

# Paper Machinery & Mill



Allbest Creative Development Ltd. (ALLBEST)

# Technology Portfolio

- ❑ Converting Machinery
- ❑ Diaper Machinery
- ❑ Sanitary Napkin Machinery
- ❑ Packing Machinery
- ❑ Pulp & Paper Making Plant
- ❑ Paper Pulp Molding Production Line

# **General Introduction: Paper Mill (Paper and Pulp making)**

**China can boast full capabilities for the research, design and supply of machinery and equipment used in pulp and paper industry. Being the second largest paper and board producer in the world and biggest supplier of paper made from non-wood fiber counting for one half of the total world output, China has the advantages for supplying small and middle scale pulp & paper plant which is supplement to western countries who are good at large scale pulp & paper plant.**

**There has been fantastic development in China's paper industry since last several decades with the fact that key technologies have been imported and our own special traditional paper technologies have been up-dated. Meanwhile, nearly all famous world class companies in the pulp and paper industry have established joint venture or foreign sole-invested manufacturing plants in China.**

**We are the contractor for pulp & paper project in the fields of design, supply of machinery and equipment, erection, commissioning, personnel training. We are in a position to set up new plant, to make renovation and expansion as per your requirements.**



# General Introduction: Paper Converting Machinery

Tissue paper and disposable products such as toilet roll, paper napkin, paper towel, facial tissue, baby diaper and sanitary napkin etc. are no doubt the necessary consuming products in people's life and there are very large demand for them in the market, to assist you get more market share we as the professional supplier of various kinds of tissue paper & disposable products converting machine hope to take this cherished opportunity to intimate your esteemed company of our products details please refer to the catalogue of "Product". During the past 2 decades China's tissue paper & disposable converting industry has been developing very fast thanks to the introduction of advanced technology from abroad and R&D of ourselves.

Now China's products in this field have exported to many countries and have gained very high reputation for their good quality and reasonable price. The ISO 9001 certificate also provides the guaranty to our customer. If you have interests in this field please feel free to let us know and we will provide you our best and timely service.



# Converting Machinery



## High Speed Log Saw (Model: Q)

This equipment is mainly used for slitting toilet rolls and kitchen towels. It features adjustable length, auto-sharpening, which makes the machine of stable running, nice cutting, high speed and good efficiency.

Operation Speed: 80-130 cuts/min;

Log Diameter:  $\Phi$  100-150mm

Two sensors are by the incision machine output entrance, another two are by the input route way. They are to inspect paper jam and knife broken;

Automatic knife grinding;

Automatically retain and change round-knife position;

Automatically oil the round-knife;

Diamond grinding wheel;

Safety shield to protect broken round-knife;

Safety switch on the door to pause the machine in emergency;

Level up paper-roll cutting side;

Amend side of paper roll: tissue roll 30mm;

Incise length of tissue roll: random measure;

Frequency Conversion to change speed:

servo-track, PLC control;

Power Requirement: 8 Kw;

Power Supply: 380V 50Hz;

Air Pressure: 0.6 Mpa;

Machine Size: 6800 x 2100 x 1900mm

Machine Weight: 2500kg



# Fully Automatic toilet rolls/kitchen towels production line (Model: 2002)

Toilet-rolls/kitchen-towels production line is unique and the most advanced fully automatic line in China at present. It has reached the advanced level in this field abroad. It has even been exported to the countries in south-east Asia, far-east and south America, where it has been fully accepted and recommended in turn. It completely replaced the imports of toilet-rolls/kitchen-towels in the Chinese market. The equipment applies SIEMEN's advanced PLC touching and program controlling system, automatically inspects the movement of the whole production line progress. Automatic strain-control system can be suitable and applicable for each type of parent roll. The equipment is provided with a computing controlling system. Its main advantages are high capacity, quality, production speed, efficiency and low energy consumption.

- Parent Roll Width: <=2700 mm
- Parent Roll Outside Dia:  $\Phi$  1500 mm MAX
- Core Inside Dia of Parent Roll: 3" (76.2 mm)
- Mechanical Speed: 400-500 m/min
- Operating Speed: 350-450 m/min
- Log Outside Dia.:  $\Phi$  90—130 mm
- Perforating distance: 114.3mm (4 1/2") (the size could be specified by customer)
- Core Outside Dia. of Final Production:  $\Phi$  35—50 mm normal /  $\Phi$  75mm industrial
- Original Paper: 1-2 ply 14-30 g/m2 toilet paper or towel paper
- Installed Power (A.C. Motor): 25-100 HP
- LOG ACCUMULATOR
- Effective logs: 00-200 rolls
- Loading speed: 25 logs/min
- Installed power (A.C. Motor): 1 HP X2 sets.
- HIGH SPEED LOG SAW
- Cutting length: Variable
- Mechanical speed: 0-150 cuts/min. 2 rolls/cut
- Cutting blade outside Dia.:  $\Phi$  610 mm
- Installed power (A.C. Motor): 5 HP X1 set, 1/2 HP x 1 set



## Automatic Box-packing Tissue Machine (Model: 210-5T)

Box-packing facial machine is able to produce take-away box packing and gentle packing sanitary paper. The equipment applies an advanced electric inspection system. There are some options available: frequency conversion timing controller, model-press equipment, side-model press equipment, 2-4 types color print, which can be specified by customers. Fast speed and high efficiency 160-200m/min. Its width can be rectified by different specification. Product fold in order. The machine has achieved the international standard in this field and is solidly forming a good reputation in the market.

Sheet Size:	200x210 +-2mm
Folding Size:	100x210mm+-2mm/100x170mm+-2mm
Parent Roll Size:	210x5/1050xΦ 1000mm
Parent Material:	13-16 g/m <sup>2</sup> two-ply wood pulp sanitary facial tissue
Capacity:	700-900 sheets/min x 5
Air Pressure:	0.7 Mpa
Equipped With Static Remove-machine	
Power Requirement:	27.5 Kw ( including suctioner of vacuum pump type with silencer)
Outlook Size:	4800 x 1800 x 2100
Machine Weight:	3000 kg





## N-Fold Automatic Paper Towel Folding machine (Model: 3Z)

This kind of machine specially produce hand-wiping and industrial oil-absorbing tissue. It applies gas controlling system and electric inspection system, controlling by frequency conversion timing system. It has the advantages of advanced technology and stable operation as well as fast speed, high efficiency and folding product in order. It completely replaced the imported products by its achieving international standard level. It enjoys very high reputation both at home and abroad.

Production Format:	two, three, four- lane;
Sheet Size:	230 x 240mm +-2mm;
Folding Size:	230 x 80mm+-2mm
Parent Roll Size:	230 x 4 lanes=920mm (Φ 1200mm)
Parent Material:	35-55 g/m <sup>2</sup> damp-resisting wood pulp paper (one ply)
Model-press Equipment:	To customer's request
Operation Speed:	10-100m/min
Power Requirement:	27.5Kw
Outlook Size:	3700 x 1500 x 2100mm
Machine Weight:	3000 kg



## Embossing Tissue Folding Machine (Model: I)

This kind of embossing tissue folding machine in the form of vacuum suction is used to automatically fold handkerchief which is of small volume and convenience for taking after press, cut and fold. The equipment mainly produces top-grade napkins, obvious model-press and clear embossing. There are 1 to 2 types of color to be chosen according to the different requirements to suit every kinds of demand of the market. It uses advanced frequency conversion timing system, automatic strain-control system, automatically correct-deflection controlling system and a folding machine, which has the pushing and holding functions. This machine has fast speed (600-750 pieces/min), reasonable structure and convenience operation, stable movement and nice outlook. It is the most ideal napkins' producing equipment.

Finished product specification: L105mm x W55mm, L75mm x W55mm

Parent Request: 13-16g/m<sup>2</sup> three-ply wood pulp tissue paper

Parent Size:  $\Phi$  1200 x 210mm

Power: 4.5 KW variable motor

Folding Speed: 600-750 sheet/min

Output paper at the same time

Embossing equipment: steel embossing roll to rubber- covered roll; Steel embossing roll to steel embossing roll (specified by customers)

Stamp equipment: two types of color printing (specified by customers)

Step-less measurement: to insure different strain of parent paper



## Embossing Tissue Folding Machine (Model: II)

This equipment mainly produce top-grade napkins, obvious model-press and clear model-printing. There are 1-8 types of color to be chosen according to the different requirements to suit every demands on the market. It applies the advanced frequency conversion timing system, automatic strain-controlling system, automatically correct-deflection controlling system and a folding machine, which has the pushing and holding functions. Fast speed (550-750pieces/min), reasonable structure and convenience operation, stable movement and nice outlook. It is the most ideal napkins' producing equipment.

Parent Request: 25 g/m<sup>2</sup> one ply, 13-20 g/m<sup>2</sup> two-ply wood pulp tissue paper;

Parent size:  $\Phi$  1000 x 275mm;

Product Size: 275 x 275mm

Folding Size: 137.5 x 137.5mm

Output paper at the same time

Model-press Equipment: steel embossing roll to rubber-covered roll; Steel embossing roll to steel embossing roll (specified by customers)

Stamp equipment: two types of color printing (specified by customers)

Step-less measurement: to insure different strain of parent paper



## 2-8 Colors Print Folding Machine (Model: III)

The machine is mainly used in producing top-grade domain napkins. It adopts the advanced technology from abroad and at home, specialized in producing high quality color-print napkin and facial tissue and handkerchief. Production speed is up to 500 pieces/min or 150m/min (adding some special devices up to 350m/min). The machine including a main folding machine, which has pushing and holding function, a 1800mm unwinder, a vacuum cleaner, dryer, steel to steel or steel to fiber rollers calendaring systems and multi-folder system. The machine can use several sizes folding system, producing different sizes products with quick transfer.

Product Size 190mm x 190mm ~ 500mm x 500mm

Max. Unwind Size  $\Phi$  1800 x 500mm

Production Speed 300/min

Web Layer 1-4 ply

Printing Unit 1-8 color

Folding 1/4 or N or M or E type

Electric Power 23 KVA

Compressed air 8 Mpa

Options Enclosed ink feeding;

Observing video;

360° register electrically;

4-roller edge guider;



## Tissue Paper Slitting & Rewinding Machine (Model: SR)

The equipment is used to rewind and cut 1 ply parent roll into 2 ply, 3 ply or 4 ply rolls of different specifications, ready for making folding tissue, napkin and facial tissue, enjoying high performance, compact structure, stable running and easy operation. It is also able to mount embosser and printer on the machine.

Sheet Size:	$\leq \Phi 1300\text{mm}$ ;
Parent Roll Size:	$\leq \Phi 1000 - \Phi 1200 \times 1760\text{mm}$ ;
Capacity:	300m/min (13~23 g/m <sup>2</sup> );
Cut Size:	$\geq 50 \text{ mm}$ ;
Power Requirement:	6kw;
Machine Size:	5200 x 2400 x 2100mm;
Machine Weight:	3200kg;



## Automatic toilet roll production line (Model: XJ\_II)

The machine is our new style machine for processing toilet roll. It is an all in one machine with mechanism, electric and pneumatic technology. Its distinct feature is to finish all process in one time, including trimming, tail sealing. It is the ideal machine for processing toilet roll with high efficiency, high quality and low energy consumption. It is connected with the automatic log saw to consist the production line and it can also be equipped with a log accumulator as per the requirement.

Main feature:

1. Through photoelectron technology it can make the tissue log reel tightly first and then loosely. It can give the different elasticity for different parts of tissue log. Thus the paper core won't separate from the toilet roll after a long time store.
2. Full automatic core feeding device, it doesn't need to feed the core during the rewinding process manually. Automatic push the log out after rewinding then reset to rewind.
3. Automatic rewinding , trimming, sealing, all process is finished at one time. The toilet roll has about 18mm ending for easy use.
4. Embossing device can be equipped according to the requirements of clients. It make the tissue more loose so as to make the weight of same size product to decrease and increase the additional value.
5. the mechanism and electricity sensor inspects the parent roll's moving situation, to make sure that the quality of production is steady-going when the machine run with high speed.
6. It applies computing program to control the machine's operation.



# Automatic Core Making Machine (Model: XDJ\_III)

This machine improved and innovated by digesting and absorbing the advanced technology abroad, and is the advanced processing equipment for spiral paper tube. The advantages of this machine: highest speed up to 40m/min, trimness core cutting-point, stable materials (thick paper) outputting.

Gas system:	Min. 6 air pressure
Gas consumption:	100liter/min;
Drive:	variable speed motor;
Machine width:	1800-5400mm;
Speed (2600mm width):	Max. 40m/min;
Core Axis Dia.:	30~50mm;
Max. Power:	5.5 kw;
Others:	
Function Type:	Molding, separate cutting group, driving by Non-brush motor;
Molding Cell:	Non-brush motor drive a plane belt;
Paper-core cutting:	Adopts the $\Phi 77$ mm dia. paper-core cutting Knife which drived by motor;
Paper-tape lubricant:	Solid was lubricate continually;
Paper-core length:	measured by restricting cell switch;
Paper-core output:	conveyer belt;
Molding belt strain:	gas;
Product standard	
Parameter of paper-core:	2-3-4 level paper belt $\Phi 30$ mm (max.width 60mm) paper belt $\Phi 50$ mm (max. width 100mm);
Paper-core Max. Thickness:	2mm;
Min. incision length:	1000mm;
Cut off tolerance:	+ -2mm



## Band Saw (Model: 3750)

This small machine is the auxiliary equipment for the rewinders and facial folders. It can cut the toilet rolls and facial tissue into the desired length or width. The machine is able to automatically sharpen the blade, and the cutting table is movable to facilitate the cutting, making it a stable running and high efficiency machine for the production of toilet rolls and facial tissue.





# Automatic Trimming/Sealing/Embossing and Perforating Rewinder (Model: E)

Main features include:

Automatic core loading and positioning. The logs are automatically pushed out after finishing winding, and then start winding again. The cores can be adjusted to any size of  $\Phi 20\sim 50$ mm paper tubes or stainless steel tubes within one minute.

2. Automatic trimming, gluing and sealing: it has replaced the traditional sealing of rolls with the international popular trimming and sealing, which can have 10~18 mm tails to facilitate to start pulling out the paper. At the same time, it can greatly cut down the wastage of the paper, thus to cut down the production cost.

3. Advance programmable control technology: The winding profiles can be tight at the beginning of winding, and then getting loose, to avoid the problems that the cores are loose from the rolls after long time storage.

4. Automatic detection of paper break and paper wrap up: to guarantee the high quality of the finished rolls even in the high speed operation.

5. Three back-stands, pneumatic jumbo roll loading, and pneumatically wide belt paper unwinding driving, and individual web tension control unit for each jumbo roll.

6. Point to point embossing unit: the paper are embossed on both sides, and feel softer, and have clearer and better embossing.

The rolls can be of the same diameters with less paper.

The web can be drew on the machinery by the two jog buttons, making it more safe and easier to drew the web. Finished product

size:  $\Phi 60\sim 150$  (winding profile adjustable)

Raw material size :  $\leq \Phi 1100$

Core Diameter:  $\Phi 20\sim 50$

Perforating distance: 90~160mm (variable)

Mechanical Driving: Variable speed gear box

Capacity: 180~200m/min

Parameter set-up: Touch Button LCD Screen Operation Panel (optional)

Pneumatic system: 3HP air compressor, mini pressure 5kg/cm<sup>2</sup>

Power: 5.5 ~11 KW

Paper width: 1400 ~ 2800mm

Overall size: 6200x2600x1800mm ~ 6200x4000x1800mm

Weight: 3800~6800 kg



## Automatic Core Machine (Model: A)

On the principle of electrical magnet and lever, MEC-A Automatic Core Machine is able to synchronically cut the cores, featuring of high speed running, energy saving and nice winding profiles, making it an ideal equipment for the production of cores.

Finished product size:  $\Phi 15 \sim \Phi 70\text{mm}$   
Core layers:  $\leq 7$  ply  
Capacity: 18 m/min  
Core length: variable  
Power: 3.25Kw  
Overall size: 3500x770x1500mm  
Weight: 1000kg



# Wet Tissue Folding & Packing Machine (Model: DC200)

- Suitable material: dustless paper, nonwoven fabrics.  
Size of the material:  $\Phi$  1000 mm x 150 mm (width)  
Unfolded size of wet tissue: 200 mm (adjustable) x 150mm (adjustable)  
Package size: 150mm (adjustable) x 65mm (adjustable)  
Packing film: opp/pe.cpp. al/pe etc.  
Speed: 120 sheets/min.  
Power: 380V, 50Hz; 4 kw  
Machine size: Main machine 5500 x 920 x 1650; water tank 900 x900 x1500



# Diaper Machinery



# Baby Diaper Machine (Model: 150A)

## Brief Introduction Of Equipment

- 1.It can produce economical type and high-grade type products with elastic waistline or stereo-protection.
- 2.It can produce three specifications (L.M.S) of products by exchanging cutting tools or simply changing belt wheel.
- 3.Craftwork process is reasonable in structure while convenient and easy in operation.
- 4.Each working part of product is advanced in design, U type is perfect in third dimension.
- 5.After molding, products with double wings folding are three-folded into square type, arranged vertically and stacked out in line.

## Character And Structure

- 1.Web wheel with large diameter sucks and spreads pulp, thickness of cotton core is even under high-speed operation.
- 2.Material of stereo-protection is complex and molding on machine. Extending of rubber band can be regulated.
- 3.Faceplate supports working parts to facilitate operation and regulation.
- 4.During production, jumbo roll adopts vacuum absorption conveyance to guarantee stability of material tension.
- 5.Fixed positions of each material are all equipped with electrical differential device, regulate relative positions without stopping machine.
- 6.Driving system consists of close gear box, universal joint shaft coupling and arc-gear synchronous belt with good synchronization and high mechanical efficiency.
- 7.Bearing, driving belt and electric components are of domestic famous brands.
- 8.Hammer type crusher can suit untreated or treated reel pulp.

## Technology Parameter

- 1.Production Speed: 150~200 pcs/min
- 2.Machine Power: 90 KW (380V 50Hz) (excluding glue machine)
- 4.Overall Size of Equipment (L x W x H m): 16.5 x 2.8 x 2.8
- 5.Weight of Equipment: about 20t



# Automatic High-Speed Baby Diaper Machine (Model: 150B)

## Brief Introduction Of Equipment

1. Programmable controller automatically controls working procedure, temperature of embossing roller and other technical requests.
2. Automatically control unwinding tension of hydrophobic non-woven fabric, absorbable non-woven fabric, PE film and catch material and get rid of inferior products.
3. Main motor uses frequency conversion to regulate speed. Automatic decrease or increase speed when splicing material.
4. Man-machine interface displays picture. Automatically set up alarm and stop machine when breakdown happens in production.
5. It can produce economical or high-grade products with elastic waistline or stereo-protection.
6. It can produce three specifications (L.M.S) of products by exchanging cutting tool and simply changing belt wheel.
7. Simple in operation, high in production speed, assuring in quality.
8. Automatic rectifying when material are input during production (rectifier is selected and supplied by the user).

## Character And Structure

1. Ultra-thick faceplate supports assemble parts to facilitate operation and adjustment.
2. Web wheel with large diameter sucks and spreads pulp, thickness of cotton core is even under high-speed operation.
3. During production, jumbo roll adopts vacuum absorption conveyance to guarantee stability of material tension.
4. Fixed positions of each material are all equipped with electrical differential device, regulate relative positions without stopping machine.
5. Driving system consists of close gear box, universal joint shaft coupling and arc-gear synchronous belt
6. Programmable controller, man-machine interface, frequency converter is of Japanese " MITSUBISHI" brand.
7. Bearings in key positions are of Japanese NSK, synchronous belt and conveyance belt are of import products.
8. Reel axle is in fast expanding & tightening style, which is convenient and reliable in usage.
9. Hammer type crusher can suit untreated or treated reel pulp.

## Technology Parameter

1. Production Speed: 180~250 pcs/min
2. Machine Power: 95 KW (380V 50Hz) (excluding glue machine)
4. Overall Size of Equipment (L x W x H m): 20 x 1.6 x 2.8
5. Weight of Equipment: about 3



# Baby Diaper Pad Machine (Model: 150)

## Brief Introduction Of Equipment

- 1.It can produce economical or high-grade products with stereo-protection against leakage.
- 2.It can produce three specifications (L.M.S) of products by partial regulation.
- 3.The usage mode of products can select release paper sticking or fastening belt in waistline.
- 4.Perfect and advanced in function and design, reasonable in structure of production process, stable in character, convenient in operation.

\* Equipment is divided into economical type or high-speed type, high-speed machine is equipped with computer to materialize automatic controlling.

## Character And Structure

- 1.Fixed positions of each material are all equipped with electrical differential device, regulate relative positions without stopping machine.
- 2.Driving system consists of close gear box, universal joint shaft coupling and arc-gear synchronous belt.
- 3.Conveyance of material uses vacuum absorption conveyance to guarantee material tension compatible in production.
- 4.Cotton pulp after packing is rolling-pressed by web wheel. Cotton core is unified in thickness and product is comfortable in usage.
- 5.Stereo-protection is complex on machine, the extending rate of rubber band can be regulated, U type is in good third dimension.
- 6.Bearing, synchronous belt and electrical components are of domestic famous brands.
- 7.Hammer type crusher can suit untreated or treated reel p

## Technology Parameter

- 1.Specification of Product: Length: 300~450 mm  
Width: 130~200 mm  
Weight each pc: 20~35 g
- 2.Production Speed: 120~180 pcs/min
- 3.Machine Power: 40 KW (380V 50Hz)  
(excluding glue machine)
- 4.Overall Size of Equipment (L x W x H m): 15.2 x 2.4 x 2.3
- 5.Weight of Equipment: about 20t



\* As per request, it can be equipped with computer to materialize automatic controlling. Production speed is 250~300pcs/min.

# Adult Tending Mattress Machine (Model: 60)

## Brief Introduction Of Equipment

- 1.This machine is the equipment to produce one-off patient tending mattress or pet nest mattress, it can produce various specifications of extra large products.
- 2.The products are formed with wood pulp after being heated and net pressed, the usage of it is comfortable and safe.
- 3.The regulation of altering specification is easy. Operation in production is easy and brief.
- 4.After molding, products are three-folded in length and width to become square type and output. Packing is convenient.

## Character And Structure

- 1.Forming and orientation procedure of products are equipped with differential devices, thus regulate working procedure and relative position without stopping machine.
- 2.In production, conveyance of jumbo roll adopts vacuum absorption form to stable material tension.
- 3.Driving system consists of close gear box, universal joint shaft coupling and synchronous belt.
- 4.Hammer type crusher can suit untreated or treated reel pulp.
- 5.SAP is sprayed out in two routes, infliction amount is controlled by step-less speed-regulator.
- 6.Thick in components of machine frame, working faceplate and driving backboard, strong semi-seismic in frame structure, good stability and high-speed operation without shake.
- 7.Bearing, driving belt and electric assemble parts are of domestic famous brands.

## Technology Parameter

1. Production Rate:
  - a. set production speed  $\leq 100\text{m/min}$
  - b. stable production speed  $50\sim 70\text{m/min}$
  - c. rate of finished products. $=98\%$  (excluding breakdown of glue machine or exchanging material)
- 2.Machine Power:  
main machine: 70Kw (380V 50Hz)  
crusher 11kw~75kw ( it is at the buyer's option to select machine type)
- 3.Products Specification  
(L x W x H m):  $(450\sim 1200) \times (450\sim 950)$
- 4.Overall Size of Equipment (L x W x H m):  $15 \times 3.5 \times 3$
- 5.Weight of Equipment: about 35t





# Sanitary Napkin Machinery



# Fast-Easy Packing Stereo-Protection Winged Line (Model: 180B)

## Brief Introduction Of Equipment

- 1.It can produce ultra-thin type, cotton core type economical or stereo-protection sanitary napkin.
- 2.The structure and type of independent small package are advanced in designing and suitable to operate in high speed, especially when producing sanitary napkin with large specification.
- 3.Independent package type: sanitary napkin after double wings folding and sticking paper is stuck with glue on outer package film, and three-folded, packed synchronously. It is tearing easily with seal and forming into square type small package.
- 4.Material of stereo-protection and three-piece style is complex on machine with hitting dot, stereo-protection U type can be regulated.
- 5.It can produce products with double wings folding and sticking paper but package.
- 6.Input fixed positions of product material are all equipped with electrical differential devices to operate and control, regulate relative positions without stopping machine.

## Character And Structure

- 1.The directive wheel opens and closes airflow instantly to ensure sheet of paper can be absorbed under high-speed operation.
- 2.After revolving the direction, products are corrected and conveyed equidistance. The packing of product is trim.
- 3.Driving system consists of gear box, universal joint shaft coupling and arc-gear synchronous belt. The driving is stable and synchronous.
- 4.With the type of net belt absorbing cotton core, remains of cotton core can be retrieved.
- 5.Bearing, driving belt and electrical components are of domestic famous brands.
- 6.Side sealing and cutting of small package are combined. Regulation is brisk and sealing is beautiful.
- 7.Round sealing and side sealing of small package uses air cylinder to press, which will fall off automatically when stopping machine.
- 8.In production, raw material uses vacuum absorption form to guarantee stability of material tension.

## Technology Parameter

- 1.Set Production Speed: stereo-protection sanitary napkin 180~240 pcs/min; economical sanitary napkin 200~280 pcs/min
- 2.Production Speed: stereo-protection sanitary napkin 180~200 pcs/min; economical sanitary napkin 200~250 pcs/min
- 3.Machine Power: 55 KW (380V 50Hz) (excluding glue machine)
- 4.Overall Size of Equipment (L x W x H)
- 5.Weight of Equipment: about 18t



# Release Film Packing Winged Sanitary Napkin Production Line (Model: 180A)

## Brief Introduction Of Equipment

- 1.It is the equipment to produce ultra-thin or silk thin sanitary napkin with delicate small package.
- 2.Character of products:  
Thin film on the back of sanitary napkin is stuck with glue on outer package film and also folded into square type. The thin film is easily tearing with seal (Product is without release paper in the middle).
- 3.It can produce economical type or stereo-protection type sanitary napkin with dustless paper as absorbent material. According to the request, it also can be equipped to produce ultra-thin wood pulp cotton core products. The remains of cotton core can be reused.
- 4.Material of stereo-protection and three-piece style is molding on machine with also hitting dot on short-cut non-woven fabric.
- 5.Input fixed positions of product material are all equipped with electrical differential devices to operate and control, regulate relative position without stopping machine.

## Character And Structure

- 1.The structure, such as turning around of products, wings folding, three-folding and so on are advanced in design. The molding of small package is trim.
- 2.Driving system consists of gear box, universal joint shaft coupling and arc-gear synchronous belt, with the feature of good synchronization and high mechanical efficiency.
- 3.The round sealing, side sealing adopts air cylinder to press, which will fall off automatically when stopping machine.
- 4.Bearing,driving belt and electric components are used from domestic famous brands.
- 5.Conveyance of material in production adopts vacuum absorption form to guarantee stability of material tension in operation.

## Technology Parameter

- 1.Production Speed: 200-250 pcs/min
- 2.Machine Power: 48 KW (380V 50Hz) (excluding glue machine)
- 3.Overall Size of Equipment (L x W x H m): 12.5 x 1.6 x 2.3
- 4.Weight of Equipment: about 16t

## According to The Request of Customers

- 1.It can be equipped with computer to materialize automatic controlling. Production speed is 300~400 pcs/min.
- 2.It can produce ultra-thin san



# Double Routes Forming Fast-Easy Packing Winged Line (Model: 180C)

## Brief Introduction Of Equipment

- 1.It can produce ultra-thin type (silk thin type), cotton core type (single route or double routes) economical or stereo-protection sanitary napkin. The small package is fast-easy packing type.
- 2.It is suitable to produce sanitary napkin with obvious projection in the middle.
- 3.Cotton core is laid out in two route: one is model wheel spreading out cotton core, one is net belt absorption cotton core. Two routes of cotton core can separately control the amount of paper pulp.
- 4.SAP brings to bear on model wheel cotton core. The titling of cotton core SAP can select complex type or fixed type.
- 5.Material of stereo-protection and three-piece is complex and molded on machine. The surface material is with hitting dot on short-cut non-woven fabric.
- 6.Fixed input positions of product are all equipped with electric differential devices to operate and control, regulate relative position without stopping machine.

## Character And Structure

- 1.Inhaling and putting paper pulp of model wheel are advanced in design: weight of cotton core is accurate and the gap of spreading is coherent.
- 2.Driving system consists of close gear box, universal joint shaft coupling and arc-gear synchronous belt with the feature of synchronization and high mechanical efficiency.
- 3.Round sealing, pressing and cutting of small package uses air pressure style, which separate automatically when stopping machine.
- 4.The electrical differential device is advanced in design to guarantee usage lifetime.
- 5.Bearing, driving belt and electric components are of domestic famous brands.
- 6.In production, conveying of raw material adopts vacuum absorption form to guarantee stability of material tension in operation.
- 7.The remains of cotton core can be retrieved on machine.

## Technology Parameter

- 1.Production Speed: 180~240 pcs/min;
- 2.Machine Power: 58 KW (380 V 50 Hz) (excluding glue machine)
- 3.Overall Size of Equipment:



# Three Folding Independent Packing Winged Line (Model: 180D)

## Brief Introduction Of Equipment

- 1.It can produce ultra-thin type, cotton core type economical or stereo-protection sanitary napkin.
- 2.Independent Packing Form: Finished sanitary napkin after being molded by main machine becomes package type product after undergone by each structure of small package machine.
- 3.By cutting off operation of small package machine, it can produce product without outer packing.
- 4.Surface material of stereo-protection and three-piece is complex and molded on machine, also with hitting dot on short-cut non-woven fabric.
- 5.Fixed input positions of product material are all equipped with electrical differential devices to operate and control, regulate relative positions without stopping machine.

## Character And Structure

- 1.Bearing, driving belt and electrical components are of domestic famous brands.
- 2.Differential device is advanced in design with stability in operation and guarantee in usage lifetime.
- 3.Driving system is reasonable in structure: the structure consists of close gear box, universal joint shaft coupling and arc-gear synchronous belt with high synchronization and stable driving.
- 4.The remains of cotton core can be retrieved on machine.
- 5.Side sealing and cutting of small package is combined, the cutting will not move and the regulation is brisk.
- 6.Round sealing and terminal sealing of small package uses air cylinder to press, which fall off automatically when stopping machine.
- 7.In production, conveyance of raw material takes vacuum absorption form to guarantee stability of material tension in operation.

## Technology Parameter

- 1.Production Speed:200~250 pcs/min;
- 2.Machine Power: 48 KW (380V 50Hz) (excluding glue machine)
- 3.Overall Size of Equipment (L x W x H m): 13 x 2.1 x 2.15
- 4.Weight of Equipment: about 15t

\* As per request, it can be

50~350 pcs/min.



# Automatic Fast-Easy Packing Stereo-Protection Winged Line (Model: 180E)

## Brief Introduction Of Equipment

- 1.It can produce ultra-thin type, cotton core type economical or stereo-protection sanitary napkin. Small package is in fast-easy packing.
- 2.Programmable controller automatically controls working procedure, temperature of embossing roller and other technical requests.
- 3.Touching screen controller is equipped and man-machine interaction picture-displayer is offered.
- 4.During production, automatically catch dustless paper, non-woven fabric, perforate film, outer package film, P.E. film and control material tension and get rid of waste products automatically.
- 5.Set up alarm and stop machine automatically when breakdown takes place during production.
- 6.Main driving uses frequency speed-regulator, raising and lowering speed automatically when catching material.
- 7.Material of stereo-protection, three-piece style are complex on machine with hitting dot on short-cut non-woven fabric.
- 8Automatic rectifying when material are input during production (rectifier is selected and supplied by the user).

## Character And Structure

- 1.During production, conveyance of raw material adopts vacuum absorption form, material tension is stable in production.
- 2.Fixed input positions of material are all equipped with electrical differential devices to operate and control, regulate relative positions without stopping machine.
- 3.Driving system consists of close gear box, universal joint shaft coupling and arc-gear synchronous belt with good synchronization and arc-gear synchronous belt with good synchronization and high mechanical efficiency.
- 4.Bearing in key structures are of Japanese brand and of domestic famous brands in other positions.
- 5.Machine frame and faceplate are strong in structure with good anti-seismic and high stability to protect against trembling under high-speed rotation.
- 6.Man-machine interface, programmable controller, tem-controlling module, frequency converter is of Japanese "MITSUBISHI" Brand.
- 7.Remains of cotton core can be reused on machine.
- 8.Reel axle is in fast expanding & tightening style, which is conveni

## Technology Parameter

- 1.Production Speed:320~400 pcs/min
- 2.Machine Power: 60 KW (380V 50Hz) (excluding glue machine)
- 3.Overall Size of Equipment (L x W x H m): 19.8 x 2.2 x 2.25
- 4.Weight of Equipment: about 23t



# Automatic High-Speed Fast-Easy Packing Stereo-Protection Line (Model: 180F)

## Brief Introduction Of Equipment

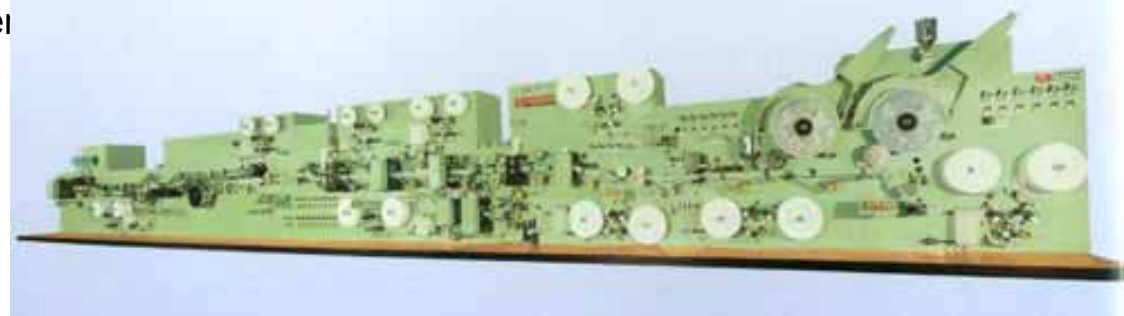
- 1.It can produce ultra-thin type, cotton core type economical or stereo-protection sanitary napkin. (Absorptive object can be lined with model wheel cotton core in center-protrusion style).
- 2.Programmable controller automatically controls working procedure, temperature of embossing roller and other technical requests.
- 3.Touching screen controller is equipped and man-machine interaction picture-displayer is offered.
- 4.All material except fast-easy adhesive tape can be caught automatically during production. Automatically control material tension and get rid of waste products when exchanging material.
- 5.Set up alarm and stop machine automatically when breakdown takes place during production.
- 6.Main driving uses frequency speed-regulator, raising and lowering speed automatically when catching material.
- 7.Material is rectified and input automatically during production (rectifier is selected and supplied by the user)..
- 8.Hammer type crusher can suit untreated or treated reel pulp.
- 9.Material in stereo-protection, three-piece style is complex on machine with non-woven fabric shortcut hitting dot.

## Character And Structure

- 1.Machine frame is strong, and high in rigidity, adopting 50mm square steel with large and extra thick faceplate.
- 2.Driving system consists of close gear box, universal joint shaft coupling and arc-gear synchronous belt. Driving accuracy is high and using lifetime is guaranteed.
- 3.Bearing and convey belt in main working part are of import famous brands.
- 4.The molding and fixing position of products are all equipped with electrical differential device, relative regulation can be undertaken without stopping machine.
- 5.Conveyance of jumbo roll adopts vacuum absorption form, tension of material during production is stable.
- 6.Man-machine interface, programmable controller, tem-controlling module, frequency converter is of Japanese "MITSUBISHI" Brand.
- 7.Material-reeling bearing is in fast expanding type, which is convey

## Technology Parameter

- 1.Set Production Speed: 600 pcs/min
- 2.Production Speed: 400~500 pcs/min
- 3.Machine Power: 98 KW (380V 50Hz) (excluding glue machine)
- 4.Overall Size of Equipment (L x W x H m): 26.5 x 3.4 x 2.6
- 5.Weight of Equipment: about 30t

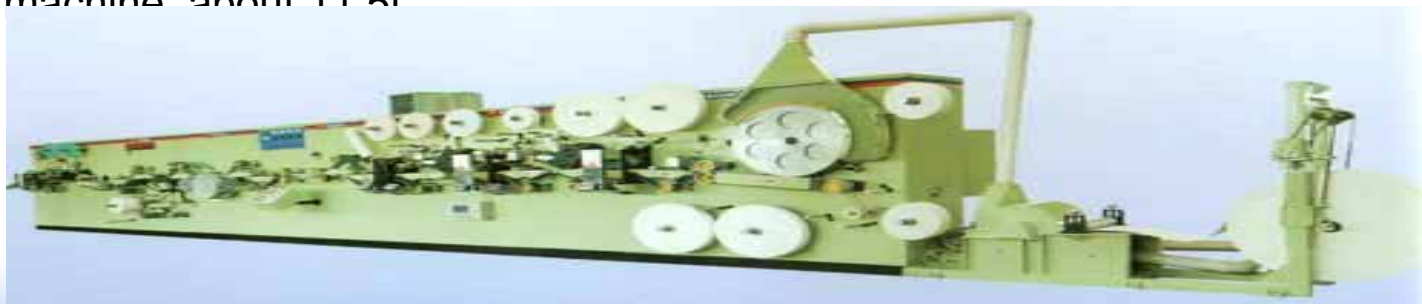


# Vertical Fast-Easy Packing Woman Sanitary Napkin Pad Machine (Model: 600A)

**Brief Introduction Of Equipment** 1.It can produce sanitary napkin pad with dustless paper, fluffy non-woven fabric, or three-piece style. It can be increased to produce wood pulp cotton core sanitary napkin pad according to the request. 2.Vertical production in main machine. Packing type of small package: product horizontally is stuck with glue on outer package film and all packed into square type.3.Packing type is advanced in design, it suits production in high speed and also improves packing grades.4.Mechanical components of product crafts are advanced in design, high in production speed and also guarantee in rate of finished products.

**Character And Structure** 1.During production, jumbo roll adopts vacuum absorption conveyance to guarantee stability of material tension.2.Fixed positions of each material are all equipped with electrical differential device, regulate relative positions without stopping machine.3.Heating roller uses air cylinder to press, which will fall off automatically when stopping machine.4.Airflow instantly opens and closes while rotate and absorb sanitary napkin pad to ensure products are absorbed under high-speed operation.5.Product is put into outer package film after being corrected equidistance. Packing of products is trim and standard.6.Driving system consists of close gear box, universal joint shaft coupling and arc-gear synchronous belt with good synchronization and stable driving.7.Bearing, driving belt and electric components are of domestic famous brands.

**Technology Parameter** 1. Production Speed: 400~500 pcs/min 2.Machine Power: 30 KW (380V 50Hz) (excluding glue machine) 3.Overall Size of Equipment (L x W x H m): Dustless paper type sanitary napkin pad machine: 11.5 x 2.1 x 2.15 Dustless paper and cotton core type sanitary napkin pad machine: 14 x 2.2 x 2.44.Weight of Equipment: Dustless paper type sanitary napkin pad machine: about 10t Dustless paper and cotton core type sanitary napkin pad machine: about 11.5t



Sanitary Napkin Machinery



# Automatic High-Speed Vertical Fast-Easy Packing Woman Sanitary Napkin Pad Machine (Model: 600B)

## Brief Introduction Of Equipment

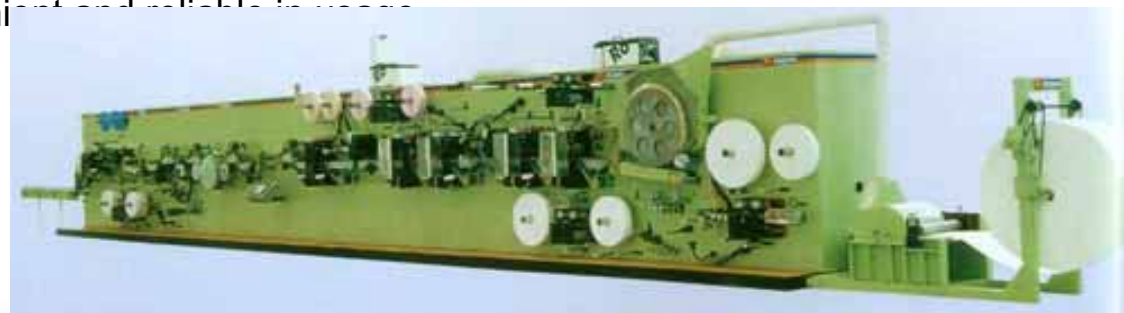
- 1.It can produce dustless paper type, fluffy non-woven fabric type or three-pieces style sanitary napkin pad. It can be increasingly equipped with cotton core type sanitary napkin pad as per the request. Small package is of fast-easy packing type.
- 2.Programmable controller automatically controls working procedure, temperature of embossing roller and other technical requests.
- 3.Touching screen controller is equipped and man-machine interaction picture-displayer is offered.
- 4.In production, automatically splice non-woven fabric, dustless paper, perforated film, P.E. film and control material and get rid of waste products.
- 5.Set up alarm and stop machine automatically when breakdown takes place during production.
- 6.Main driving uses frequency conversion to regulate speed with high accuracy in driving. Lower and raise speed automatically when splicing material.
- 7.Automatic rectifying when material are input during production. (rectifier is selected and supplied by the user).

## Character And Structure

- 1.Programmable controller, main driving frequency converter, man-machine interface. Touching screen is of Japan "MITSUBISHI" Brand.
- 2.During production, jumbo roll adopts vacuum absorption conveyance to guarantee stability of material tension.
- 3.Fixed positions of each material are all equipped with electrical differential device, regulate relative positions without stopping machine.
- 4.Bearings in key positions are of Japanese NSK brand, conveyance belt is of Italy brand.
- 5.Driving system consists of close gear box, universal joint shaft coupling and arc-gear synchronous belt with good synchronization and stable driving.
- 6.Heating roller uses air cylinder to press, which will fall off automatically when stopping machine.
- 7.Reel axle is in fast expanding & tightening style, which is convenient and reliable in use.

## Technology Parameter

1. Production Speed: 600~750 pcs/min
- 2.Machine Power: 36 KW (380V 50Hz) (excluding glue machine)
- 3.Overall Size of Equipment (L x W x H m): 13 x 2.2 x 2.1
- 4.Weight of Equipment: about 12t



# Horizontal Fast-Easy Packing Woman Sanitary Pad machine (Model: 800)

## Brief Introduction Of Equipment

- 1.It is a high-speed equipment to produce napkin pad with dustless paper, fluffy non-woven fabric.
- 2.As per request, it can be equipped to produce sanitary napkin pad lining with SAP.
- 3.Horizontal cutting during production, 7~9 pcs per rotation.
- 4.Various types of material can be used, change in tension is small.
- 5.Mechanical components of processing part are advanced in design, high in production speed and also guarantee in rate of finished products.

## Character And Structure

- 1.During production, jumbo roll adopts vacuum absorption conveyance to guarantee stability of material tension.
- 2.Fixed input positions of each material are all equipped with electrical differential device, regulate relative positions without stopping machine.
- 3.Heating roller uses air cylinder to press, which will fall off automatically when stopping machine.
- 4.Airflow instantly opens and closes while rotate and absorb sanitary napkin pad to ensure products are absorbed under high-speed operation.
- 5.Product is put into outer package film after being corrected equidistance. Packing of products is trim and standard.
- 6.Driving system consists of close gear box, universal joint shaft coupling and arc-gear synchronous belt with good synchronization and stable driving.
- 7.Bearing, driving belt and electrical components are of domestic famous brands

## Technology Parameter

1. Production Speed: 600~700 pcs/min
- 2.Machine Power: 30 KW (380V 50Hz)  
(excluding glue machine)
- 3.Overall Size of Equipment (L x W x H m):  
8.5 x 1.8 x 1.8
- 4.Weight of Equipment: about 10t



# Automatic Three-Folding Woman Sanitary Napkin Pad Machine (Model: 450)

## Brief Introduction Of Equipment

- 1.It can produce dustless paper, fluffy non-woven fabric or three piece style sanitary napkin pad (As per request, it can be equipped to produce wood pulp sanitary napkin pad).
- 2.Independent packing type: Sanitary napkin pad after molded by main machine is becoming package type product after each structure of small package machine.
- 3.It can produce product without outer package by cutting off operation of small package machine.
- 4.Mechanical components of processing part are advanced in structure, high in production speed and assuring in rate of finished products.

## Character And Structure

- 1.During production, jumbo roll adopts vacuum absorption conveyance to guarantee stability of material tension.
- 2.Input fixed positions of each material are all equipped with electrical differential device, regulate relative positions without stopping machine.
- 3.Heating roller uses air cylinder to press, which falls off automatically when stopping machine.
- 4.Outer package film is advanced in packing design, which is suitable for the equipment to work under high-speed.

## Technology Parameter

1. Production Speed: 200~300 pcs/min
- 2.Machine Power: 30 KW (380V 50Hz) (excluding glue machine)
- 3.Overall Size of Equipment (L x W x H m): 9.5 x 2.2 x 2.02
- 4.Weight of Equipment: about 8t

\* As per request, it can be equipped with computer to materialize automatic controlling. Production speed is 350~400 pcs/min.



# Packing Machinery



# Automatic Handkerchief Packing Machine (Model: P55/110)

This is the automatic packing machinery of high quality standard and pocket type handkerchief tissue. It enjoys the features of fast speed, high efficiency, nice outlook and also avoiding the weakness of hand-make. It applies the frequency conversion timing control system, SIEMENS's PLC touching and program control system, automatic inspect servo tracking. At present it is the most advanced equipment in China and has achieved the international standard in this field. It is the most ideal equipment in the field of sanitary paper-manufacturing field.

Packing Size:                   A. Standard: 105 x 55 x 25mm;  
                                      B. Pocket: 75 x 55 x 25mm;

Material specification:        A. Standard: width 150mm;  
                                      B. Pocket: width 120mm;  
                                      C. Diameter: 300mm;  
                                      D. Black fixed position cursor.

Quantity of handkerchief tissues: 10 pieces;

Speed:                           70 - 80 bags/min;

Power:                           A. 1.5 kw (main motor);  
                                      B. 0.12 kw (transmission motor);

Air Pressure:                   0.5 kpa;

Heat up system:               two sides heat-sealing, side heat-sealing

Transmission system:        Controlled by frequency conversion timing system, each periodic fixed position is carrying out by the precision separate degree case and each component position co-operate with groups of cam;

Electric Controlling system:  SIEMENS' electric controlling system;

A. Advanced frequency conversion timing system;

B. PLC computer controlled each procedure;

C. Glossy magic-eye servo track packing-materials system;

D. Failure track and report system;

E. Interface touching-screen indicator and operation system;

F. PLC computer controlled automatic oil lubricant system;

G. Static removing equipment make the packing materials' transmission more stable.

Outlook Size:                   3000 x 2800 x 1900mm;



**Packing Machinery**

# Pulp & Paper Making Plant

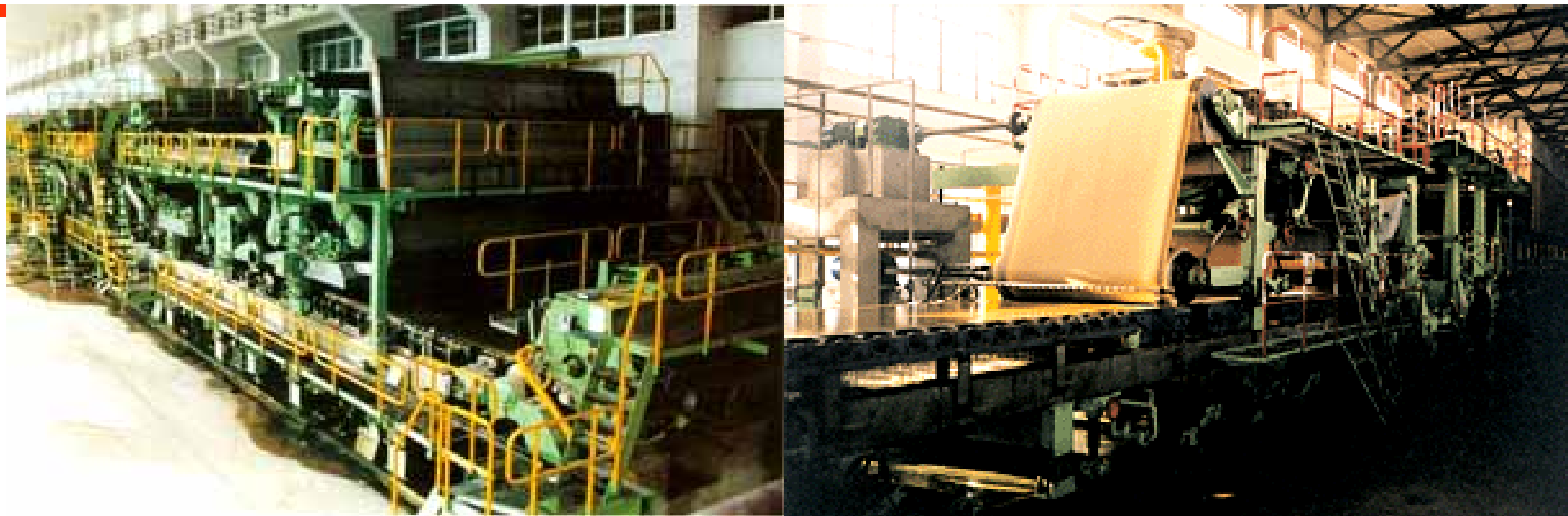


# Newsprint Paper Machine



Grade	Unit	newspaper
Basic Weight	g/m <sup>2</sup>	40-48
Trim Width	mm	3150; 3950; 4800; 5300;6200;7100
Working Speed	m/min	600- 1000
Design Speed	m/min	800- 1200
Normal Capacity	t/d	100- 450(500)
Drive System		D.C or A.C sectional drive system
Center Distance	mm	4300; 5250; 6150; 6900; 7600; 8700

# Board Paper Machine



Grade	Unit	newspaper
Basic Weight	g/m <sup>2</sup>	115-450
Trim Width	mm	3200; 4000; 5500; 6000; 7000
Working Speed	m/min	400 – 700
Design Speed	m/min	450 – 750
Normal Capacity	t/d	150 – 650
Drive System		D.C or A.C sectional drive system
Center Distance	mm	4500; 5250; 6800; 7500; 8500



# Tissue Paper Machine



Grade	Unit	newspaper
Basic Weight	g/m <sup>2</sup>	25—32
Trim Width	mm	2362-3200
Working Speed	m/min	200-500
Design Speed	m/min	550
Normal Capacity	t/d	25-40
Drive System		D.C or A.C sectional drive system
Center Distance	mm	3400—4500

# Offset Printing and L.W.C Paper Machine



Grade	Unit	newspaper
Basic Weight	g/m <sup>2</sup>	40-80
Trim Width	mm	3520; 4400; 5300; 6200; 7100(7920)
Working Speed	m/min	600 – 1000
Design Speed	m/min	800 – 1200
Normal Capacity	t/d	120 – 450 (500)
Drive System		D.C or A.C sectional drive system
Center Distance	mm	4300; 5750; 6650; 7800; 8550(9420)

# Paper Pulp Molding Production Line



# Paper Pulp Mold Tableware Production Line (Series 1-4)

## Product Characters

1. White and beautiful, no poison and smell, strong and easy for use.
2. Against water and oil, can be stored in refrigerator and baked in microwave oven.
3. Easy decompose and reclaimed without pollution.

## Equipment Characters

1. Suitable various raw materials: wood pulp, sugar cane pulp, reed pulp, orange stalk pulp.
2. May produce various kinds of tableware, such as meal box, meal bowl, dish, plate etc.
3. Automatically control engine, electric, air structure together. It's easy to operate and convenient to service.
4. High efficiency and energy saving with no waste gas, water or material in production.
5. Heat forming by power, oil or gas, suitable for different energy supply working fields.
6. User may choose various of models according to demand.

Equipment List (Annual yield 20 million meal box)



# Paper Pulp Mold Tableware Production Line (Series 1-4)

Typical Equipment List (Annual yield 20 million meal box)

Item	Name	Quantity
1	pulp crusher	2
2	dip-pulp barrel	2
3	agitator in pulp pool	2
4	4-set inject-pulp machine	6
5	2-seat heat pressing and forming machine	6
6	mould (4 sets)	12
7	cut-edge unit	3
8	disinfector	1
9	draw-pulp pump	2
10	inject pulp pump	1
11	cycled-pulp auto-absorb pump	1
12	clean-water pump	2
13	vacuum pump	1
14	air compressor	1
15	store-air tank	1
	The auxiliary equipment can be bought by customer or supplier on their behalf.	

# Services

- **Advanced and reliable technology & engineering**
- **Procurement, manufacture, and delivery of the goods**
- **Project management**
- **Construction, installation, and commissioning**
- **Technical service**
- **Training program**
- **Service after completion of the project**
- **Financing assistance and export credit**
- **Other services and functions upon request**

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