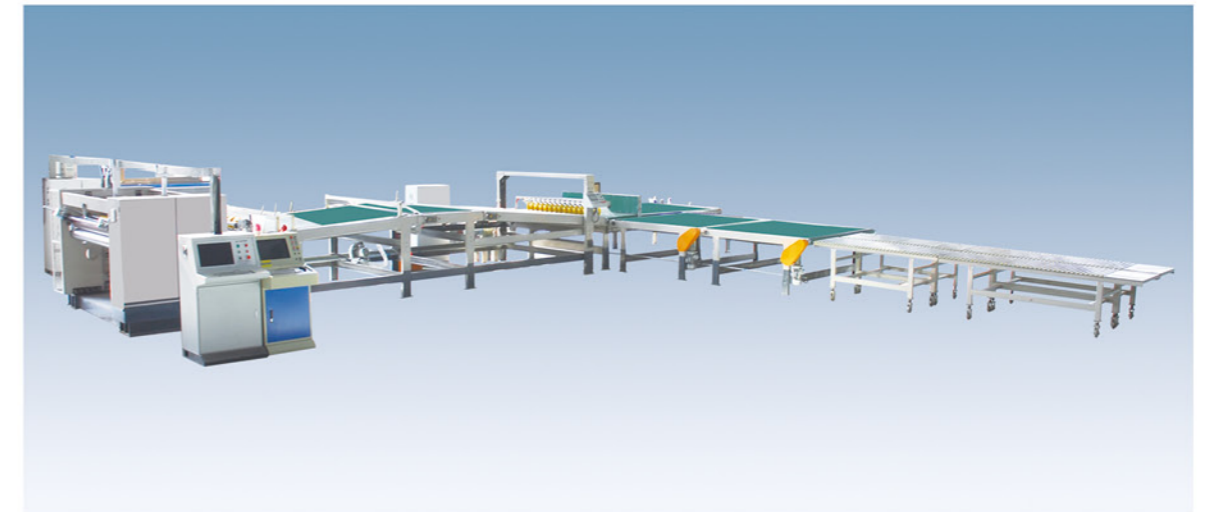
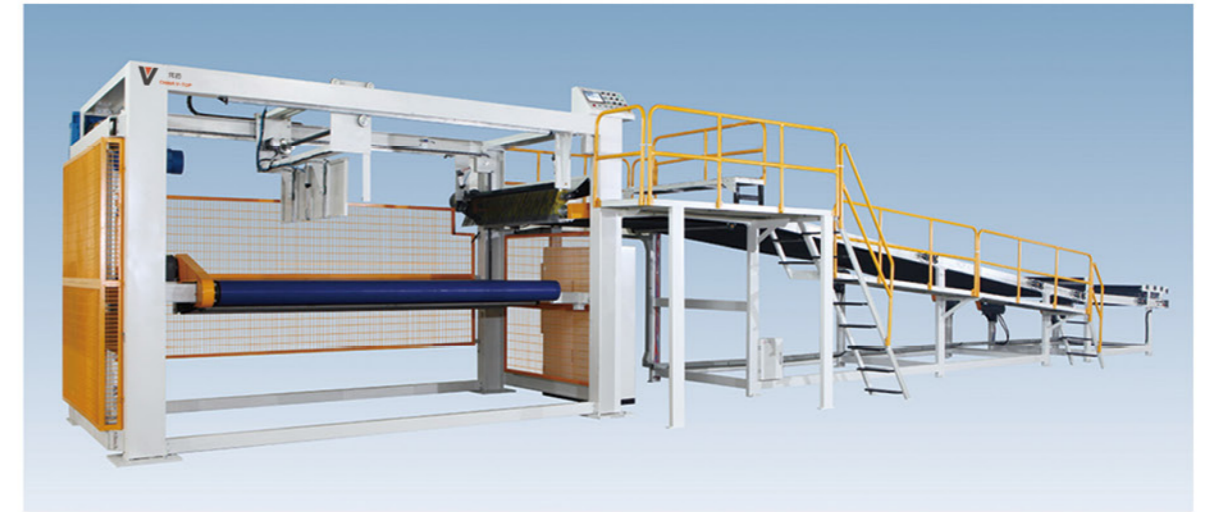


PMW-NC cutoff



Item	Single layer	Double layer		
Blade type	Straight blade	Spiral blade		
Effective width	1400mm-3500mm			
Design speed	100m/min	100m-350m/min		
Cutting length	400mm-9900mm			
Cutting precision	± 1mm			
Dia of knife shaft	200mm	198mm		
Wallboard thickness	30mm	35-50mm for choice		
Motor power	Main motor: 11kw Assistant motor: 2.2kw	11kw-30kw for choice		
Motor type	Frequency motor	Servo motor		
Servo controller	KEB from Germany, 15kw	KEB from Germany, 15-42kw for choice		
Encoder	Ruipu, Jiangsu			
Touch screen	MCGS		Weinview	
Electric apparatus	Chint	Delta	Schneider	Siemens
Price				

PMW-Automatic / Semi-auto stacker



PMW-Automatic high speed printing slotting and die-cutting machine



Technical parameter

Name of parameter		PMW-900	PMW-1200	PMW-1400
Printing roller dia		300mm	408mm	480mm
control mode		PLC / Touch screen / button		
Color group		Everything can be quipped according to users' needs		
Printing paper		A,B,C,A/B,B/C,A/B/C		
Production speed		120/150/200		
Max.paper sizes		900 × 1800/2000/2200/2400/2600mm	1200 × 1800/2000/2200/2400/2600mm	1400 × 1800/2000/2200/2400/2600mm
Min.paper sizes	Positive knife	300 × 640mm	350 × 720mm	400 × 720mm
	Negative knife	300 × 720mm	350 × 740mm	400 × 740mm
Max.printing sizes		900 × 1600/1800/2000/2200/2400mm	1200 × 1600/1800/2000/2200/2400mm	1400 × 1600/1800/2000/2200/2400mm
Max.die-cutting size		900 × 1700/1900/2100/2300/2500mm	1200 × 1700/1900/2100/2300/2500mm	1400 × 1700/1900/2100/2300/2500mm
Max.printing plate thickness		7.2mm		
Slot width × Max.depth		7mm × 220mm	7mm × 300mm	7mm × 350mm
Min.slot space	Positive knife	150 × 150 × 150 × 150mm	170 × 170 × 170 × 170mm	170 × 170 × 170 × 170mm
	Negative knife	250 × 90 × 250 × 90mm	260 × 90 × 260 × 90mm	260 × 90 × 260 × 90mm

Motor list

Name		Size
Feeding unit	Main motor Yongshun,Hengshui,Hebei	1.5kw (Frequency)
	Separation and reunion of the machine	1.5kw 1/60 (Gear reduce speed)
	Left and right baffle plate Kefeng,Hengshui,Hebei	0.2kw RV-30
	Suction motor Jingtaida,Baoding,Hebei	7.5kw
Printing unit	Dust exhausting fan Xinzhi,Shanghai	1.5kw
	Phase adjustment Taibang,Taiwan	0.2kw RV-30(Frequency)
Slotting unit	Anilox roller / Ceramic roller	0.4kw 1/30 (Gear reduce speed)
	Phase adjustment Taibang,Taiwan	0.2kw RV-30
Die-cutting unit	Knife seat horizontal movement (by maunal / by electrical) Kefeng,Hengshui,Hebei	0.37kw RV-50 1/80
	Phase adjustment Taibang,Taiwan	0.2kw RV-30
	Left and right tensile Kefeng,Hengshui,Hebei	0.18kw RV-50 1/80
Stacking unit	Repair of rubber roller Kefeng,Hengshui,Hebei	0.37kw RV-40-50 1/900
	Conveying belt Yongshui,Hengshui,Hebei	3.0kw (Electromagnetic controlling speed)
	Lift of stack table Yongshun,Hengshui,Hebei	2.2kw RV-135 1/80

PMW-Semi-auto flexo printing slotting die-cutting machine



Technical parameter

Model number	Feeding size (m ²)	Printing size(m ²)	Working speed (piece/min)	Board thickness (mm)	Main power (kw)	Roller diameter(mm)
RN-2000	1800 × 900	1600 × 900	0-100	11	5.5	300
RN-2200	2000 × 900	1800 × 900	0-100	11	5.5	300
RN-2400	2200 × 1250	2000 × 1250	0-100	11	7.5	408
RN-2600	2400 × 1250	2200 × 1250	0-100	11	7.5	408
RN-2600	2600 × 1470	2200 × 1470	0-90	11	7.5	480
RN-2800	2600 × 1470	2400 × 1470	0-90	11	7.5	480
RN-2800	2600 × 1600	2400 × 1600	0-80	11	11	530
RN-3000	2800 × 1600	2600 × 1600	0-80	11	11	530

Mainly parts, raw materials and origin:

Name of main parts	Brands or place of origin	Name of main parts	Brands or place of origin
Bearing	Harbin, Wafangdian, Luoyang for choice	Button and switch	Hangzhou Sanli (Siemens,Germany for choice)
Touch screen	Kunlun Tongtai (Taiwan WEINVIEW or MCGS for choice)	Intermediate relay	CHINT (Omron,Japan for choice)
PLC	Delta,Taiwan	Pneumatic diaphragm pump	Changjiang ,Wuhan
Frequency inverter	Guangzhou Sanjing	Cylinder stator	Delixi
Connector,thermal relay	Shanghai,Xinai (Siemens,Germany for choice)	Rubber roller	Shenyang (Chaonai,Taiwan for choice)
Phase meter	Local brand	Solenoid valve	Xingwei Ningbo (Yadeke,Taiwan for choice)

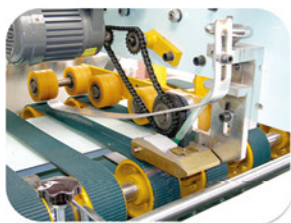
PMW-1060/1080/1100/1200Automatic die cutting & creasing machine



PMW-Automatic folder gluer machine



PMW-Semi-auto gluer

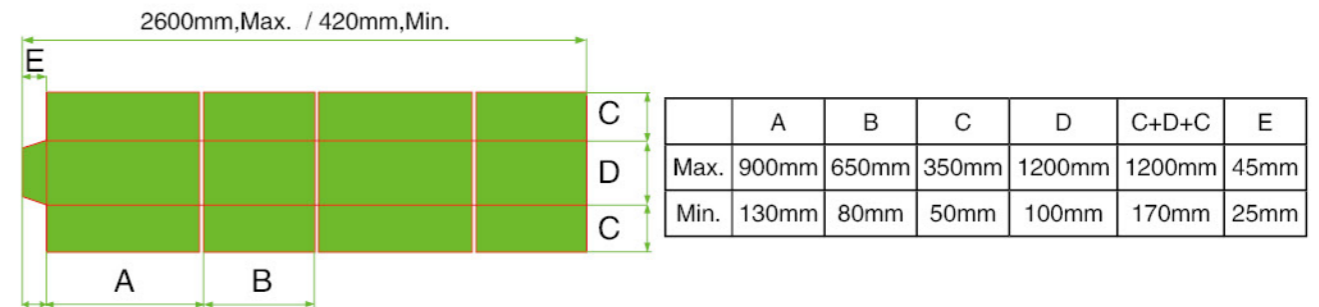


Technical parameter

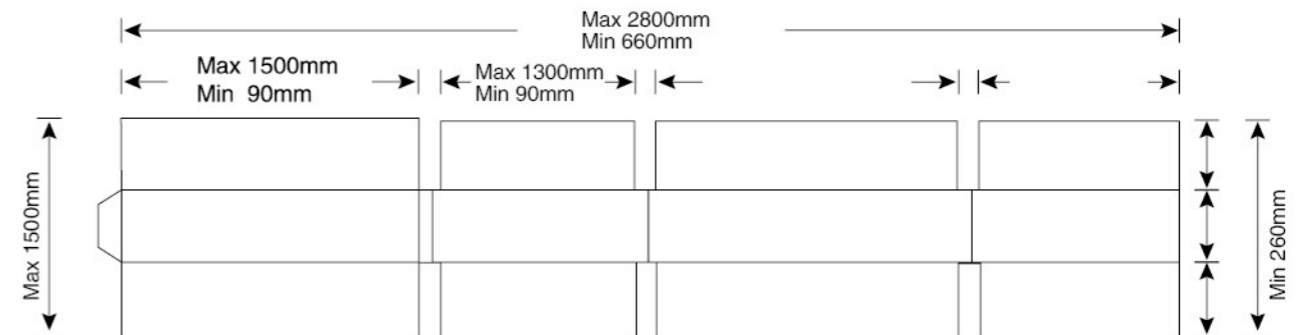
	Model	PMW-2600
1	Max.cardboard(mm)	1200 x 2600
2	Min.cardboard(mm)	170 x 420
3	Dimensions(mm)	L12500 x W3200 x H1600
4	Power required	12kw 380V 3Phase 50HZ
5	Paperboard thickness	3 or 5 layer paperboard
6	Control	PLC & Touch Screen

	Electric parts	Brand name
1	Touch screen	Siemens
2	PLC	Siemens
3	Inverter	Siemens
4	Intermediate relay	Omron
5	Switch power	Meanwell
6	Thermal overload relay	CHINT
7	Circuit breaker	Siemens
8	Overtravel limit switch	Omron
9	Contactora	Siemens
10	Button	Schneider

Automatic folder gluer machine



Semi-auto gluer



PMW–Automatic folder gluer with stitching machine



Features

1200*2600mm fully automatic folder gluer with stitching machine consists of vacuum feeding unit, gluing unit and fold unit, stitching unit as well as counting and delivery unit.
 This machine motor adopt Taiwan Chengbond brand except frequency motor. Frequency adjust speed, equipped with PLC and touch screen control (double PLC and double touch screen), it is easy for operation, stitching and folding unit can be control individually. gluing max speed is 180m/min, average gluing speed is 150m/min; stitching speed 4 nails is 60–70pcs/min.

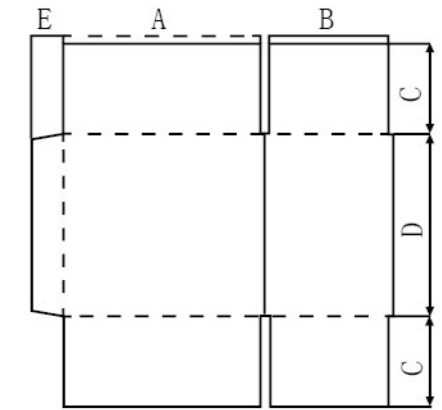


Technical parameter

	FOLDER GLUER	STITCHING
Max.A (mm)	900	750
Min.A (mm)	130	300
Max.B (mm)	650	650
Min.B (mm)	80	180
Min.D (mm)	100	100
Max.C (mm)	350	350
Min.C (mm)	50	90
Max.(A+B)*2 (mm)	2600	2600
Min.(A+B)*2 (mm)	420	900
Max.(C+D+C) (mm)	1200	1200
Min.(C+D+C) (mm)	170	300
Max.E (mm)	38	38
Min.E (mm)	28	28

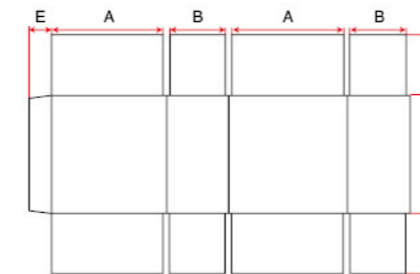
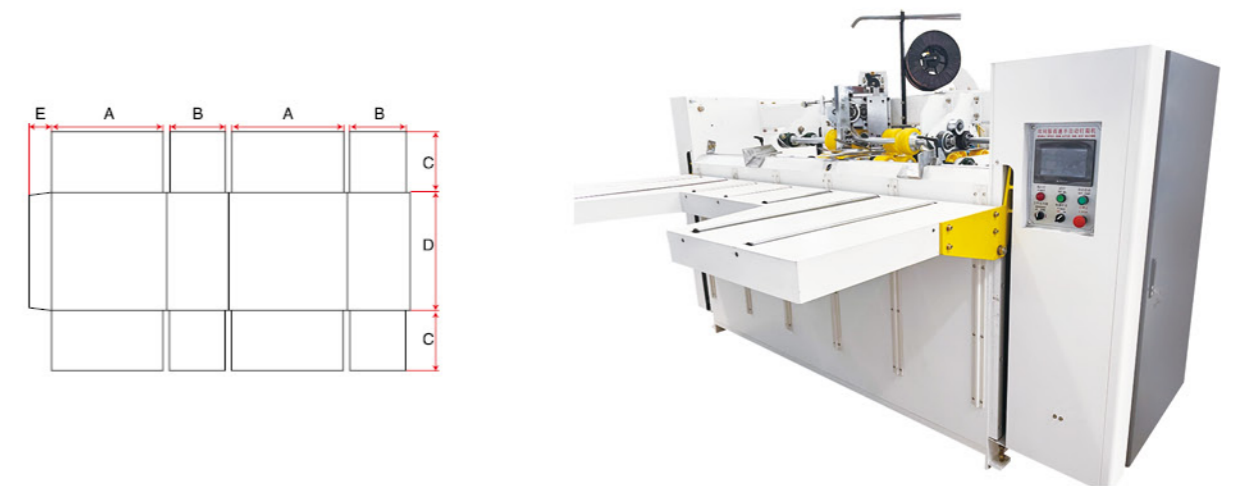
BRAND FOR MAIN ELECTRIC ELEMENT		
1	TOUCH SCREEN:	SIEMENS
2	PLC:	SIEMENS / STITCHING PART USE OMRON
3	INVERTER:	SIEMENS
4	INTERMEDIATE RELAY	OMRON
5	OPTOELECTRONIC SWITCH	SHANGHAI INDUSTRIAL
6	POWER SWITCH	MINGWEI
7	THERMAL OVERLOAD RELAY	CHINT
8	BREAKER	SIEMENS
9	TRAVEL SWITCH	OMRON
10	CONTACTOR:	SIEMENS
11	BUTTON:	SCHNEIDER

PMW–Four servo semi–auto double piece stitching machine



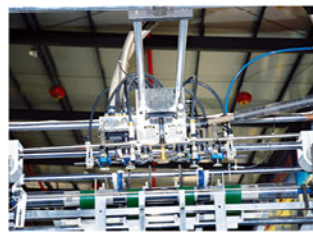
PMW 3000 (Double piece)										
Max (A+B)*2	Min (A+B)*2	Min (C+D+C)	Min cover C	Max cover C	Max width B	Min width B	Max length A	Min length A	Min height D	Max stitching width E
6000mm	1220mm	400mm	80mm	600mm	2600mm	200mm	2800mm	400mm	200mm	40mm

PMW–Double servo semi–auto single piece stitching machine

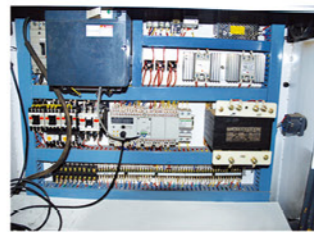


PMW 2000 (Single piece)										
Max. (A+B)*2	Min. (A+B)*2	Min. (C+D+C)	Min. cover C	Max. cover C	Max. width B	Min. width B	Max. length A	Min. length A	Min. height D	Max. stitching width E
4000mm	600mm	350mm	65mm	350mm	850mm	150mm	1150mm	150mm	150mm	40mm

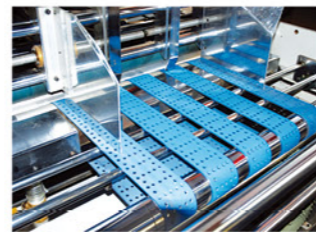
PMW-Automatic flute laminator



Top Feeding Unit



Electrical Unit



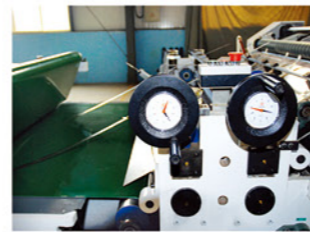
Bottom Feeding Unit



Transmission Unit



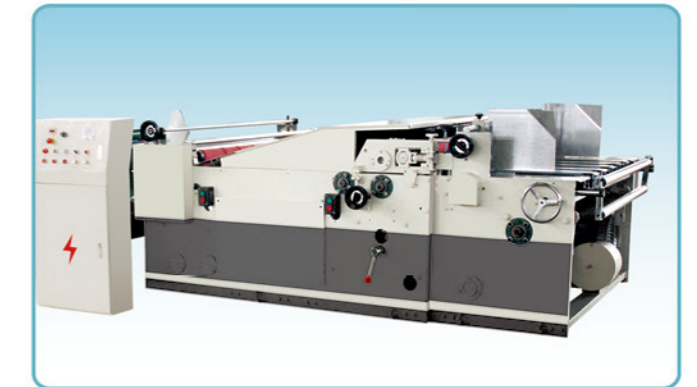
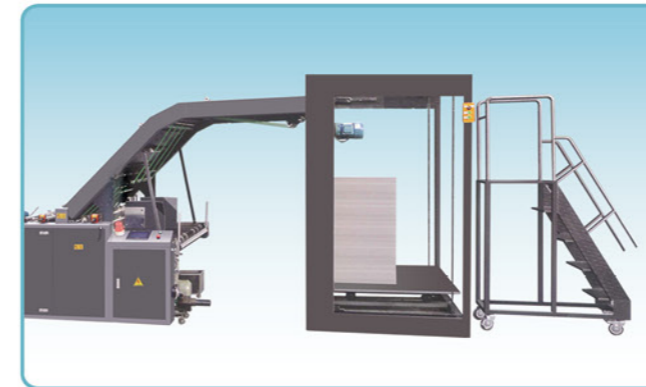
Locating Unit



Adjustment Unit

Model	PMW-1300	PMW-1450	PMW-1600
Max.size	1100 × 1300mm	1100 × 1450mm	1400 × 1600mm
Min.size	350 × 350mm	350 × 350mm	450 × 450mm
Laminate precision	≤ ± 1.5mm	≤ ± 1.5mm	≤ ± 1.5mm
Speed	6000 Sheets/h	6000 Sheets/h	6000 Sheets/h
Total power	12kw	12kw	13kw
Length	12.5m	12.5m	15m
Total weight	6.8T	7.2T	8.0T

PMW-Q-2 Semi-auto flute laminator

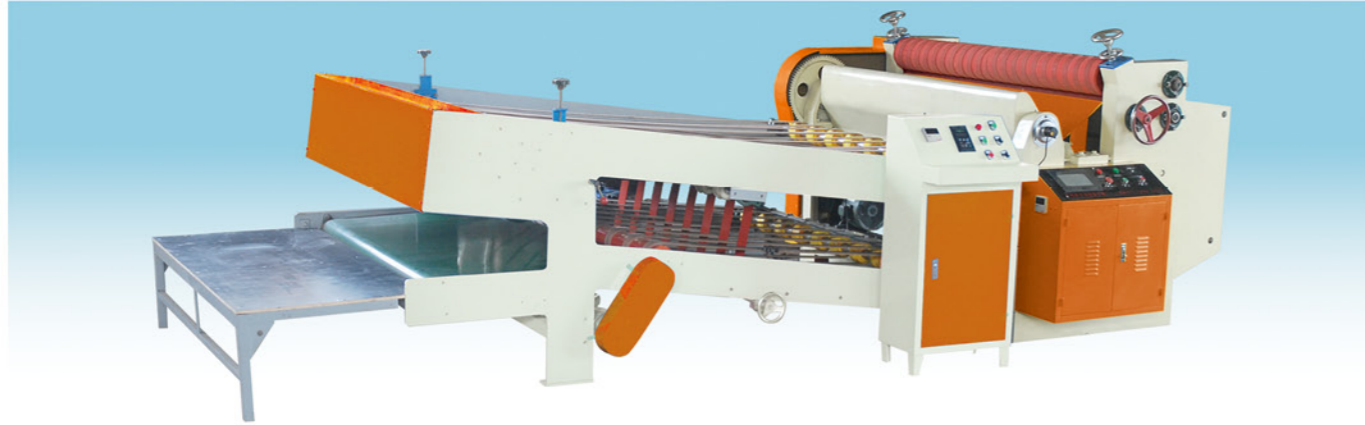


Configuration	ORIGINAL
Gear motor	Jiangsu
Vfd motor	Shanghai
Vortex pump	Zhejiang
Gluing pump	Shanghai
Low voltage power supply	Omron
PVC Conveyor belt	Itlay
Photoelectric	Shanghai
Sunction Belt	Shanghai

Contactora	Chint
Electromagnetic clutch	Zhejiang
Bearings	Harbin
Liquid level relay	CKC
Relay	Chint
Rubber roller	Jizhou
Block board	Material: Aluminum
Chain part	China famous brand
Inveter	Delta

Model	Unit	PMW-1300Q-2	PMW-1450Q-2	PMW-1600Q-2
Max.sheet size	mm	1300 × 1300	1450 × 1300	1600 × 1300
Min.sheet size	mm	350 × 450	350 × 450	350 × 450
Speed	m/min	0-90	0-90	0-90
Total power	kw	7	7	7
Overall dimensions	m	8.8 × 2.2 × 1.7	8.8 × 2.35 × 1.7	8.8 × 2.5 × 1.7
Total weight	Ton	3.5	4.0	4.5

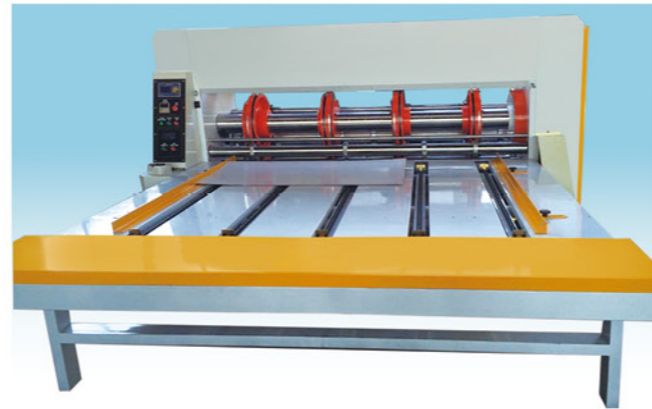
NC Sheet cutter with stacker



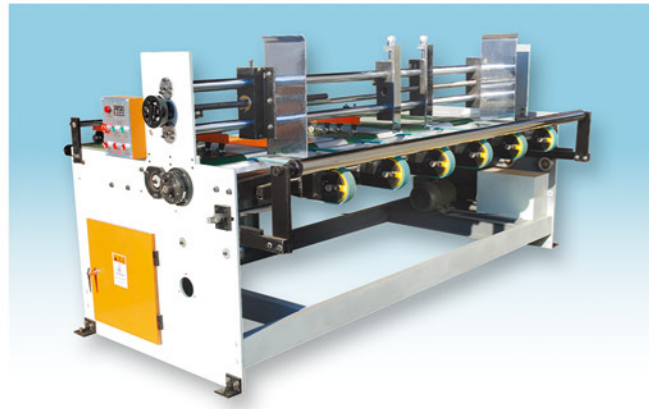
Chain feeding type rotary die cutting machine



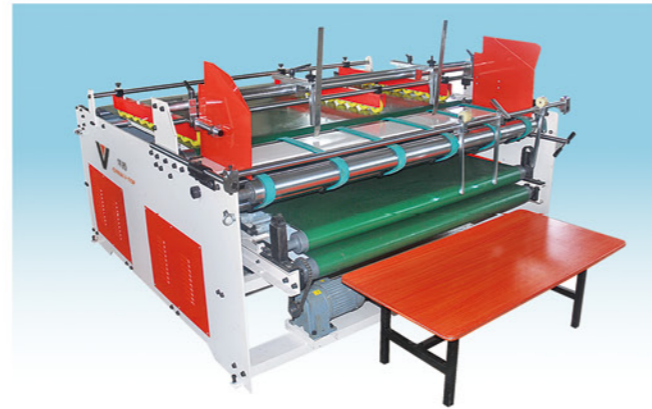
Chain feeding rotary slotting machine



Auto feeding machine



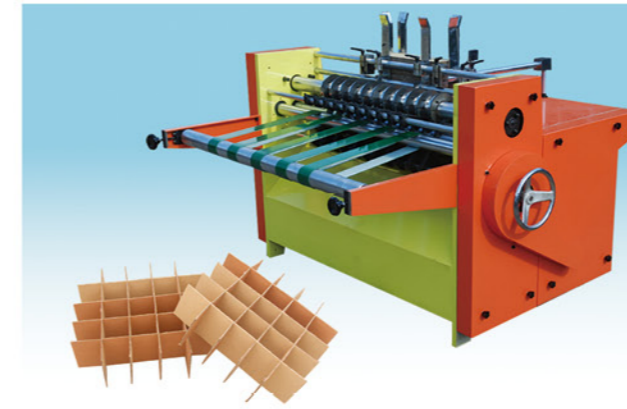
Pressing type fold gluer



Four-knife slotting machine



Clapboard machine



Waste bundling machine



Shredder motor



Pasting machine



Forklift



Forklift with clamp



Double servo manual stitcher



Series binding machine



Bursting strength tester



Crush tester



Pallet truck



PP strapping machine



PE strapping machine

