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Company INTRODUCTION

WUXI TENGYU MACHINERY AND TECHNOLOGY CO., LTD. is a large and experienced company production including rubber & plastic machinery, PU, PVC complete machine and LVT & SPC floor production line. Company complete area is about 30,000M2. We are large diaphysis corporation of China rubber & plastic industry, be provided with all kinds of fabrication and machining equipments. Our company has strong foundry, welding, heating treatment, metal cutting, electric control production capability, supply advanced measurement inspection instrument and integrated quality guarantee system. Our technical engineer team has strong design ability and abundant experience. We can design and manufacture the complete equipment and customised equipments.

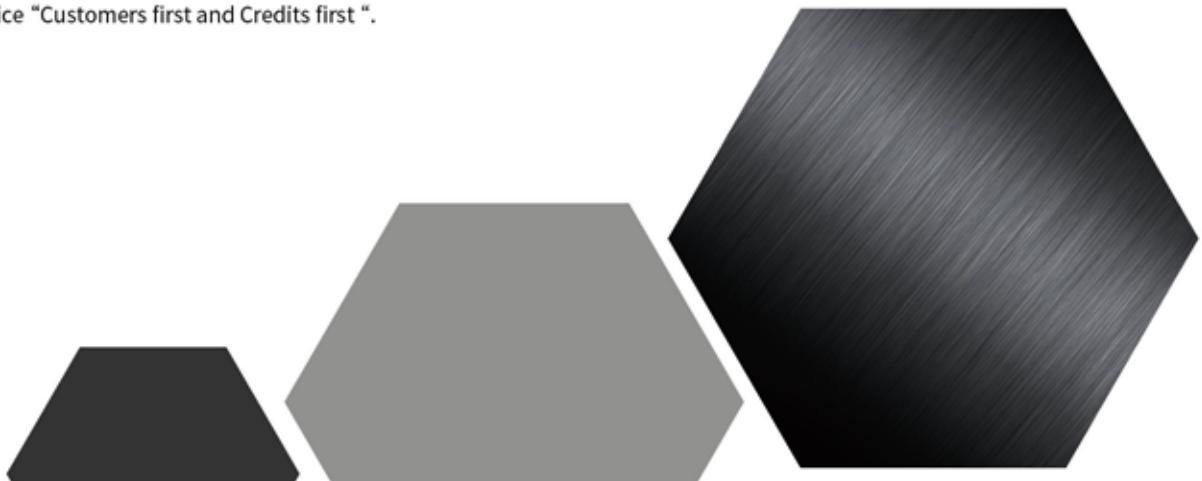
Our company mainly produce 6 series rubber & plastic industry, including mixing mill, calendar and auxiliary line, Internal mixer & kneader, batch-off machine, strainer & extruder, inner-tube splicer, vertical & horizontal type cutting machine and other tire manufacturing machinery. Our products not only sell in domestic market but also export to more than 30 countries including Asia, Europe, South America, etc. We have important export corporation in China on rubber & plastic industry. We are indebted strong support and esteem of a lot of domestic and foreign customer base including fortune 500 companies .

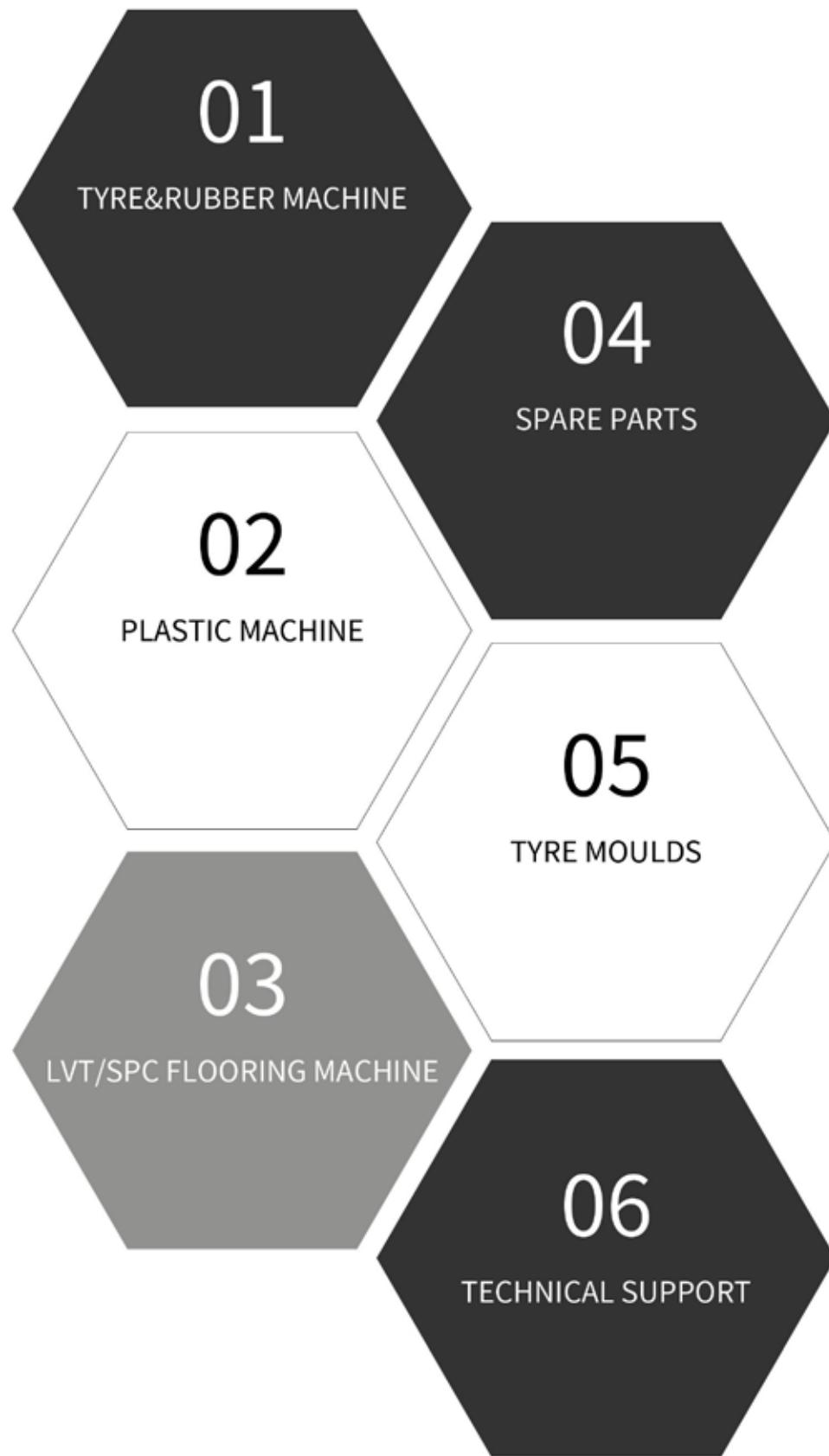
We have educated and trained a strong group of foreign trade professionals during the practices in the long years. This is a united and highly efficient contingent that is cooperating with many excellent enterprises for common development. We are ready to provide the most competitive products and services for the purpose of mutual benefits to our valuable customers.

Sincerely is the key of the culture of our enterprise, adhering to the principle of "Customer First". our corporation has firmly set up the administrative idea of "Top Quality and High Efficiency" and gradually upgraded the level of service, meeting the basic need of the customers and also their multi-plier requirement so we have taken rendering satisfaction to customers as a key measure of our corporation in meeting the need of the market, winning over customers, increasing our competitiveness in the market in order to ensure development of the enterprise. Our eternal endeavor in the management of enterprise is to let our customers satisfied. We shall further strengthen business ties with our partners and friends and forge ahead hand in hand for a common bright future.

It has flexible trade methods, rich experience and complete commercial soft-ware facilities and therefore is able and willing to provide our mass customers with quick and convenient services.

With our usual practice "Customers first and Credits first".





RUBBER (PLASTICS) INTERNAL MIXER

It is used for mixing and plasticating rubber or plastics.

CONSTRUCTION FEATURE

1. Inside of mixing chamber, drop door and float weight are designed with perimeter drilling type to be cooling (for the rubber) or heating (for the plastics). Rotor is bored sprinkling type for cooling (for the rubber) or heating (for the plastics) which lead to the best effect. For the 50L drop door, 50L and 80L float weight are bored type.
2. Inside of mixing chamber, rotor, float weight, drop door and contact surface of stock are being hardened to ensure sturdy and durable.
3. Rotors are equipped with rolling bearing to ascertain power economization and longer service life.
4. The hydraulic balance type (except 50L) of shaft seal in the rotor is adopted, specific pressure is consistent on the four sealing faces. The sealing effect is reliable, reaching both sealing and minimizing the wearing rate for the sealing ring.
5. Hydraulic driven drop door and locking device are adopted with plug board to maintain reliable sealing and quick opening and closing.
6. The imported advanced PC controller with "automatic" and "manual" operations is adopted in the electric system.

Main Technical Specification

Model		X(S)M-50×40	X(S)M-80×40	X(S)M-110×40	X(S)M-110×6~60
Total Volume of mixing chamber	L	50	80	110	110
Working capacity of mixing chamber	L	30	60	82.5	82.5
Rotating speed of rear rotor	r/min	40	40	40	6~60
Sped ratio of rotor		1:1.172	1:1.15	1:1.15	1:1.15
Pressure of compressed air	MPa	0.6~0.8	0.6~0.8	0.6~0.8	0.6~0.8
Compressed air consume	m ³ /h	20	30	60	60
Pressure of cooling water	MPa	0.3~0.4	0.3~0.4	0.3~0.4	0.3~0.4
Cooling water consume	m ³ /h	7~10	25	27~45	27~45
Steam pressure	MPa	≤0.8	0.5~0.8	0.5~0.8	0.5~0.8
Steam consume	m ³ /h	200	300	720	720
Power of driven motor	kw	95	210	240	450 DC
Overall dimension (L×W×H)	mm	5560×2700×3250	7000×2760×4500	6620×2640×4392	6620×2640×4300
Weight	t	14	24	24	24



Hydraulic balance type of shaft sealed rotor



Mixing chamber



Rotor

- Electrical control system adopts imported PLC, its advantages include easy modifying program, strong anti-interference ability, high reliability and energy saving etc, beside general PC functions it can communicate through Ethernet net and intelligent device. It has many control modes, such as time control, energy control, temp control and time-temp control etc. The formula can be stored according to users' requirements.
- On-site operation cabinets and electrical control cabinets adopt PLC communication, results in reduction of equipment troubles and installation cost.

Feature of hydraulic ram

- High ram pressure and wide pressure range. The pressure of ram against stock in mixing chamber can be up to 0.6Mpa, and can be adjusted freely.
- Ram's pressure can increase or decrease momentarily under heavy loading condition.

- Fast ram's pressure adjustment speed and fast ram's lift and fall down speeds.
- Cooling water pipe of ram exists in the middle of press bar, the lower pressure on pipe results in long service life and good cooling effect.
- Ram's oil cylinders are mounted on two sides of beam underside, so don't need climb up for maintenance and hydraulic oil will not enter into mixing chamber.
- Electrical system adopts BOSCH product of Germany, the pressure given signals and pressure sensor's feedback data combine a pressure close-loop control system, through determined transfer function adjustment (PID) to get a steady ram pressure and be able to improve stock quality.
- Without compressed air station, but every single equipment can work well, so the investment for air-compressed station is saved.

Main technical specification

Model		XM-160X30C	XM-160X(4-40)E	XM-250X20A	XM-270X(4-40)B	XM-270X(4-40)H	XM-370X(6-60)K	XM-370X(6-60)KY
Data		160	253	255(235)			425(395)	
Total volume of mixing chamber L		120 (0.75) (filling factor)	140 (0.55) (filling factor)	191(176) (0.75) (filling factor)			319(296) (0.75) (filling factor)	
Rear rotor speed r/min		30	4-40	20 (front rotor)	4-40/(6-60; 20/40)		6-60/(7-70)	
Rotor friction ratio		1:1.16		1:1.16	1:1.17	1:1	1:1.15	1:1
Unit pressure of ram against material MPa		0.36-0.49		0.36-0.46	0.4-0.5	0-0.6	0.30-0.42	0-0.6
Compressed air pressure (Pneumatic ram) Mpa		0.6-0.8		0.6-0.8	0.6-0.8	Hydraulic ram	0.5-0.7	Hydraulic ram
Consumption of compressed air m ³ /h		~70		~40	160-200		~350	
Cooling water pressure Mpa		0.3-0.4		0.2-0.4	0.3-0.4		0.3-0.4	
Water consumption m ³ /h		45		23	Main machine 80 Motor 20		Main machine 110 Motor 2 × 20	
Main motor: Power kW		355	500	240	1250(1500; 1000)		2 × 1250(2 × 1500)	
Speed r/min		740	1000	985	100-1000		1000	
Voltage V		6000 (AC)	440 (DC)	380 (AC)	750 (DC)		750 (DC)	
Outside dimension (L × W × H) mm		8000 × 3250 × 5180	8000 × 3330 × 5260	7100 × 3905 × 4953	8690 × 4320 × 5680	8690 × 4320 × 6160	10770 × 4960 × 7400	
Weight(Except for electrical part) t		~37	~39	~35	~50		~76	
Discharging type		Drop door discharging	Slide discharging	Drop door discharging	Drop door discharging		Drop door discharging	
Locking device		Toggle lock		Toggle lock	Toggle lock		Toggle lock	
Cooling type of mixing chamber		Drilling holes cooling	Jacket cooling	Drilling holes cooling	Drilling holes cooling		Drilling holes cooling	
Standard rotor		Two-wing rotor	Two-wing rotor	SG-type (optional SB-type, TB-type, SZ-type)	SG-type (optional TB-type, LS-type)			

KNEADER

It is mainly used for mixing and plasticating rubber or plastics with ingredients as well as mixing some kinds of rubber and plastics together.

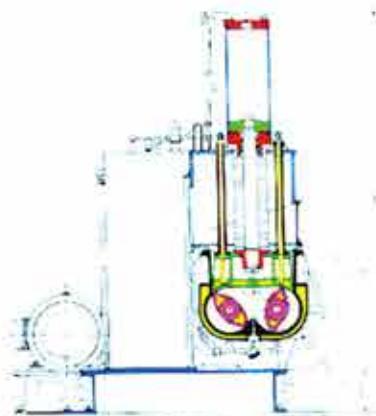
FEATURES IN CONSTRUCTION

1. Discharge is achieved through the tilting mixing chamber with the tilting angle about 140°.
2. The type of rotor is similar to Banbury type and the edge is cored, which can be cooled by water or heated by steam. The top of the rotor is piled welding hard alloy and the working surface is plated hard chrome so it can attain a better wear-resistance, corrosion-resistance, and longer life and higher thermo-conductivity.
3. The mixing chamber and the upper ram used the jacket structure, which can be cooled by water or heated by steam. The bottom of mixing chamber is installed with a measuring temperature thermocouple to monitor the temperature so to ensure the mixing quality.
4. The end-face seal of rotors are adjustable. The solid anti-friction agents are inlaid in the bronze alloy contacts with the alloy ring, therefore it does not need the lubricating oil and has a longer service life.
5. The bearing of rotors are rolling bearing which has a less power consumption, lower noise and longer life.
6. All the surfaces contacting with the compounds including the ram, the mixing chamber and the rotor etc., are plated with the hard chrome, which makes them more wear-resisting, corrosion-resisting and easier to clean.
7. The imported advanced PC controller is adopted in the electric system. It has "automatic" and "manual" two different operation methods. It is very accurate in control and simple in maintenance.

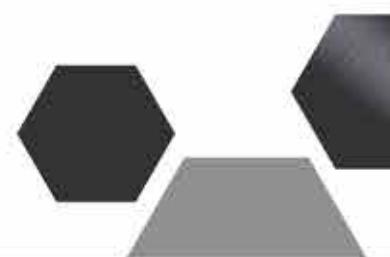
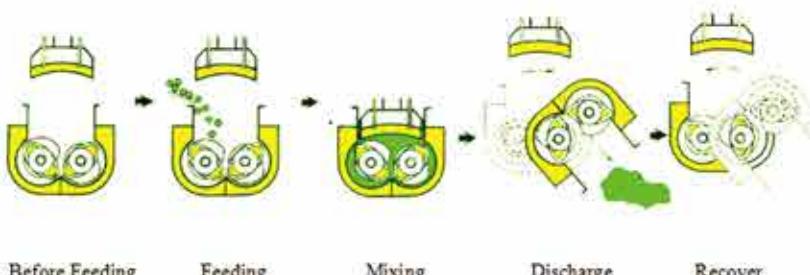
Main technical specification

Model	New	X(S)N-110×30
	Old	X(S)N-110/30
Kneading total volume of mixing chamber	L	250
Effective volume of mixing chamber	L	110
Rotor revolution (Front / Rear)	r/min	30 / 24.5
Power of driven motor	kW	185
Pressure of compressed air	MPa	0.6 ~ 0.8
Power of tilting motor	kW	4
Tilting angle of mixing chamber		140°
Pressure of cooling water (Rubber mixing)	MPa	0.2 ~ 0.4
Heating steam pressure (Plastics mixing)	MPa	0.4 ~ 0.8
Main Motor Power Voltage	Kw V	185 380
Tilting Motor Power Voltage	Kw V	4 380

Side section



Operation Order



OPEN MILL

It is used in rubber and plastics mixing, warming mixing, sheeting mixing, etc.

[Features]

1. Roll is made of alloy chilled cast iron, which has high rigidity and good wearable.
2. Temperature control adopts TCU, so temperature control is fast and accurate, and assure the quality of mixing rubber.
3. Configure and select machine type according to request.



Specification /type	Roll diameter xLength (mm)	Linear speed of front (m/min)	Roll friction ratio	Batch volume (kg)	Motor power (KW)	Max.nip adjusting (mm)	Overall dimension (LxWxH) (mm)	Weight (t)
X(S)K-610	610x1830	28.7	1:1.25	90-120	160	15	6750x3040x1743	35
XKY-660	660x2130	32.45	1:1.09	165	185	15	7450x3660x2080	45
XKR-660	660x2130	28.60	1:1.24	165	250	15	7465x3660x2080	45.6
X(S)K-710	710x2200	31.90	1:1.09	350	280	15	7108x3805x3015	50
X(S)K-760	760x2540	33.23	1:1.09	350	315	15	7108x3805x3015	58
X(S)K-810	810x2540	31.90	1:1.09	350	355	15	7108x3805x3015	68



Specification /type	Roll diameter xLength (mm)	Front roll liner speed (m/min)	Speed ratio	Capacity (kg/h)	Motor power (KW)	Overall dimension (LxWxH) (mm)	Weight (t)
XKJ400	400x500	24.5	1:1.7	200	45	3520x1710x1850	7.7
XKJ450	450x600	25	1:1.7	230	55	4600x1920x1870	11
XKJ480	610/480x800	25.6	1:1.815	250	75	5610x2450x2000	19
XKF480	610/480x800	25.6	1:1.55	250	75	5610x2450x2000	19

TWIN SCREW ROLLER-DIE EXTRUDER

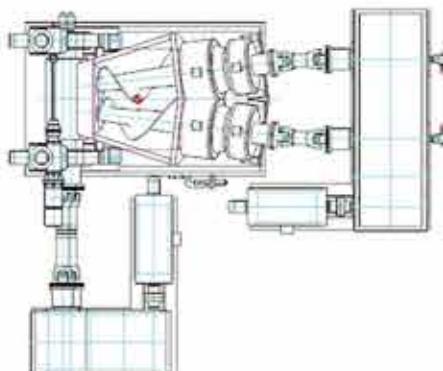
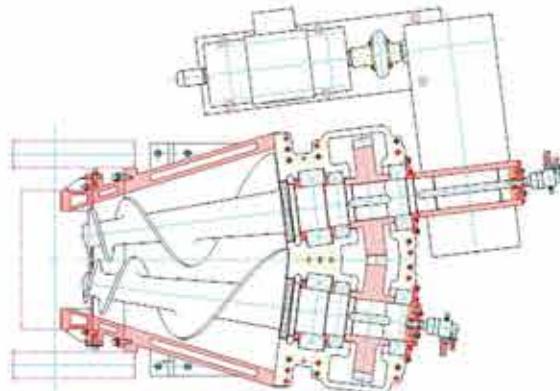
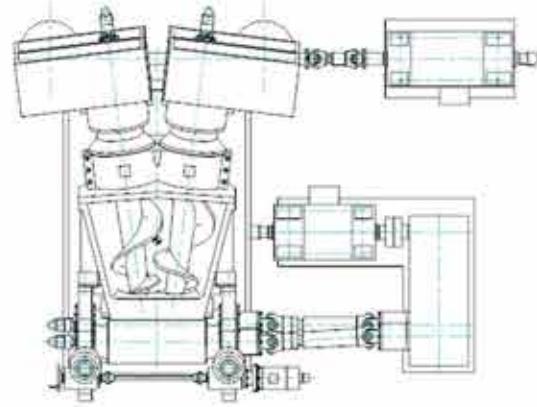
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FEATURES IN CONSTRUCTION

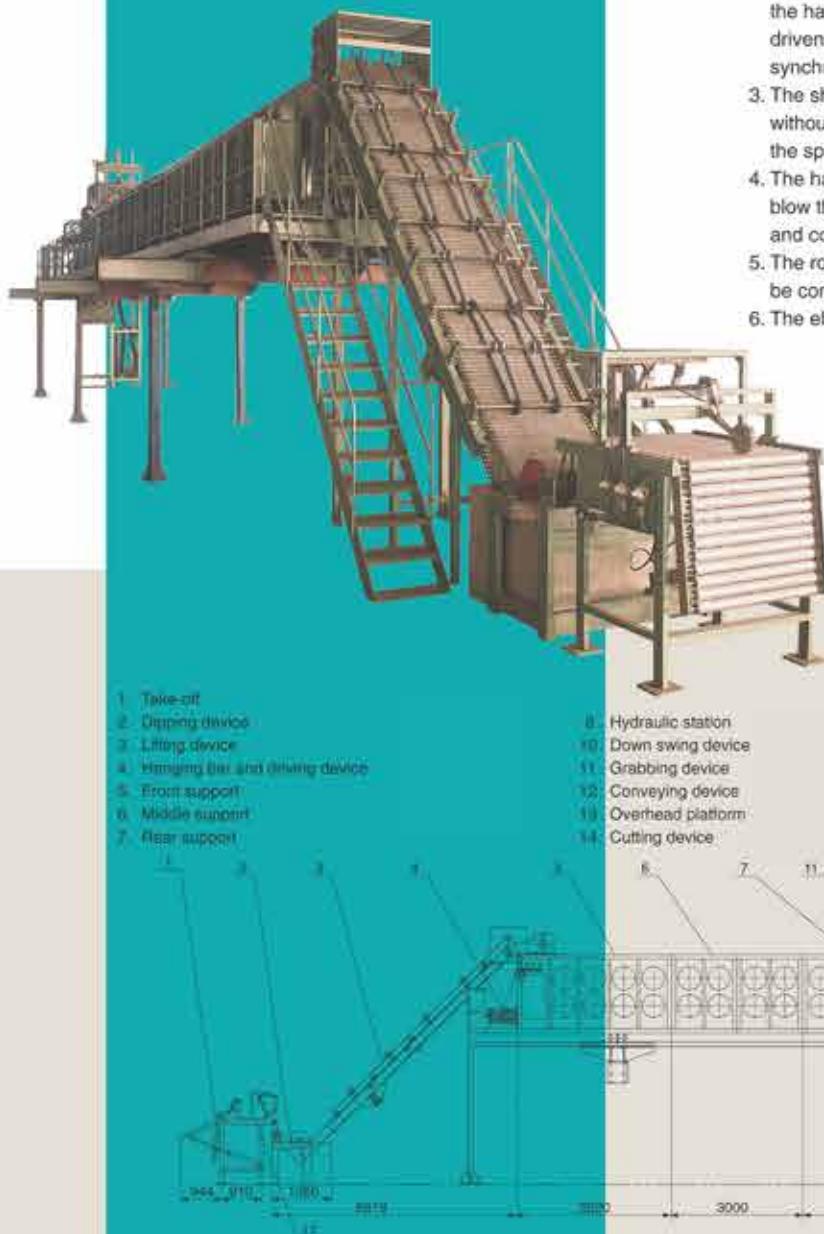
1. Discharge is achieved through the tilting mixing chamber with the tilting angle about 140°.
2. The type of rotor is similar to Banbury type and the edge is cored, which can be cooled by water or heated by steam. The top of the rotor is piled welding hard alloy and the working surface is plated hard chrome so it can attain a better wear-resistance.

Twin Screw Roller-Die Extruder Technical Data

Item	XJY-150	XJY-210	XJY-330	XJY-450
(mm) Screw diameter	Φ150×400	Φ210×470	Φ300×743	Φ418×936
(mm) Screw working length	810	1000	1206	1475
Structure	Single head, bipyramidal, non-isometric, non-bathymetric, convergent			
(r/min) Screw rotating speed	2.0~20	2.0~20	2.0~20	2.8~28
Main reducer	Hard tooth surface reducer			
(kw) Extruder motor power	22	45	132	200
(mm) Roller dia/length	Φ360×720	Φ400×800	Φ450×1000	Φ510×1085
(mm/min) Roller linear speed	5~12	3~30	3.5~35	4.4~44
(mm) Sheet thickness	3~10	3~10	3~10	3~10
(mm) Sheet width	500	550	700	800
(kw) Sheeter motor power	11	37	132	200
Reducer	Hard tooth surface reducer			
Capacity	2960	4500	9000	12000



BATCH-OFF COOLER

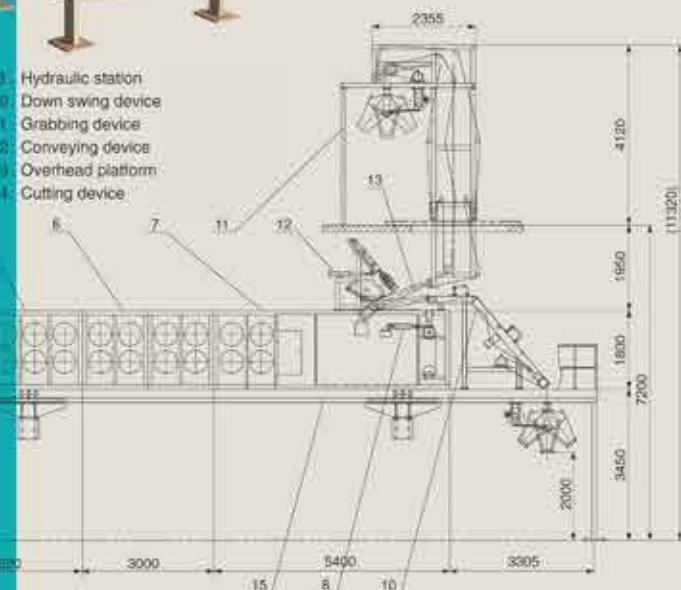


Application:

It is coupled with internal mixer, rubber roll-head extruder or rubber sheeting mill. The plasticated stock, masterbatch and final stock from the internal mixer are calendered into sheet via the rubber roll-head extruder or rubber sheeting mill. The sheet is dipped, cooled and dried, then continuously swing and piled up in the batch-off cooler.

Construction features:

1. The take-off adopts steel conveying rollers, equipped with printer and slitter. The take-off and lifting device are driven by a common AC inverter motor. The conveying speed is adjustable.
2. There are two types of hanging bar driving devices. For XPG(III)-900, when the piston bars of two side oil cylinders extend, they push the hanging bar. The one way bearing keeps the hanging bar standing when the oil cylinder piston bar retracts, therefore the hanging bar carry out intermittent movement. Other one is driven by one AC inverter motor. The speed of hanging bar is synchronous with the take-off and lifting device.
3. The sheet is uniformly coated with the lubricator by dipping without polluting the environment. Its cooling effect is better than the spraying.
4. The hanging up area is fully closed, which adopts the blower to blow the sheet at a slant. So it improves the air flowing direction and cooling effect.
5. The robot in the take-off is advanced in China. The take-off can be controlled automatically.
6. The electric control system adopts a reliable and automatic PC.



Notes:

A. The machine can be designed as a floored construction or an over-head construction. The sheet can be output on the first floor or on the second floor or both the first floor and the second floor.

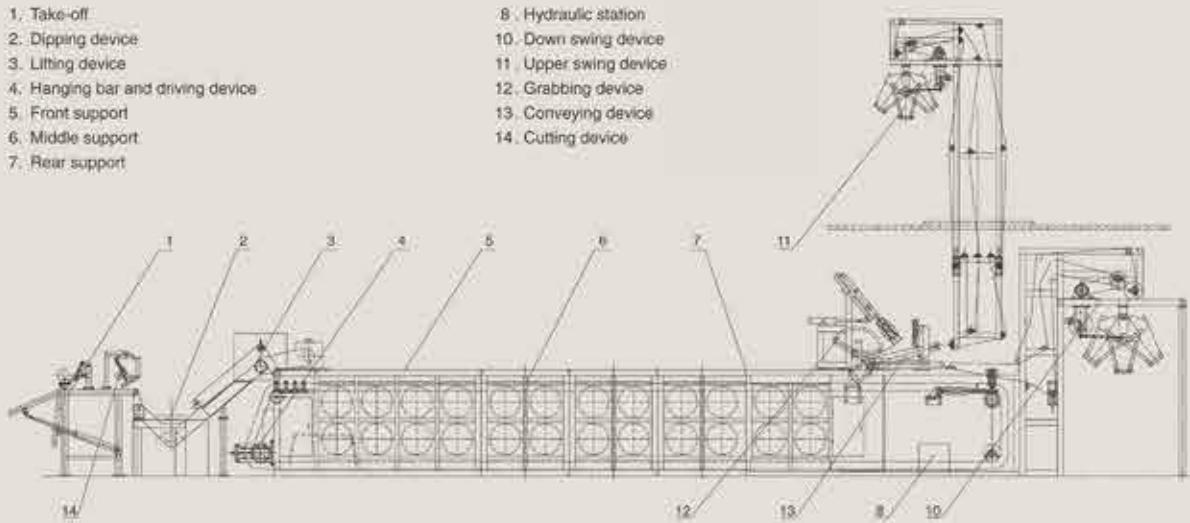
B. The batch-off cooler is a combined construction. Customer can add or reduce the middle support as required.

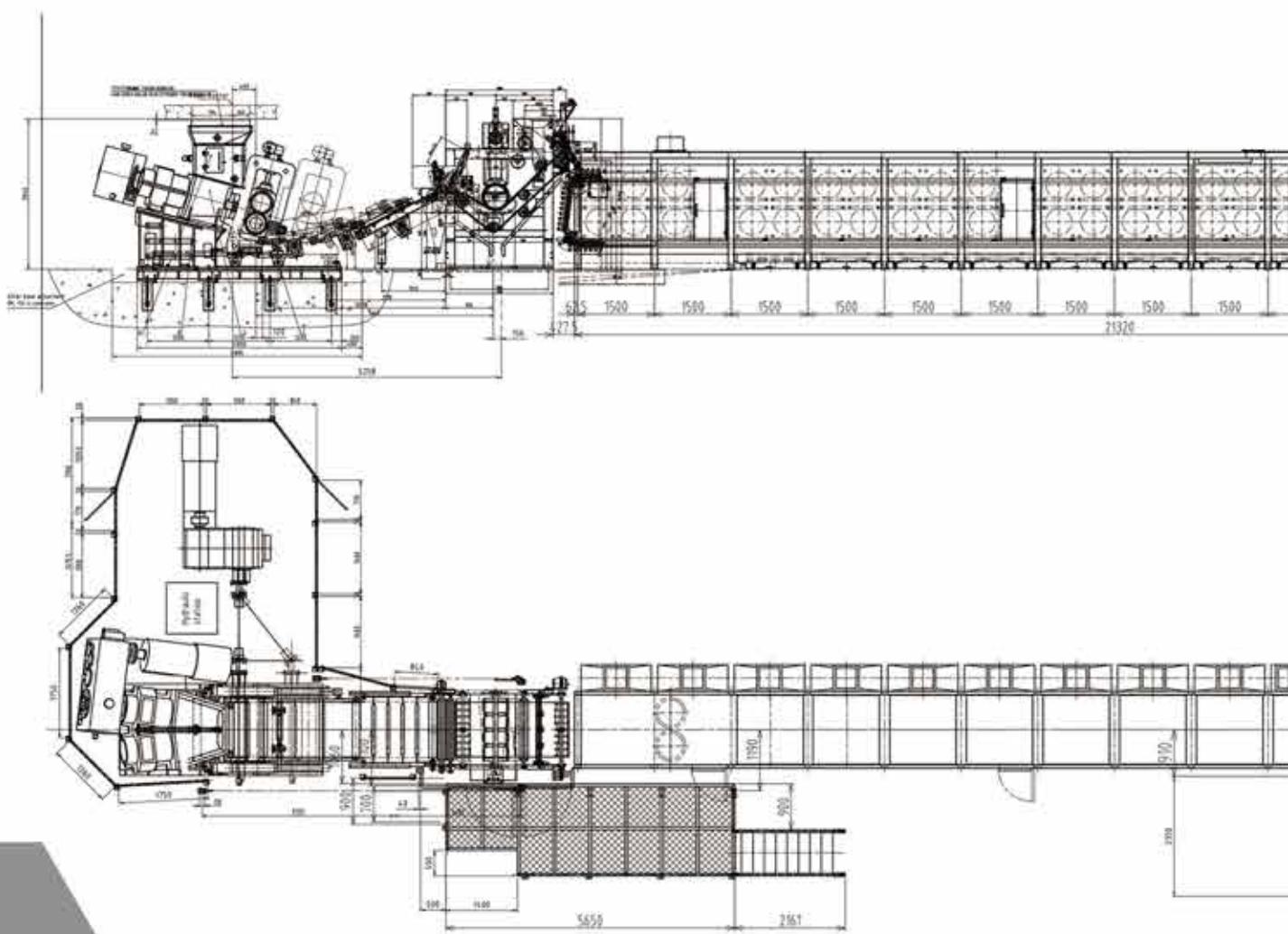
C. Customer can select the transverse strip cutter and the strip slitter according to the processing requirements.

MAIN TECHNICAL DATA:

Max. width of the sheet	900	mm
Thickness of the rubber sheet	6-12	mm
Conveying speed	4-40	m/min
Distance between the hanging bars effective	152.4	mm
Number of functional hanging sheetbar	70-90	pcs
Max. pendant length of hanging sheet	1400	mm
Number of cooling fans	18-26	sets
Temperature over room temperature after rubber sheet cooling	5	°C
Swing sheet length	1~1.3	m
Compressed air pressure	0.5-0.7	MPa
Total capacity of power supply	18-34	kW

1. Take-off
 2. Dipping device
 3. Lifting device
 4. Hanging bar and driving device
 5. Front support
 6. Middle support
 7. Rear support
 8. Hydraulic station
 9. Down swing device
 10. Upper swing device
 11. Grabbing device
 12. Conveying device
 13. Cutting device

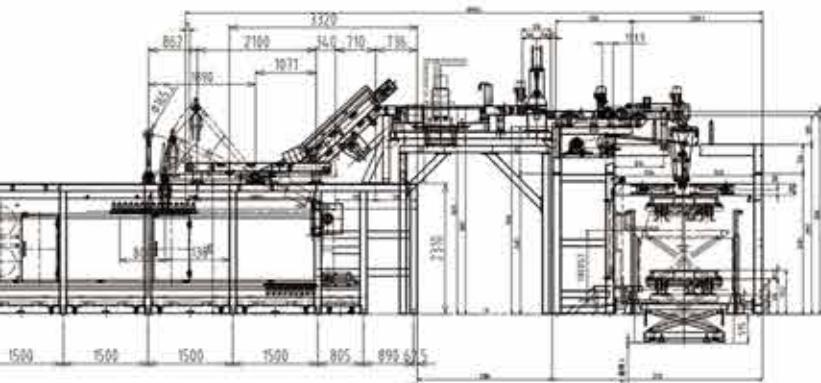




BATCH-OFF COOLER

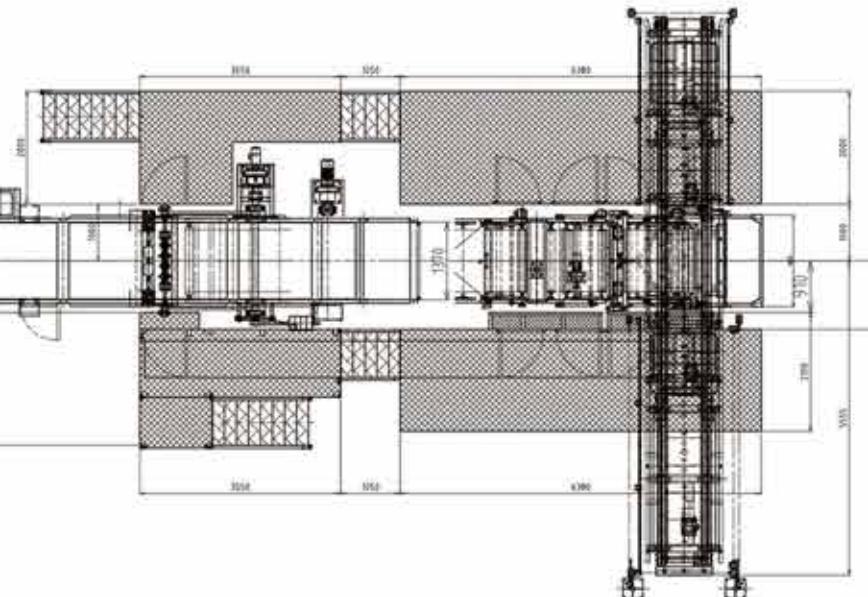
This line will be mixed refine glue and refining rubber pressure out of the rubber sheet coating isolation agent, cooling and laminated to deposit.

Structure: The rubber sheet cooling line for overhead structure, rack vertical return, forced air cooling. The batch-off cooling machine can be equipped with automatic pendulum glue, automatic laminated, weighing cutting, such as automatic sampling configuration



Main technical parameters:

1.Max width of rubber sheet:	900mm
2.Thickness of rubber sheet:	6-12mm
3.Max distance of rubber hanging:	1200mm
4.Linear speed of take-in conveyer belt:	5-40m/min
5.Discharge method:	ground floor
6.Conveying mode of conveyor chain:	Motor drive
7.Space between rubberizing rods:	100mm
8.Effective number of rubberizing rod:	167
9.Rubber sheet swing range:	900-1050mm
10.Air flow:	35x5150m/h
11.Volum of separant reservoir:	1000L
12.Volum of trip tank:	1000L
13.Load cell:	1.5T



CALENDER LINE

The calender is mainly used for single-face and double -face fabric cord rubberizing function, canvas and other woven material, sheeting rubber stock , thin rubber sheet of inner liner and airtight layer of the radial tire.

Structures features

- 1.Roll is made of chilled hard alloy iron , through finish machining, with smooth and wearable surface, drilled roller and having good heating and cooling effects.
- 2.For increasing calendering accuracy, set preloading device, axis cross device and pre-bending device, etc.
- 3.Single motor drives each calendering roll, friction ratio of which can be regulated by pulling key so as to meeting different processes.



Type	Roller Dia x Length (mm)	Mid-roller liner Speed (mm/min)	Calender Max products width (mm)	Motor power (KW)	Overall dimension (LxWxH) (mm)
XY-4F1120	360x1120	7-21	900	55	6040x2100x1625
XY-4F1400	400x1400	8.8-26.39	1200	75	6350x21850x2490
XY-4F1600	560x1600	3.5-30	1400	144	6270x2960x4100
XY-4F1730	610x1730	5.4-54	1500	160	6040x2100x1625
XY-4F1830	610x1830	6-60	1600	67x4	6750x3040x1743
XY-4S1220	400x1220	3-30	700	22x4	5528x3300x3600
XY-4S1250	450x1250	3.5-35	800	37x4	6025x3300x3800
XY-4S1250	510x1250	3.5-35	800	37x4	6025x3300x3800
XY-4S1730	610x1730	5-50	1500	75x2.90x2	8010x4738x4837
XY-4S2030	660x2030	5-50	1800	110x4	8850x5090x5210
XY-4S2300	710x2300	5-50	2000	132x4	8850x5050x5210
XY-4S2500	760x2500	5-50	2200	160x4	12280x6500x5900
XY-4S3400	900x3400	5-50	3100	200x4	17000x8630x9350

COLD FEED EXTRUDER

The extruder series can be classified as cold feed and hot feed by rubber supplied; normal and vented by rubber application. The Pin Barrel Cold Feed Extruder can extrude and shape rubber under ambient temperature. With different heads, it can be used for producing rubber tube, various parts of tire, rubber coating for cable or wire, various rubber sealing members and winding strip for OTR treads etc.

MAIN TECHNICAL SPECIFICATION

Model	XJD 65*120	XJD 80*120	XJD 90*120	XJD 100*120	XJD 120*140	XJD 120*160	XJD 130*160	XJD 150*160	XJD 200*120	XJD 200*160	XJD 250*120	XJD 250*160	
(mm) Diameter of screw	65	90	90	120	120	120	130	150	200	200	250	250	
(L/D) Ratio	12	12	14	12	14	16	12	16	12	18	12	18	
(r/min) Speed of screw	7~70	8~60	8~60	5.5~55	5.5~55	5~50	4.4~44	4.4~44	3~30	3~30	2.2~22	2.6~26	
Bar quantity of pins/Bar quantity of each bar	8*8	8*8	8*8	8*8	10*8	12*8	8*8	12*8	10*10	12*10	10*12	10*10	
Power of main motor	300 Power	22	45	55	75	90	90~110	180	185	220	315	450	500
	6000 Speed	1470	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1000
	(V) Voltage	440(D/C)											
Ratio of v.v. pump	300 Power	0.37	0.37	0.37	0.55	0.55	0.55	0.75	0.75	1.1	1.1	1.5	1.5
	6000 Speed	1390	1390	1390	1390	1390	1390	1390	1390	1400	1400	1400	1400
	(V) Voltage	380											
(KW) Power for hot water heating	18	24	24	36	40	42	42	48	48	54	68	68	
	(kg/h) Production capacity	~150	~350	~350	~750	~750	~850	~1500	~1800	~2400	~2500	~3500	~3800



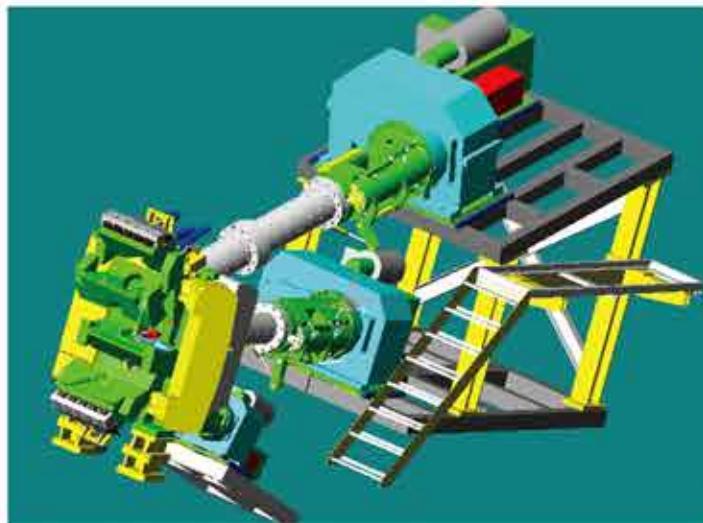
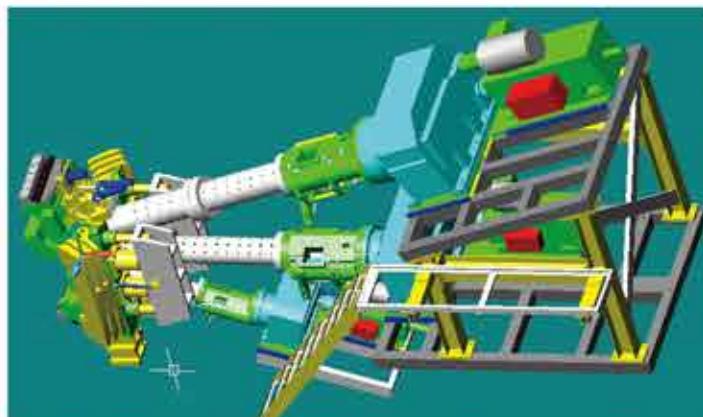
COMPLEX EXTRUDER

The complex extruder can be divided into Duplex Extruder, Triplex Extruder etc. With different heads, the complex extruder can be used for extruding tread, sidewall, cushion sheet of tire, sealing members, hose, etc. by different kinds of rubber.



Duplex extruder main technical data

Model	XJF60/80	XJF60/90	XJF90/120	XJF90/150	XJF120/150	XJF150/200	XJF150/250	XJF200/250	XJF200H/150	XJF250H/150
(mm) Diameter of screw	60/60	60/90	90/120	90/150	120/150	150/200	150/250	200/250	200(taper)/150	250(taper)/150
(LD Ratio)	12/12	12/12	12/14	12/16	14/16	16/18	16/18	18/18	8/16	8/16
(r/min) Speed of screw	80/80	80/60	60/50	60/45	50/45	45/33	45/26	33/26	45/45	40/45
Okw Power of Main motor	22/22	22/55	55/110	55/185	110/185	185/355	185/450	355/450	185/200	200/200
(Kg/h) Production capacity	180-250	450-1350	1000-1200	1200-1800	1500-2200	2500-3500	3500-4000	4500-5000	3300-3800	4500-5000



CURING PRESS

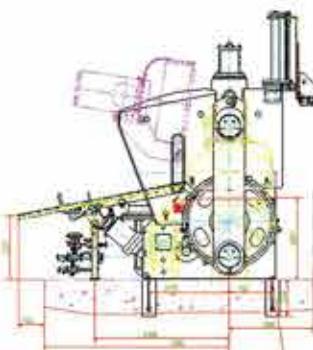
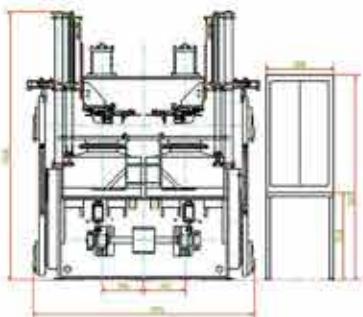
Rubber and Tire curing press is mainly for tire curing function, according to different tire type, it including: Bicycle and motorcycle curing press, PCR and TBR mechanical and hydraulic tire curing press, OTR tire curing press and Solid tire platen type curing press. We also produce the curing press assistant equipment, like: PCI unit and green tire feed machine.

N O	Specifications	42"	45"	48"	52"	55"	65"	68"
1	Number of cavity	Dual mode						
2	Applicable mold type	The two halves of die and mould						
3	Application of wheel diameter	12" - 16"	12" - 17"	13" - 18" or 14" - 20"	15" - 22" or 18" - 24"	20" - 26"	19.5" - 24.5"	19.5" - 24.5"
4	Effective diameter of hot plate	ø1110mm	ø1160mm	ø1220mm	ø1350mm	ø1400mm	1650mm	1720mm
5	Maximum clamping force	2×1400kN	2×1800kN	2×1800kN	2×2350kN	2×2350kN	2×450kN	2×5000kN
6	Applicable mold height range	250 - 450mm	250 - 450mm	250 - 490mm	250 - 540mm	250 - 540mm	400 - 650mm	400 - 720mm
7	Mould stroke of the piston rod	300mm	300mm	300mm	330mm	330mm	500mm	500mm
8	Maximum height of birth	400mm	500mm	500mm	540mm	540mm	550mm	550mm
9	BEAD height (tire width)	100 - 300mm	100 - 320mm	100 - 320mm	140 - 320mm	180 - 350mm	400mm	400mm
10	Maximum diameter of vulcanized tire	700mm	800mm	850mm/900mm	900mm/950mm	950mm	1275mm	1275mm



CURING PRESS

Press assemble layout as shown as below:



Press description:

1. Suitable for BOM type bladder
2. Segmental mould operation available
3. Center alignment for press driving system to provide good press Geometry and avoid the top beam floating.
4. Left& right driving parts are machining together to make sure press stable performance.
5. Top beam movement can provide tilt-back type as well as slid back type.

Vertical Chuck Loader(VCL)



Unloader



Segmental mold operating unit

Center mechanism



Curing Chamber



TYRE BUILDING MACHINE

Tire building machine is mainly for different tire shaping function, including: motorcycle tire building machine, PCR and TBR tire building machine, AGR tire building machine and OTR tire building machine. According to different technical processing, it can be classified as TBR and OTR bias tire building machine, two stage PCR tire building machine, three drum unit stage TBR tire building machine, etc.



AUXILIARY AND ASSISTANT MACHINE

During rubber and tire production processing, it also need some auxiliary and assistant machine, like: apex fitting machine, bead wire rubber coating & winding line, 0-90 degree bias cutter, Automatic white sidewall grinding machine, rubber bale cutter, rubberizing fabric sheet slitter machine, green tire painting machine, etc.



CONVEYER BELT MACHINE

It mainly use on steel and fabric conveyor belt building and curing function.

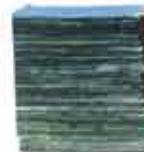
Structure:

- 1-Platen machine type, stable performance, advanced technology
- 2-Available big size: 2800*16600mm
- 3-Creel structure with patent, uniform stretching force, intelligent steel let off,etc.
- 4-design of steel cord tension cylinder, stable performance, convenient maintenance



RECYCLING RUBBER PRODUCTION LINE

1. This production line can process various radial tires (excluding OTR, mainly for TBR and PCR) with low energy consumption - power consumption, automatic, less labor power.
2. The bead is separated from the tire completely, which has high efficiency. The bead wire bunch is complete. The equipment runs reliably and is easy to operate and repair.
3. The Tyre Shredder is used to cut tires which have separated from steel wire sheaves and bead with high efficiency and lower power consumption.
4. The Roller Screening Machine is suitable for separating various rubber blocks that come from the tire Shredder.
5. The Steel Wire Separator is used to separate the steel wires from particle after cutting, high efficiency (500kg/h, the output is less than 2 Mesh, and 20% percent is 20 Mesh) equipped with combined magnet selector.
6. Process of cracker mill is treated by screw breaking system, It has such characteristics as small volume, high production efficiency, lower power consumption, simple operation, easy maintenance, and low cost of operation etc.
7. Refining Mill is Process the granule to powder by grinder disc with high-speed cutting and normal temperature. Its structure is in-fashion; compact; better sealing property and simple operation.
8. Steel Wire Cleaner is improved from the two-roll Cracking Mill, rolls are made of cast steel, processed with build-up welding and resistant alloy by special techniques. Rolls can be repaired by welding and then re-operation many times.
9. The control system for that production line, either normal control or computer automatic control, is available according to the needs of the users.

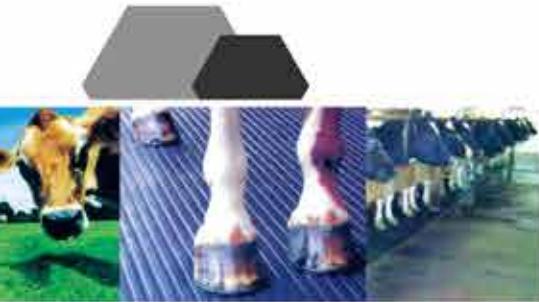


RECYCLING RUBBER APPLICATION



Reclaimed Rubber

Reclaimed rubber that has scrap tire as raw materials.
It is suitable for making tire, hose, footwear etc.

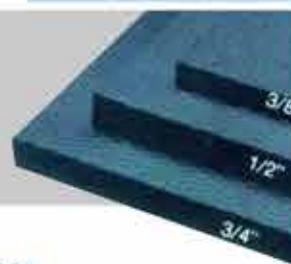


Interlocked wedge shape mat provides comfort and traction for cows.

Waterproof

Good water stopping performance, which is applied to the waterproof of high constructions, tunnels, ice roads and all kinds of under-ground projects.

Item	Thickness	Width	Length	Color
Parameter	1.0-2.0 (mm)	1000-2000 (mm)	Over 20 (m)	Black or colour



Stable Mat

Available size: 1220x1830mm

1220x2135mm

1525x2135mm

Thickness:12mm-19mm

Color:Black only

Rubberized Asphalt



Rubber Tile

Material: Rubber grains, rubber silk or thread of old tires.

This products are safe and environmentally friendly, with comfortable feeling.

Noise absorb-
sorbing

Minimum in-

easy to install

Water permea-
bility

Usage: Widely used in parks pleasure ground,
home yards,

kinder garden and sport flooring etc.

Specification: 500x500x5mm

500x500x25mm

150x150x25mm

PLASTIC CALENDER LINE



Specification /type	Roll diameter xLength (mm)	Middle roll liner speed (m/min)	Min. thickness of the product (mm)	calendering width (mm)	Motor power (KW)	Overall dimension (LxWxH) (mm)	Weight (t)
SY-4Γ1120	360x1120	2.3-23	0.05-0.5	900	18.3/55	6100x1660x2330	13
SY-4Γ1400	400x1400	2.8-28	0.05-0.5	1200	25/75	6350x1850x2490	18
SY-4Γ1730	560x1730	5-50	0.05-0.5	1500	30x2 55x2	5050x1920x1870	45
SY-4Γ1830	610x1830	6-60	0.05-0.5	1600	55x2 37x2	5830x2300x2000	64
SY-4Γ1900	610x1900	6-60	0.05-0.5	1650	55x2 37x2	6040x2100x1625	65
SY-4Γ2030	610x2030	6-60	0.05-0.5	1680	55x2 37x2	6750x3040x1743	70
SY-4Γ2300	660x2300	7-70	0.05-0.5	1900	67x2 81x2	7450x3660x2080	80
SY-4Γ2600	710x2600	7-70	0.05-0.5	2200	81x2 90x2	7465x3660x2080	90
SY-4Γ2800	760x2800	7-70	0.05-0.5	2400	90x2 110x2	8879x4130x2270	110
SY-4Γ3000	810x3000	7-70	0.05-0.5	2550	110x2 132x2	9780x4250x2430	120
SY-4Γ3800	863x3800	7-70	0.05-0.5	3400	110x2 160x2	11860x4182x6155	135

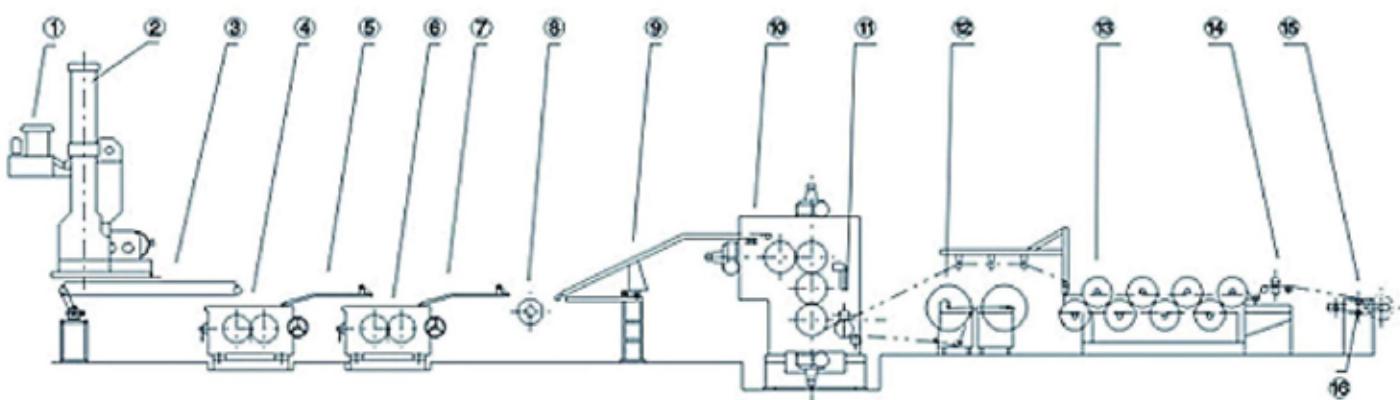
PVC ARTIFICIAL LEATHER PRODUCTION LINE

[Application]

It is used to produce sofa leather, nylon tape, waterproof cloth, luggage leather, clothing leather and etc.

[Features]

1. The rollers are drilled roll with hot-grinded, single motor single transmission with a stable and adjustment speed work. The machine use roller bearings which can bear high temperature. Sealing type is labyrinth.
2. The film can infinite extend, with a high work speed, high produce capacity, good quality and uniform thickness.
3. The main machine has roll crossing, preloading and adjustment speed can be adjust, the electric parts has PLC control.



① High speed mixer	⑤ Conveyor	⑨ Conveyor	⑬ Cooling device
② Internal mixer	⑥ Mill	⑩ Four roll calender	⑭ Edge cutting device
③ Conveyor	⑦ Conveyor	⑪ Emboss device	⑮ Welding device
④ Mill	⑧ Strainer	⑫ Cloth putting frame	⑯ Double working station winder

PVC FILM CALENDER LINE



Specification /type	Roll diameter xLength (mm)	Middle roll liner speed (m/min)	Min. thickness of the product (mm)	calendering width (mm)	Motor power (KW)	Overall dimension (LxWxH) (mm)	Weight (t)
SY-4Γ1120	360x1120	2.3-23	0.05-0.5	900	55	6100x1660x2330	13
SY-4Γ1400	400x1400	2.8-28	0.05-0.5	1200	75	6350x1850x2490	18
SY-4Γ1500	400x1500	2.8-28	0.05-0.5	1300	75	6350x1850x3190	22
SY-4Γ1450	450x1450	4-40	0.05-0.5	1200	22x2 30x2	6176x2140x3340	25
SY-4Γ1650	510x1650	5-50	0.05-0.5	1500	30x2 45x2	4380x1710x1880	30
SY-4Γ1730	560x1730	5-50	0.05-0.5	1500	30x2 55x2	5050x1920x1870	45
SY-4Γ1830	610x1830	6-60	0.05-0.5	1600	55x2 37x2	5830x2300x2000	64
SY-4Γ1900	610x1900	6-60	0.05-0.5	1650	55x2 37x2	6040x2100x1625	65
SY-4Γ2030	610x2030	6-60	0.05-0.5	1680	55x2 37x2	6750x3040x1743	70
SY-4Γ2300	660x2300	7-70	0.05-0.5	1900	67x2 81x2	7450x3660x2080	80
SY-4Γ2600	710x2600	7-70	0.05-0.5	2200	81x2 90x2	7465x3660x2080	90
SY-4Γ2800	760x2800	7-70	0.05-0.5	2400	90x2 110x2	8879x4130x2270	110
SY-4Γ3000	810x3000	7-70	0.1-0.5	2550	110x2 132x2	9780x4250x2430	120
SY-4Γ3800	863x3800	7-70	0.1-0.5	3400	110x2 160x2	11860x4182x6155	135

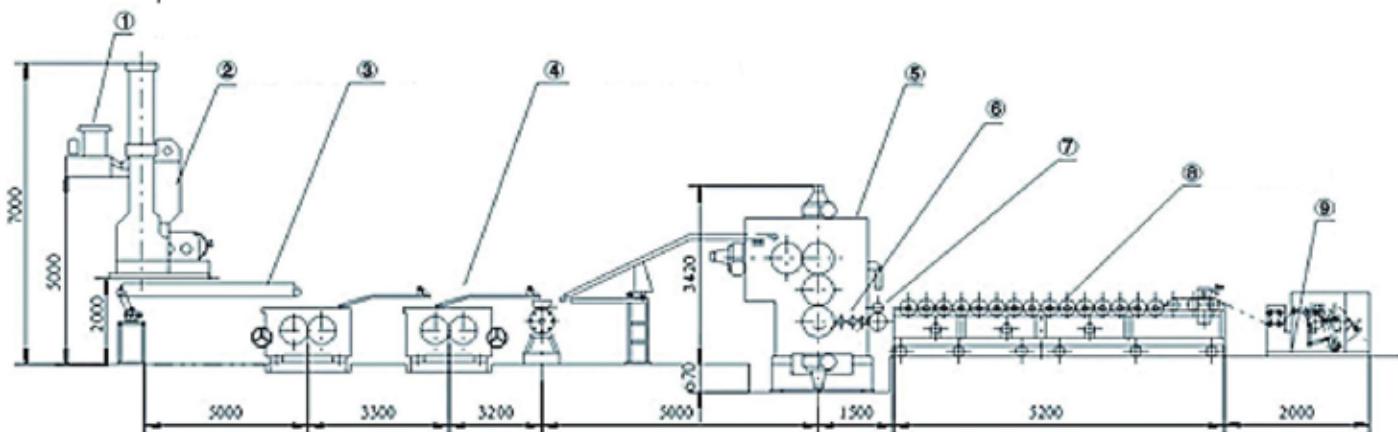
PVC PLASTICS FILM CALENDERING LINE

[Application]

It is used to produce farm film, package color film, transparent film and etc.

[Features]

1. The rollers are drilled roll with hot-grinded, single motor single transmission with a stable and adjustment speed work. The machine use roller bearings which can bear high temperature. Sealing type is labyrinth.
2. The film can infinite extend, with a high work speed, high produce capacity, good quality and uniform thickness.
3. The main machine has roll crossing, preloading and anti-bending device, the nip adjustment speed can be adjusted, the electric parts has PLC control.



① High speed mixer

② Internal mixer

③ Plastic mixing mill

④ Strainer

⑤ Four roll calender

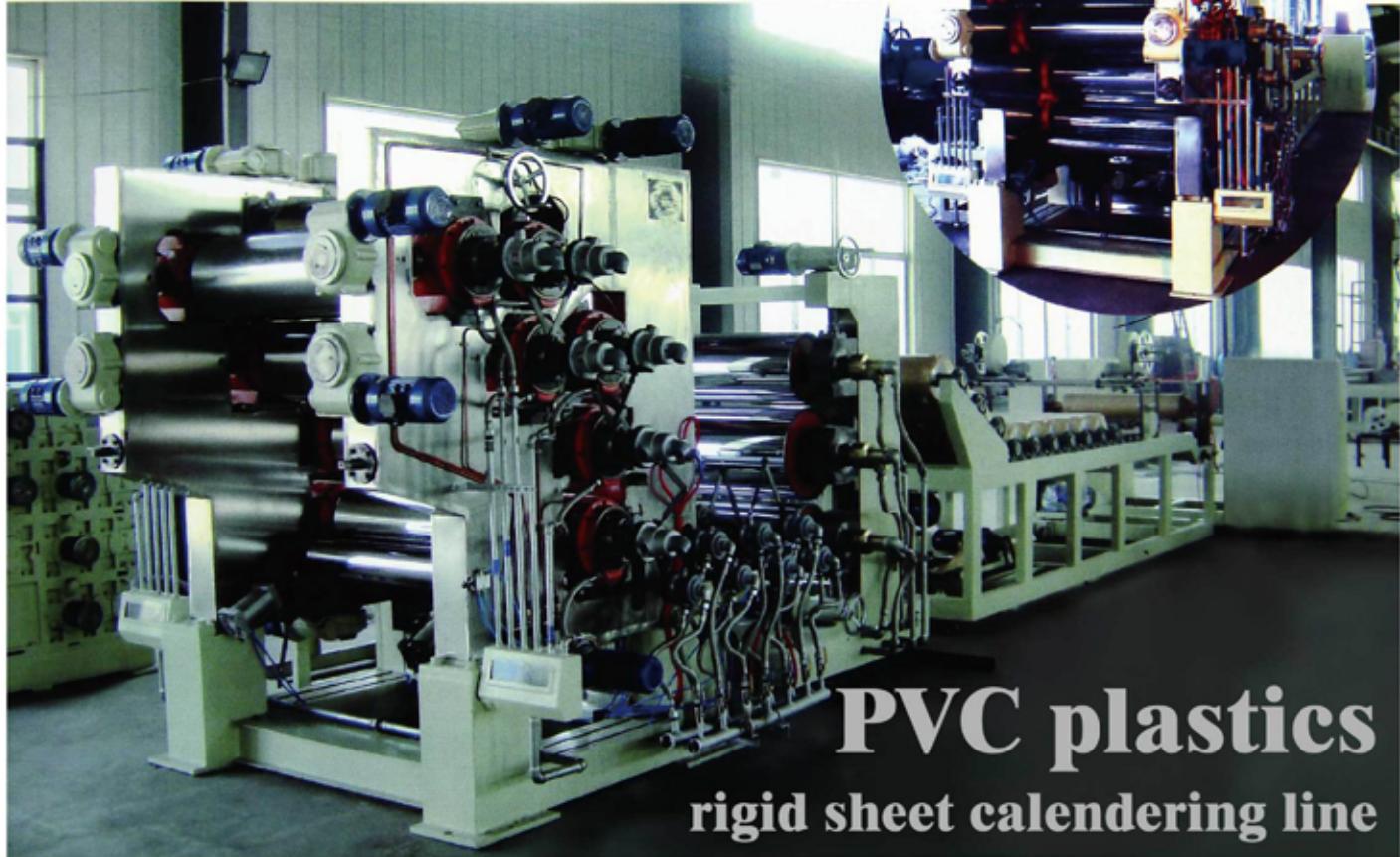
⑥ Take-away device

⑦ Embossing device

⑧ Cooling device

⑨ Auto Winding machine with single roller

PVC RAGID SHEET CALENDER LINE



**PVC plastics
rigid sheet calendering line**

Specification/type	SY-5Γ(L)1050	SY-6Γ1200	SY-6Γ(L)1300	SY-5Γ(L)1500	SY-5Γ(L)1600	SY-6Γ(L)1830	SY-5Γ(L)2030
Roll size	φ400x1050mm	φ400x1200mm	φ450x1300mm	φ510x1500mm	φ560x1600mm	φ610x1830mm	φ660x2030mm
Arrangement pattern	└ type	└ type	└ type	└ type	└ type	└ type	└ type
Calendering speed (m/min)	6-30	6-30	7-35	8-40	8-45	10-50	10-60
Roll quantity	5	6	5	5	5	6	5
Thickness of calender product (mm)	0.06-1.00	0.2-1.2	0.08-1.00	0.08-1.00	0.08-1.00	0.08-1.00	0.08-1.00
With of calender product (mm)	610-800	610-950	610-1050	720-1200	720-1350	800-1500	1000-1700
Driving power (KW)	115	136	215	235	290	380	570
Heating power(KW)	220	245	260	320	395	460	500
Theoretic capacity(kg/h)	450	500	650	800	1000	1500	2000

PVC PLASTICS RIGID SHEET CALENDING LINE

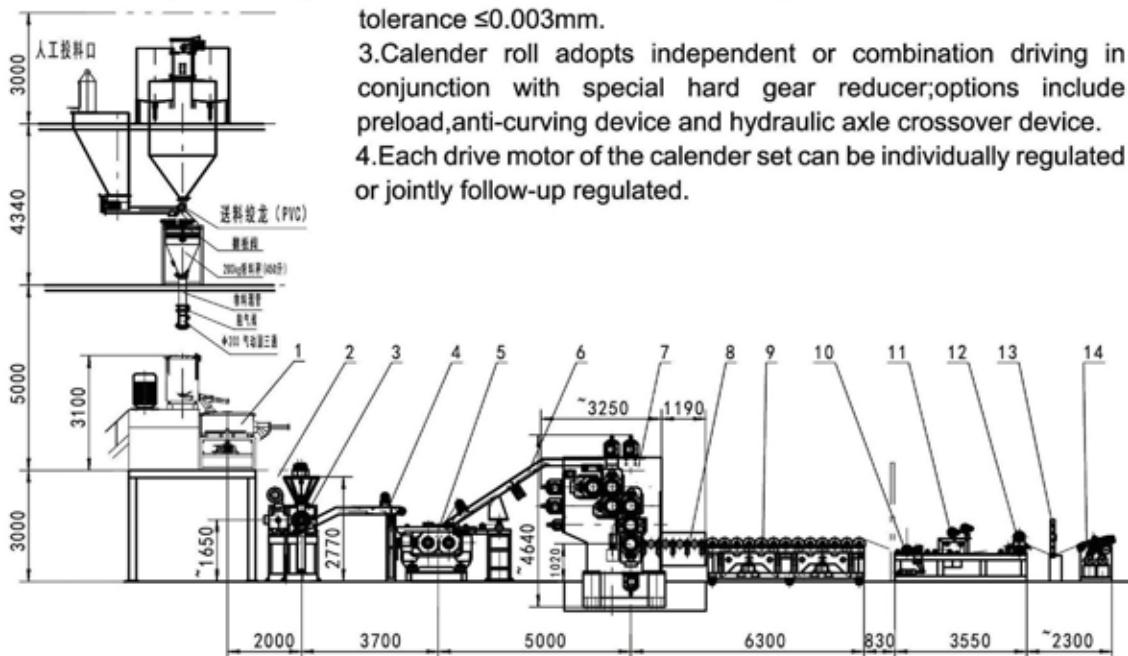
[Application]

This system is suitable for the production of all kinds of transparent, semi-transparent and high filling Rigid PVC plastic packaging sheet, printing sheet and stretch sheet.

[Features]

1. This system is composed of five(six)-roll calender, multiple-roll lead device and auxiliary cooling machine.
2. This system is suitable for the production of Rigid PVC film rolls in the thickness of 0.06-1.20mm with the thickness tolerance ≤ 0.01 mm. We also can supply the special system which can produce Rigid PVC film rolls in the thickness of only 0.02mm with the thickness tolerance ≤ 0.003 mm.

3. Calender roll adopts independent or combination driving in conjunction with special hard gear reducer; options include preload, anti-curving device and hydraulic axle crossover device.
4. Each drive motor of the calender set can be individually regulated or jointly follow-up regulated.



1. SRL-Z800 X 1/ 1600A Mixer	6. Conveyer belt(stainless steel)	11. Slitter edge winding device
2. Conveying pipe (stainless steel)	7. SY-6Tφ510x1450 Six roll calender	12. Rear tractive device
3. WE220 screw extruder(planetary gear)	8. Take-away device	13. Auto cutting device
4. Conveyer belt(stainless steel)	9. Cooling device	14. Double station center winding device
5. SK550 Open mill	10. Tractive device	

LVT AND SPC FLOOR MACHINE



PVC plastics

floor sheet calendering line



Specification /type	Roll diameter ×Length (mm)	Middle roll liner speed (m/min)	Min. thickness of the product (mm)	calendering width (mm)	Motor power (KW)	Overall dimension (LxWxH) (mm)	Weight (t)
SY4Γ560×1680	560x1680	0~35	0.8-2.5	1350	772	5050x1920x1870	45
SY4Γ610×1830	610x1830	0~40	0.8-2.5	1500	852	5830x2300x2000	64

PVC PLASTICS FLOOR SHEET CALENDERING LINE

[Application]

PVC plastics floor sheet calendering line is used to produce the underlying material of top grade new type floor sheet and wall sheet which thickness is 4.5mm-5.5mm.

[Features]

- 1.Using automatic weighing measurement system to ensure each formula of measuring is precision.
- 2.Using closed type mixer for rubber plasticizing, has good dispersion effect, high efficiency and no dust to environment.
- 3.Sheeting machine with two horizontal roll, easy and low cost to operate.
- 4.The sheeting machine roll round is drilled and surface plating tungsten carbide, strong wear-resisting and the roll surface temperature error is small.
- 5.Roller bearing adopts D precision, double row tapered roller bearing with inner hole is 1:12, high centering precision, and the products error will less than 0.01 mm.
- 6.Sheeting machine uses single motor single roll to drive a DC controller. It can make the surface of product smoothly and the machine will work stable and reliable.

LVT FLOOR LAMINATING MACHINE



FOAMING PRESS WITH LOW NOISE AND LOW VIBRATION

Usage

EVA, PE, SBR, CR, EPDM molding & foaming

Features

It is suitable for different kinds of polymer material foaming

The machine is designed with strong structure to meet the foam production

It has a excellent pressure retain system to help the pressure stable during the production.

If user choose our temperature control system, tolerance of temperature can be controlled within $\pm 10^{\circ}\text{C}$.



We offer whole plant design and technical consult for rubber&plastic foam.

Special requirement can be custom-made

Technical parameter

No.	Machine Model	Daylight opening (mm)	Distance between columns (mm)	Motor power (kw)	Overall dimension L*W*H (mm)
1	JHF3.5MN*4-800*1100	150	1000	7.5	1360*1250*3020
2	JHF5.0MN*4-900*1200	150	1300	11	1655*1350*3180
3	JHF7.0MN*6-1100*1350	150	1400	15	1870*1500*4370
4	JHF9.0MN*6-1200*1500	150	1600	15	2110*1650*4543
5	JHF10.0MN*6-1300*1500	150	1500	22	2040x1650x4943
6	JHF11.0MN*6-1350*1700	170	1800	22	2370*1850*4970
7	JHF13.5MN*6-1350*1800	180	1800	22	2370x1950x4980
8	JHF15.0MN*6-1350*2000	180	1800	30	2400*2150*5300
9	JHF16.0MN*6-1400*2250	200	1980	30	2680x2400x5456
10	JHF16.5MN*6-1400*2200	200	1800	30	2720x1550x5855
11	JHF18.0MN*6-1400*2400	180	2000	30	2720*2750*5865
12	JHF20.0MN*6-1400*2600	200	2000	37	2820x2750x5865
13	JHF30.0MN*6-1500*2750	220	2500	37	3450x2900x6880

Optional device for choose

Optional equipment: Auto-feeding machine, Auto-discharging machine, Electric heating type hot oil boiler, Synchronous opening design with low noise and low vibration

EVA(PE) TWO STAGE FOAMING PRESS

Usage

Two stage foaming for EVA, PE, EPDM, SBR materials. (Expansion rate: 25–45 times)

Features

Platen heating and cooling process are fast.

Give finished foam block a good flatness and thin skin.

Save mould release agent





Special requirement can be custom-made

Optional device for choose

PLC auto control steam heating and cooling system

Chrome finish on platen

Oil heating and cooling system

Square tube type or platen type

Technical parameter

No.	Machine Model	Daylight opening (mm)	Layers	Motor power (kw.)	Cooling water (m ³ /h)
1	JHF-1000*2000	150	6-10	5.5	15
2	JHF-1200*2400	150	6-10	5.5	20
3	JHF-1500*3000	150	5-6	7.5	25
4	JHF-1500*4000	150	5-6	11	40

PS: If you want to make foam block below 25 times of expansion rate, please notice us this matter before order.

RUBBER & PLASTIC EXTRUDER

Usage

For extruding and performing of EVA (PE) foaming material.



Features

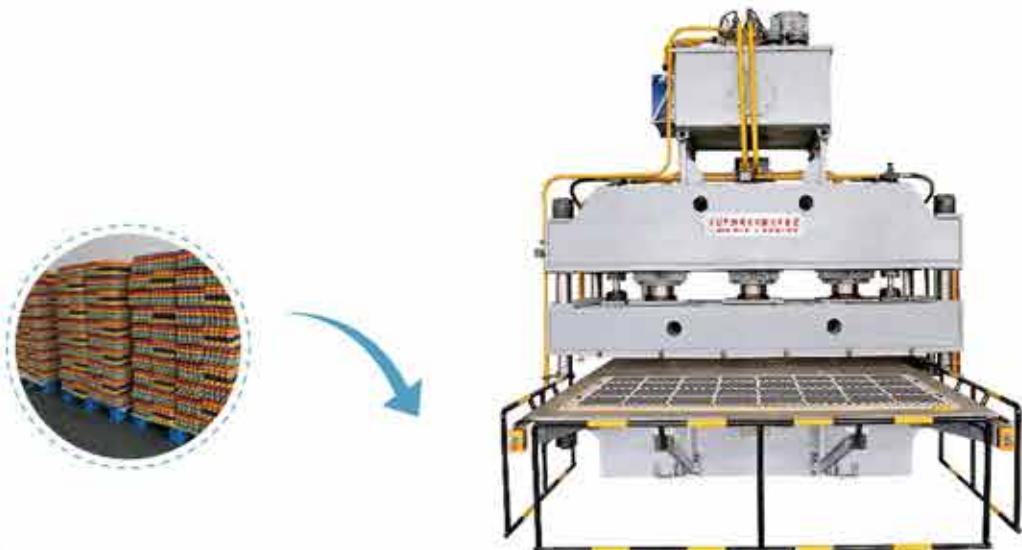
Replace mixing mill. This new technique reduces the labor and electric consumption.

Improves the foam cell structure uniformity and compactness

Technical parameter

Machine Model	Output (kg/h)	Drive motor power (kw)	Heating power (kw)	Outlet dimension (mm)	Cooling water Mpa/1.5T/h	Machine weight (KG)	Overall dimension (L*W*H) (mm)
SJW230A	800	22	26	275*25	0.25	7000	4700*2100*2100
SJW250B	900	30	26	300*30	0.25	7500	4700*2100*2100

CUTTING MACHINE FOR EVA FOAM SHEET



Features

Safety guarantee: auto mould in and out, safety light curtains protection.

High output: double side operation, less operation time, max 6 times/minute

Technical parameter

Machine Model (Width*Length) (mm)	Daylight opening (mm)	Motor power (kw)	Structure type	Control type
JHC2.5MN*1-1500*2700	200	22	Cylinder downstroke	Auto mould in&out

PRODUCTION LINE LAYOUT



Kneader



Two roll mill



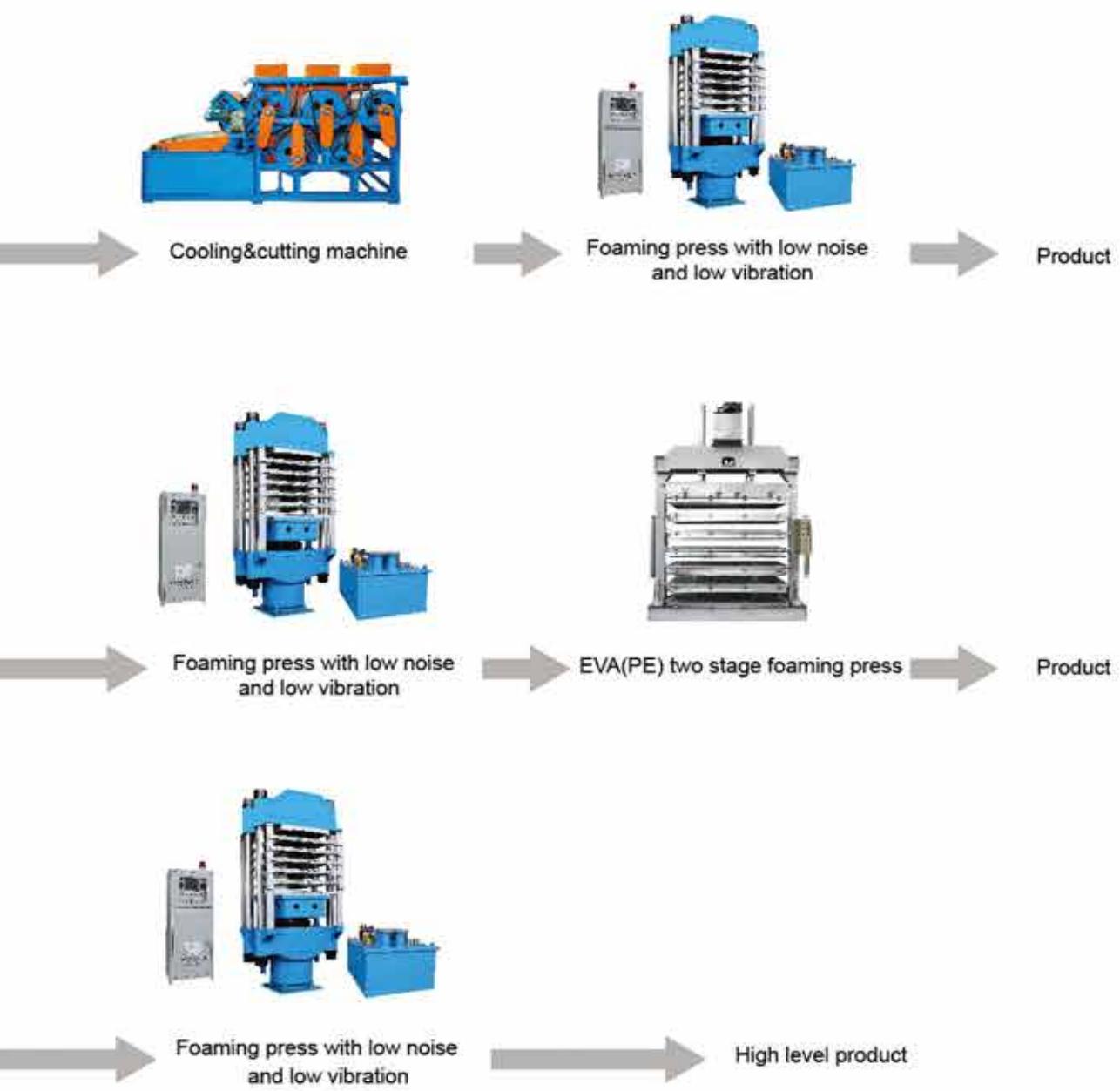
Rubber&Plastic extruder



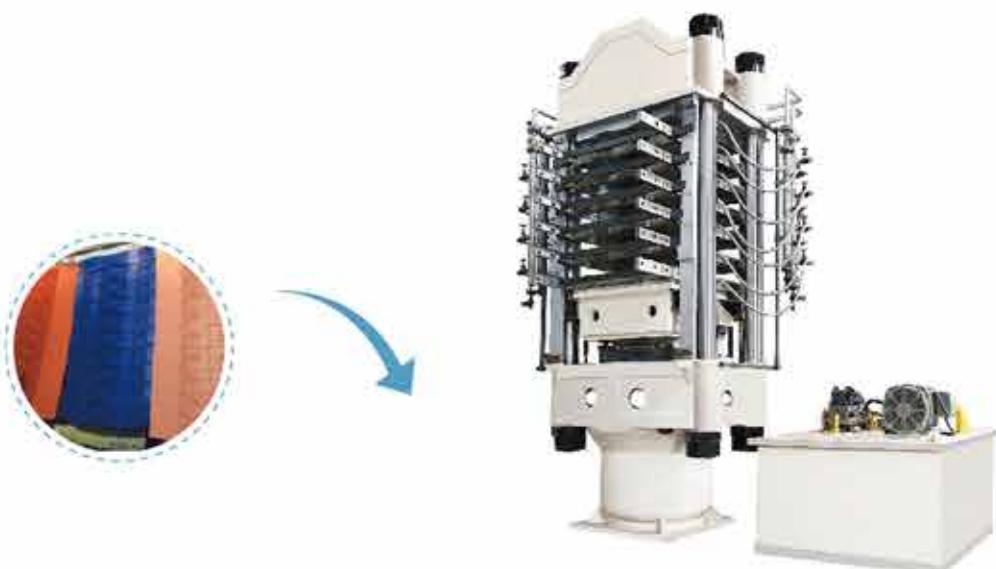
Prepress



Prepress



PVC SOLING SHEET, RUBBER SOLING SHEET HOT PRESS



Usage

Suitable for vulcanizing PVC tiles, soling sheet, rubber soling sheet and rubber tiles.

Features

Machine guarantee the sheet thickness is even, tolerance less than 0.1.

Micro computer auto control that gives smooth product flows and high efficiency.

Platens are specially designed to acquire fast heat transfer speed and even temperature distribution.

PVC SOLING SHEET, RUBBER SOLING SHEET HOT PRESS

Technical parameter

No.	Machine Model	Daylight opening (mm)	Layer	Cylinder diameter (mm)	Motor power (kw)	Heating power (Thousands of calories)
1	XLB7.0MN*5-800*1300	150	5	650	11	5
2	XLB9.0MN*6-1300*1300	150	6	762	15	10
3	XLB10.0MN*6-1320*1420	150	6	813	22	10
4	XLB12.0MN*6-1320*1420	150	6	860	22	10
5	XLB15.0MN*6-1320*1420	120	10	940	22	10
6	XLB18.0MN*8/10-1320*1420	120	8/10	1040	30	12/15
7	XLB20.0MN*8/10-1320*1420	125	10/12	1180	37	18/22

Optional device for choose

Mould pull-in-out mechanism, electric type oil heating system, secondary temperature control system.

2RT/3RT/4RT VULCANIZING PRESS



We offer custom-design vulcanizing press

VULCANIZING PRESS FOR RUBBER BEARING



FRAME TYPE HOT PRESS



SPECIAL DESIGNED VULCANIZING PRESS



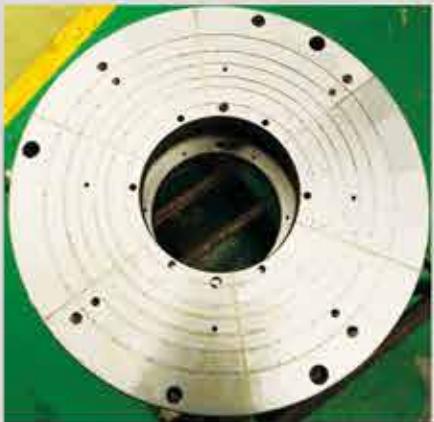
SPARE PARTS

We also supply the rubber and plastic machinery spare parts according to customer requirement, like: gear reducer, roller, bearing, rotary joint, welding parts, etc.



TYRE MOULDS

We supply full range of tyre moulds for all the type of tyres including soild tyres.



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