



NINGBO MENGKWA MACHINERY CO., LTD

Brief Introduction

NINGBO MENGKWA MACHINERY CO., LTD. is located in NINGBO ZHEJIANG Province. We have more than 10 years experience in rubber production line and enjoy good reputation in the national and international market.

We can provide different production technology for different products according to customer requirement; Continuous Microwave vulcanization, Salt bath Vulcanization and Electrostatic flocking technology is our main technology.

Our Major products include:

Various Type of Exhausted Cold-Feed Rubber Extruder(Φ150, Φ120, Φ90, Φ75, Φ65, Φ45)

Rubber foamed air conditioning insulating pipe production line; (material PVC with EPDM or PVC with NBR)

Rubber Foamed Flat Sheet line;

Solid rubber seals strip and rubber hose continuous microwave vulcanization production line;
Salt bath Vulcanization production line;

Electrostatic flocking production line;

Silicon seals production line;

Auxiliary equipment for rubber production line;

Equipment Characteristics: Even vulcanization, quick speed and high efficiency. It can improve the product quality and increase output and reduce the production cost and optimize the working conditions. It protects environment and saves energy. Equipment automation is high and operation is simple.

We can design and produce rubber production line with different productivity and different specification according to customer requirement; The total line control can be manual control, semi-automatic control and PLC control for the whole line;

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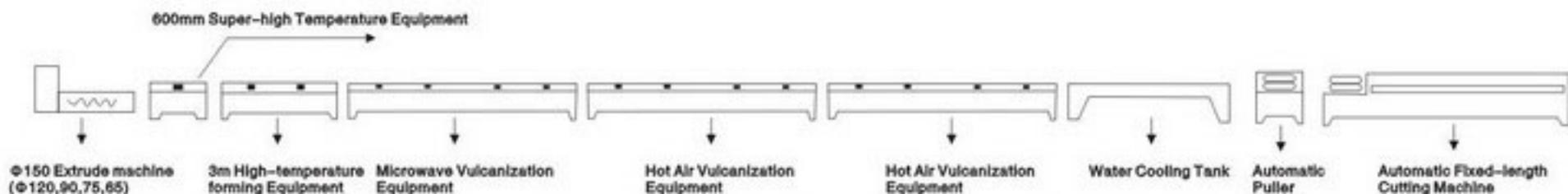
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Single-extruding rubber microwave vulcanization production line



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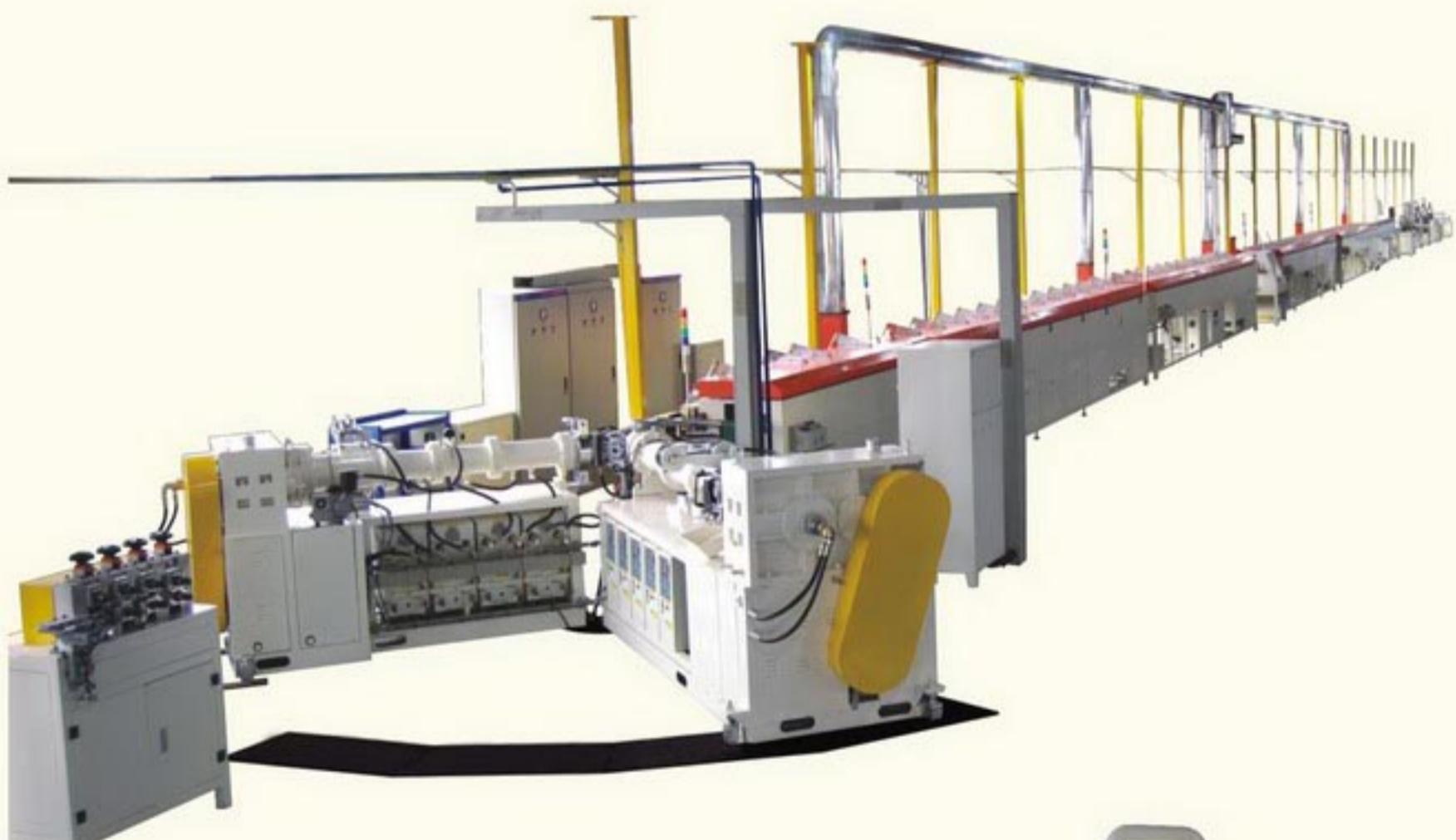
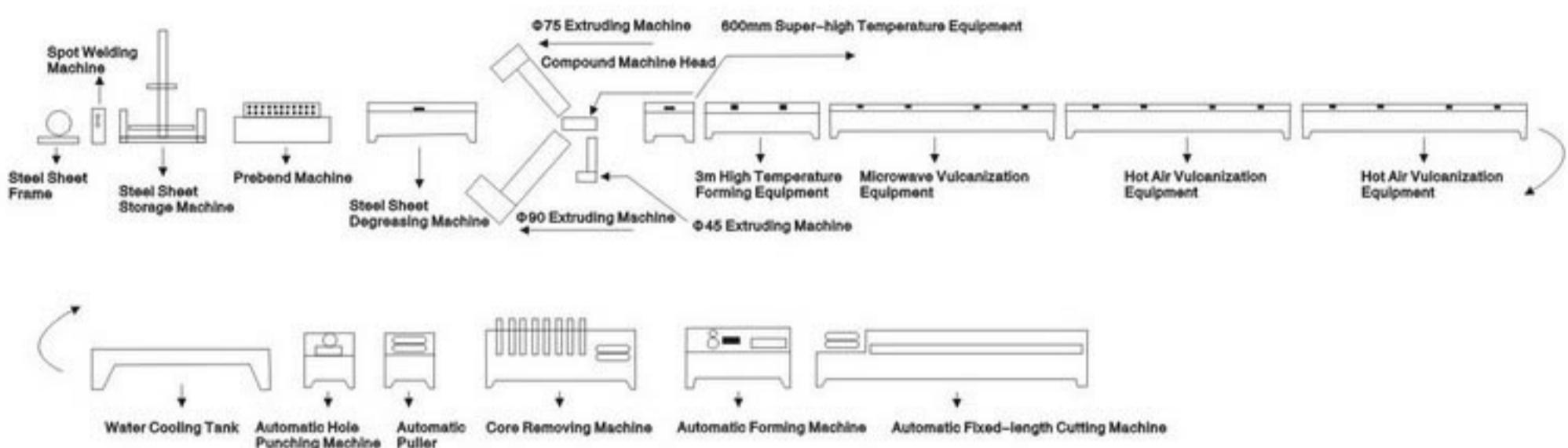
Application:

It is used for produce the compound or single rubber strip which used for the automobile and vulcanize for the foamed or solid rubber strip. It can produce various shapes of rubber products such as band-shaped, strip-shaped and board shaped which used for the architecture, electrical appliance, machinery, water conservancy and so on.

Characteristics: Uniform vulcanization, quick heating speed and high efficiency. It can improve the product quality and output and reduce the production cost and optimize the working conditions. Equipment automation is high and the operation is easy. The technology of this equipment reach to the advanced world standard technology with low cost.

We can produce and design the extruder with microwave vulcanization production line according to customer requirement. The operation can be semi-automatic or full automatic by PLC control.

Compound- rubber microwave vulcanization production line



Compound extrude



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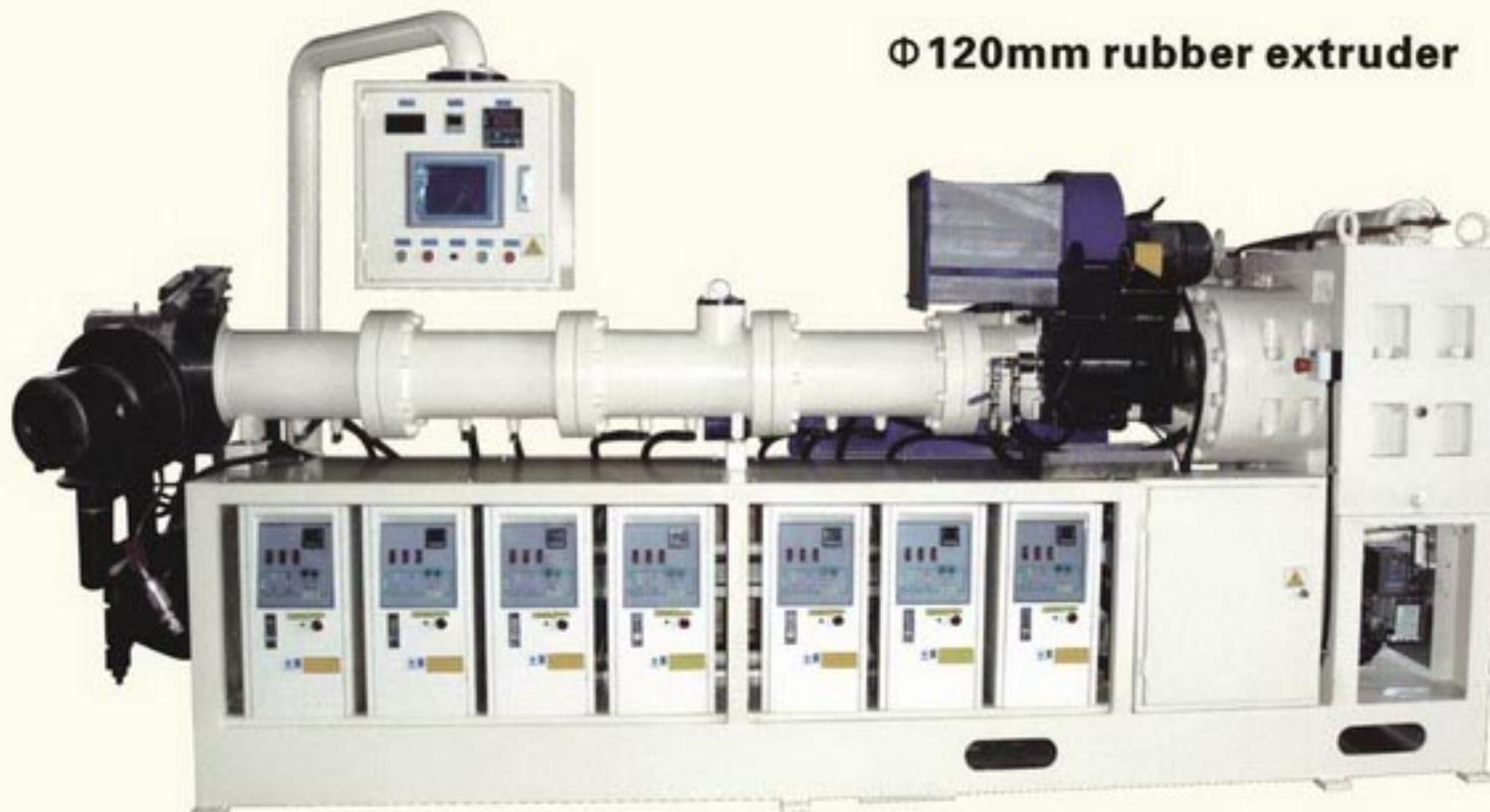
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Exhausted cold-feed rubber extruder

Φ120mm rubber extruder



Model	45K-20D	65K-20D	75K-20D	90K-20D	120K-20D	150K-20D
Screw Dia (mm)	45	65	75	90	120	150
L/D	20(16):1	20(16):1	20(16):1	20(16):1	20(16):1	20(16):1
Screw R/M	0-70	0-65	0-60	0-55	0-50	0-45
Max. Output (kg/h)	50	120	150	300	550	720
Motor power (kw)	7.5	22	37	45/55	90/110	132/165
Temp. zone	2	3	4	5	7	7
Heater power (kw)	6	9	12	15	21	21
Center height (mm)	1000/1100	1000/1100	1000/1100	1000/1100	1000/1100	1000/1100
Weight (kg)	500	1200	1700	3200	5200	6500

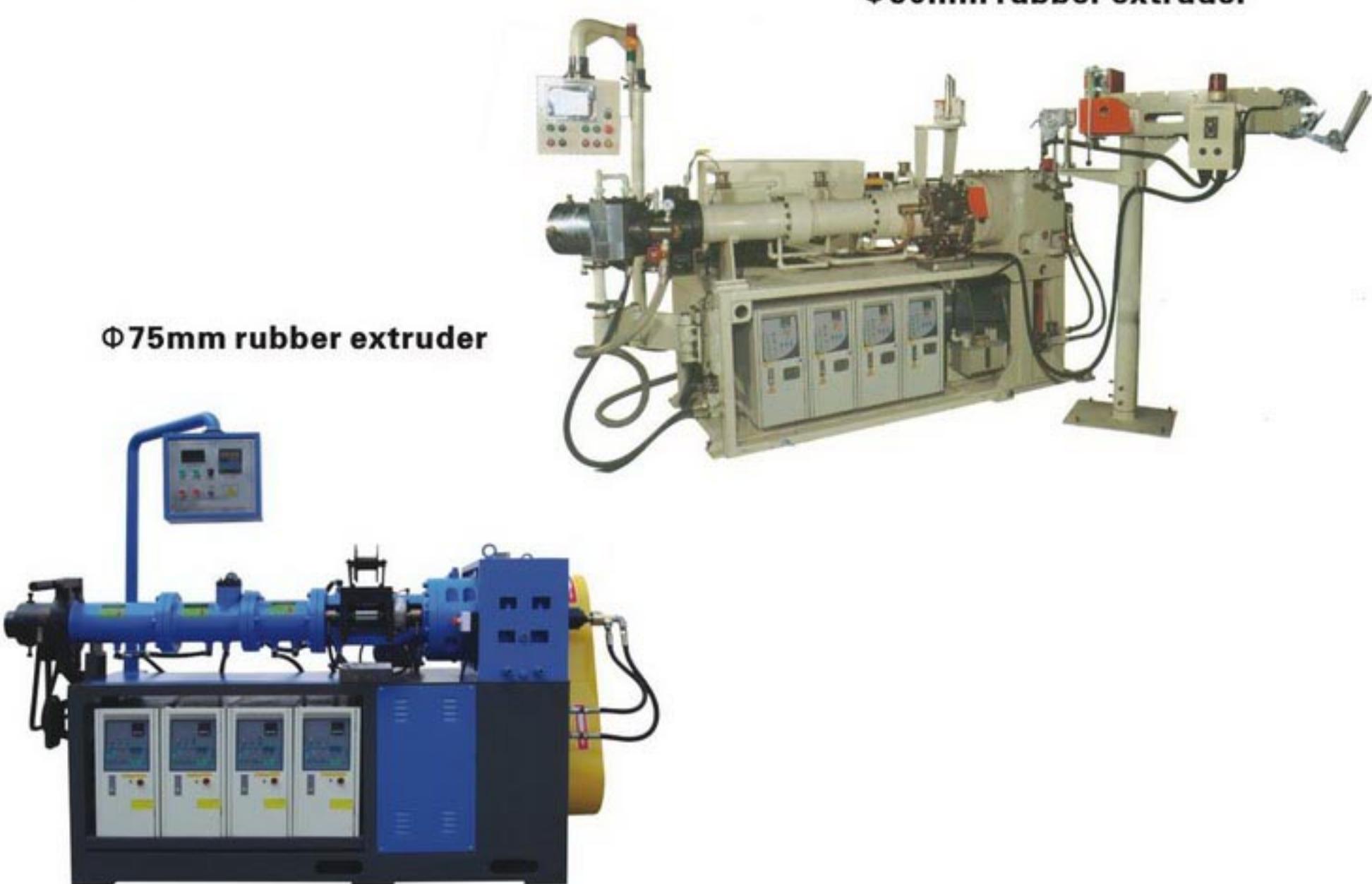
Φ90mm rubber extruder



Exhausted cold-feed rubber extruder



Rubber extruder with gear pump



Φ75mm rubber extruder

Φ90mm rubber extruder



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Microwave vulcanization equipment:

Usage: The function of this equipment is to utilize microwave for penetrated rapid heating for insulating rubber strips. The inside and outside of the rubber sealing strip is heated by microwave uniform and fast. And in the same time the hot air is blown to the microwave oven for avoid from difference of temperature of surface and inside of the rubber strip because of heat radiation of surface; Through microwave vulcanization equipment, the temperature of rubber inside and outside can reach to the required same temperature , then can get the ideal vulcanization result.



Characteristics:

- 1.Easy control, simple operation and easy maintenance.
- 2.Failure display function. If one magnetrons tube is not operating, the indicator lamp will display immediately;
- 3.Fast heating and uniform heating; Same time heating for external and internal of rubber product;
- 4.High heating efficiency. As the heated products is able to heat up on itself, the heating is free from heat exchanging process, therefore there is no heat loss in the surrounding air and heating oven;
- 5.Strong heating penetration. Heat penetrating depth wands wavelength are at the same order of magnitude, it can reach to several centimeter even more than 10cm;
- 6.Heating method: Fuel, gas and electricity;

Technical Parameter:

- 1.Temperature of inside heating oven: 0–290°C adjustable;
- 2.Microwave frequency: $2450 \pm 50\text{MHz}$;
- 3.Microwave power: 1–10kw adjustable;
- 4.Magnetrons cooling method: air cooling/water cooling;
- 5.Transmission belt width: 150/180mm;
- 6.Heating power: 36kw;
- 7.Transmission speed: 0–28m/min (adjustable);



Structure:

The equipment include electric control system, microwave heating oven, microwave suppresser, conveyer belt, mechanical transmission device, rack, and hot air circulating system, etc.

Microwave cavity is provided with multi-point microwave feed inlets, for uniform heating. Owing to elaborated design, there exists very little mutual interference between the outlets and inlets.

The source of microwave is composed of magnetrons tubes and related protective circuits.

The micro suppresser guarantee the leakage of microwave at the inlet and outlet is less than the China government standards;

The speed of conveyer belt can be adjusted;

The mechanical transmission structure is equipped with the deviation rectifying device, it can prevent and correct the deviated running of conveyer belt;

Hot air vulcanization equipment:

Usage: The function of the equipment is to utilize high temperature hot air to vulcanize the rubber products then reach to the required performance. Different rubber products may require different temperature for vulcanization. The temperature can be set from 0°C until 290°C according to different material requirement. The equipment is easy to operate, control, and it's easy to maintenance;



Technical Parameter:

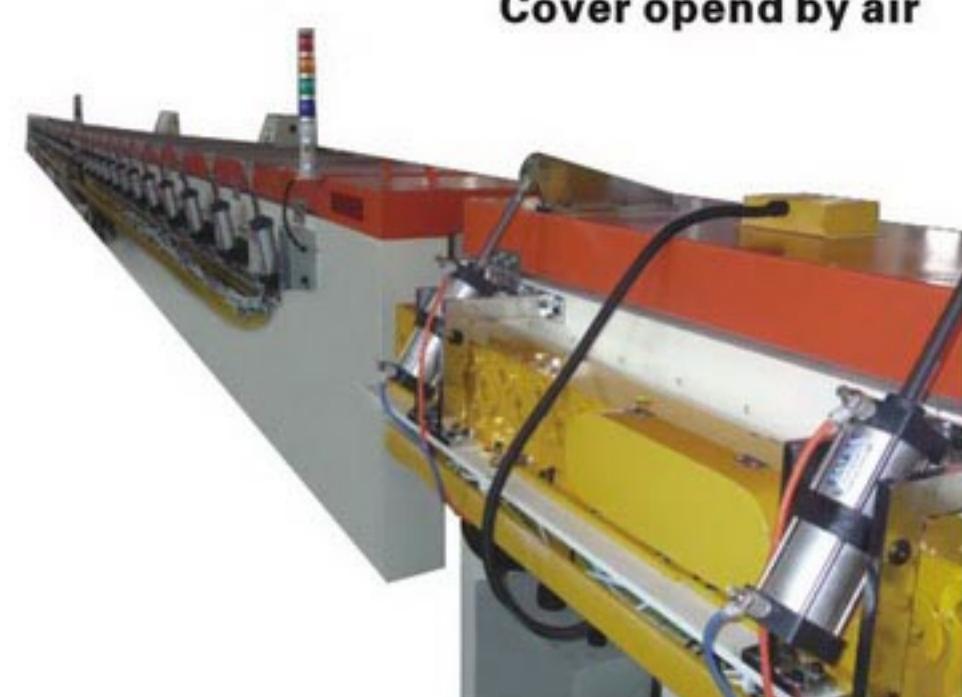
- 1.Temperature of inside heating oven: 0–290°C adjustable;
- 2.Transmission belt width: 150/180mm;
- 3.Heating power: 36kw;
- 4.Transmission speed: 0–28m/min (adjustable);

3M High Temperature Forming Equipment:

Usage: The equipment is used to heat the rubber sealing surface uniform and fast by infrared radiator, the temperature can reach to 350 °C which make the rubber surface quickly form.

Technical Parameter:

- 1.Heating power:24kw;
- 2.Heating method: Fair infrared radiator;
- 3.Conveyor method: by stainless steel roller;
- 4.Transmission speed: 0–28m/min;



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Auxiliary equipment

Cooling tank

Usage: Cool and blow rubber strips which come out from hot air vulcanization oven.



Puller:

Usage: It can pull the rubber strip after cooling.

Steel band (steel core) preforming machine



Auxiliary equipment

Breaking off machine:

Usage: It can cut off the steel band in three/four-compound rubber strips, but it does not break off the rubber strips;



Automatic forming machine

Usage: The types of form wheel, it is provided according to different customer's requirement; The transmission adopt the frequency conversion speed control for keep the same speed with other equipment;



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Auxiliary equipment

Steel sheet storage equipment:

Usage: It is for storage the steel sheet for guarantee the continuous production when the steel sheet is welded;

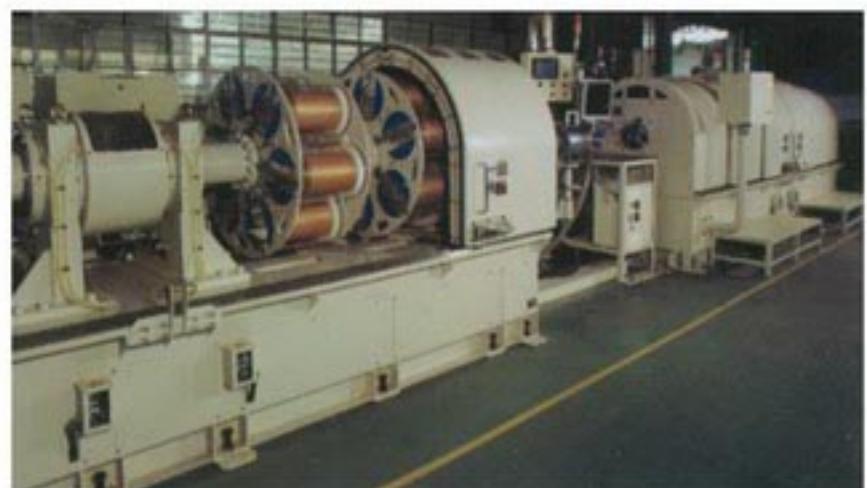


Punching Machine:

Usage: It is used for punch on the rubber strip according to different customer's requirement;



High speed winding machine



Automatic fixed-length cutting machine



Cutting-off machine

Usage: The rubber strip are cut off then collected according to the required size;

600mm super high temperature machine



Rubber material feeder



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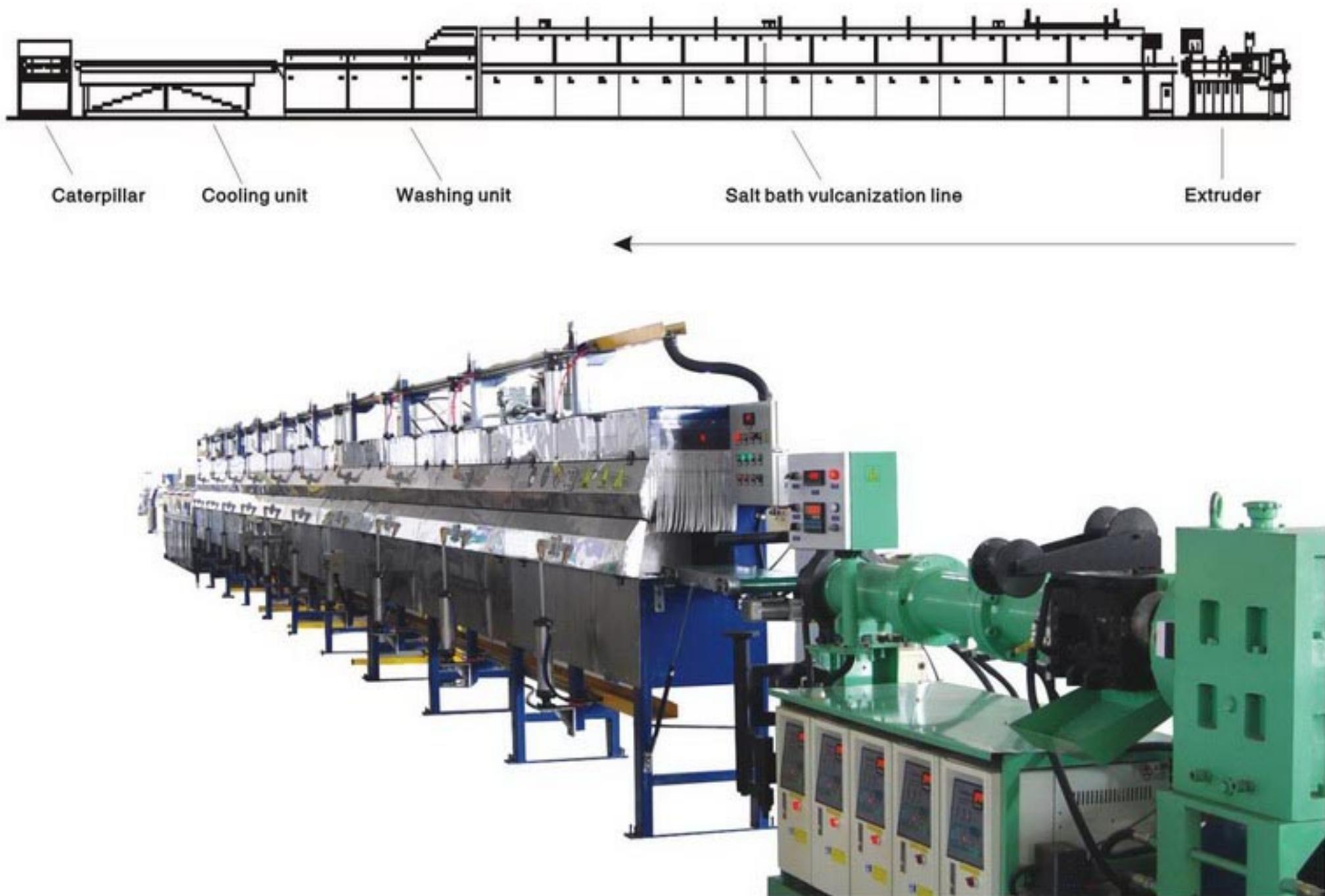
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Continuous salt bath vulcanization production line



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Composition of Equipment For LCM System

- 1.Salt-bath dissolving tank;
- 2.Vulcanization tank;
- 3.Staged washing, cleaning and cooling tank;
- 4.Water collection and treatment tank;

Superiority of LCM system

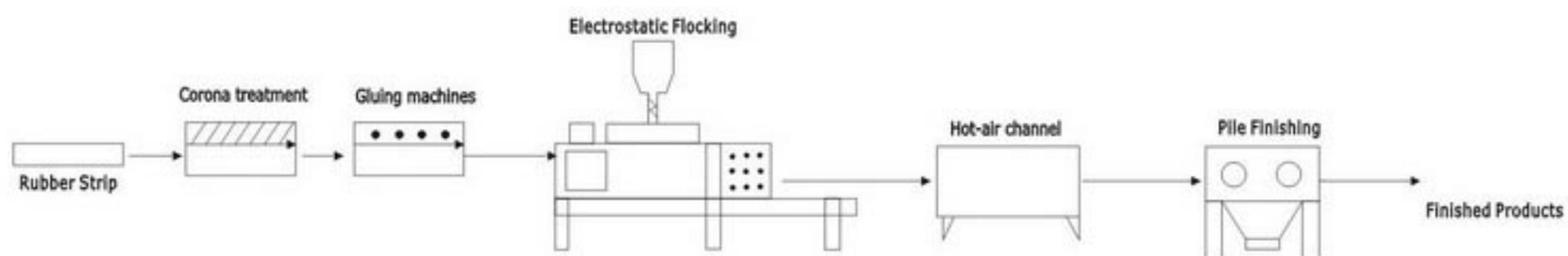
- 1.The liquid level of salt-bath vulcanization tank is constant, the temperature control precision is high;
- 2.High-efficient cleaning, cooling and drying of shaped rubber materials;
- 3.Patent system of recovery of vulcanization salt to reduce the loss of salt with big margin;
- 4.Low consumption of energy;
- 5.Low consumption of water;
- 6.Low production cost;
- 7.Perfect filtration system enable the salt-bath to be used for long time, and in same time it eliminate the possibility of fire and explosion;
- 8.No drainage of wasted water;
- 9.Purified treatment of wasted gas;
- 10.Perfect environmental protection;

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Features of LCM technology:

Compared with other rubber vulcanization technology such as microwave vulcanization technology, the LCM system has given prominence, mainly to an extremely good treatment quality, very high vulcanization speed, and extensive adaptability (can be used for vulcanization of color rubber, etc), and:

- 1.Because of excellent heat exchanging performance of vulcanization salt bath, the section of the shaped rubber strip can be fully and uniformly vulcanized;
- 2.The shaped rubber strip soaked in the high density salt bath and endure uniform pressure during vulcanization, the distortion of vulcanization is extremely small;
- 3.The rubber strip surface through salt bath technology is smooth and less micro-hole;
- 4.The reinforced material inside of the shaped rubber strips shall not be affected by vulcanization.
- 5.No need to add special chemical additives required by such as UHF technique;
- 6.Low consumption of energy sources. When natural gas or coal gas is used as the main heating source, the cost for energy is more low;

Automatic rubber electrostatic flocking production line**Gluing machine****Flocking system****Ningbo Mengkwa Machinery Co.,Ltd**

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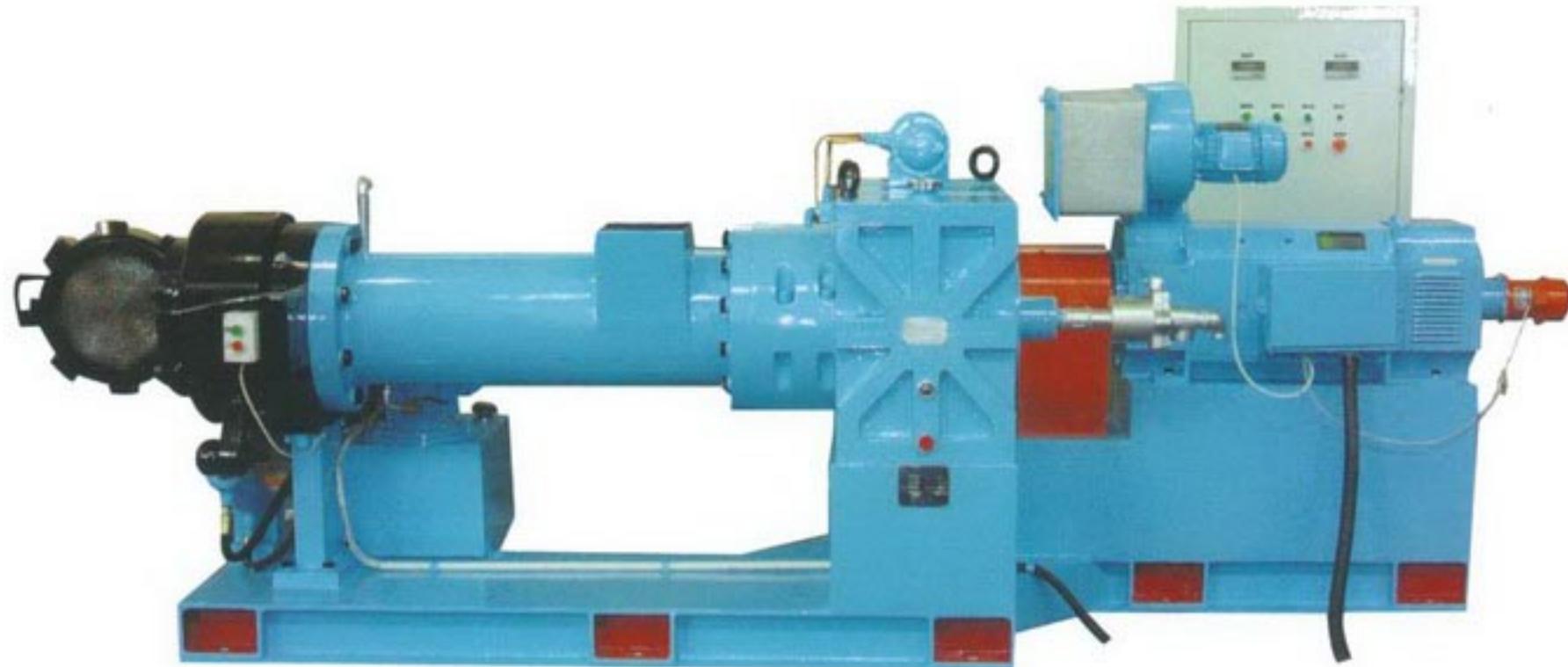
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Rubber strainer extruder

Application: It is used for the filtering of natural rubber and reclaimed rubber. It can also be used to filter the vam and inner tube rubber mass by rubber manufactures.



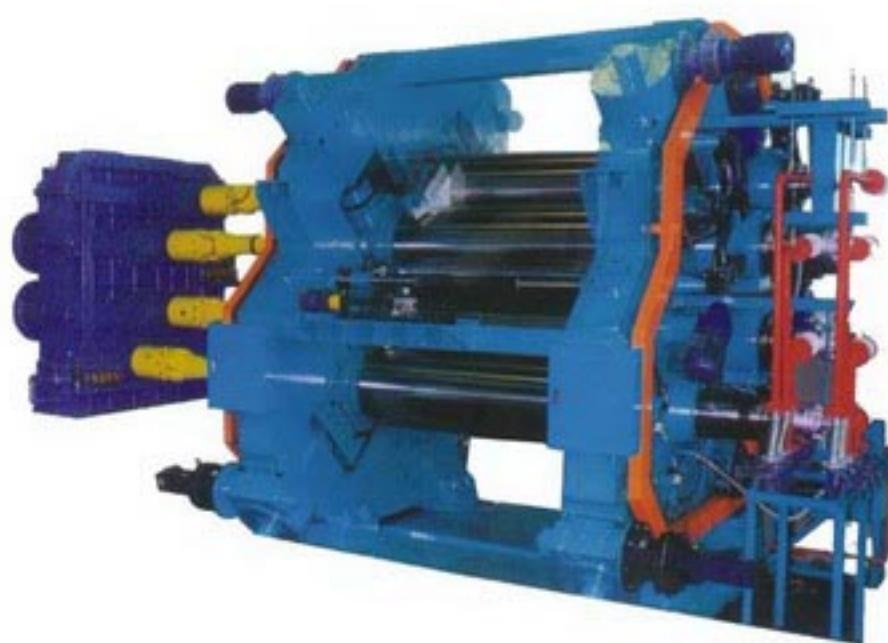
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Model screw	screw diameter (mm)	L/D	screw rotate speed(r/min)	max. Output (kg/h)	driving motor Power(kw)	weight(T)	dimension(mm)
XJL-150	Φ150	5:1	43	450	30	2.9	L2960x W1110xH1950
XJL-200	Φ200	5:1	5-50	800	55	3.6	L3600 x W1000 xH1380
XJL-250	Φ250	4.5:1	5-45	1800	90	5	L3800 x W1300 X H1400

Refining Mill

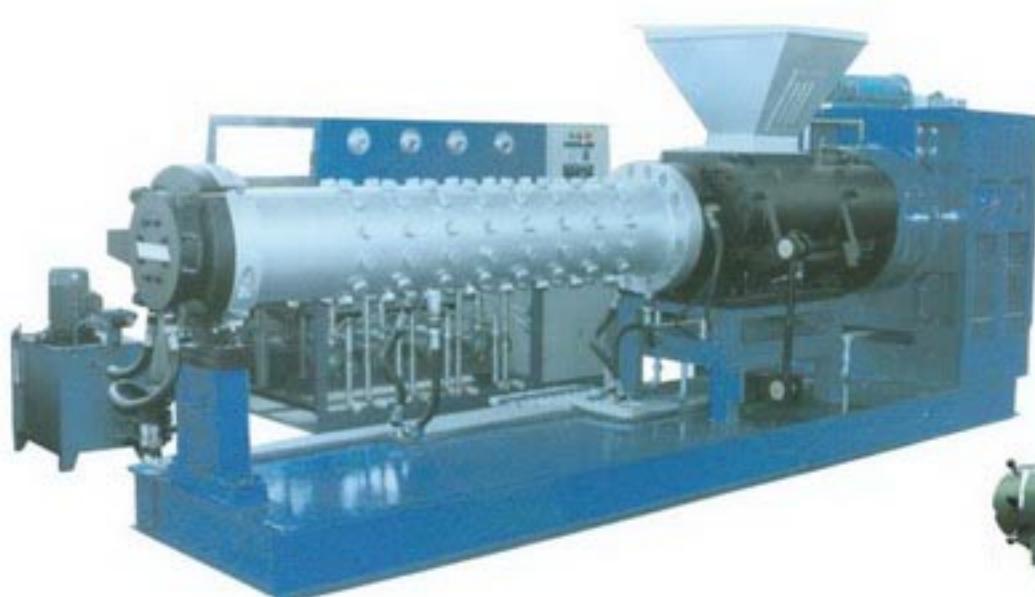
Application: Mainly used for the refining of reclaimed rubber.



Rubber Calendar

Pin-type cold feed rubber extruder

Application: For continuous extrusion of normal temperature sizing material into required half-finished goods.



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Rubber extruding production equipment



Φ90mm rubber extruder



Rubber precision preformer



Precision Preformer is a type of equipment producing rubber blanks with high efficiency and accuracy. This machine can process a wide range of rubber material, including silica rubber, butadiene acrylonitrile rubber, butyl rubber, fluorine rubber, and etc. It can extrude different shapes of rubber blanks such as loops, rectangular, bars or others, especially suitable for producing rubber sundries, sealing members, oil seal, valves, bottle caps, tennis balls, shoes soles and etc. It integrates a variety of different functions such as vacuuming, filtrating, extruding, cutting, weighing, counting and etc. Apart from regular water coolers, it also provides other hydraulic system like strong wind cooling system, which is especially suitable for the conditions of high temperature and the lack of water.

Refmery --- Executed by preformer at a rate of 300pcs/min, the products are devoid of any joints and air bubble----Vulcanization-----Inspection & Packing

Model no.	JY100	JY125	JY200-F	JY200-B	JY250-K	JY250-B
Barrel diameter(mm)	100	125	200	200	250	250
Max. feeding volume(kg)	4	8	25	25	45	60
Effective die diameter(mm)	70	95	125	125	190	190
Weight accuracy of product $\leq \pm 1.5\%$						
Cutter speed	0-300r/min					
Max. temperature for barrel	95°C					

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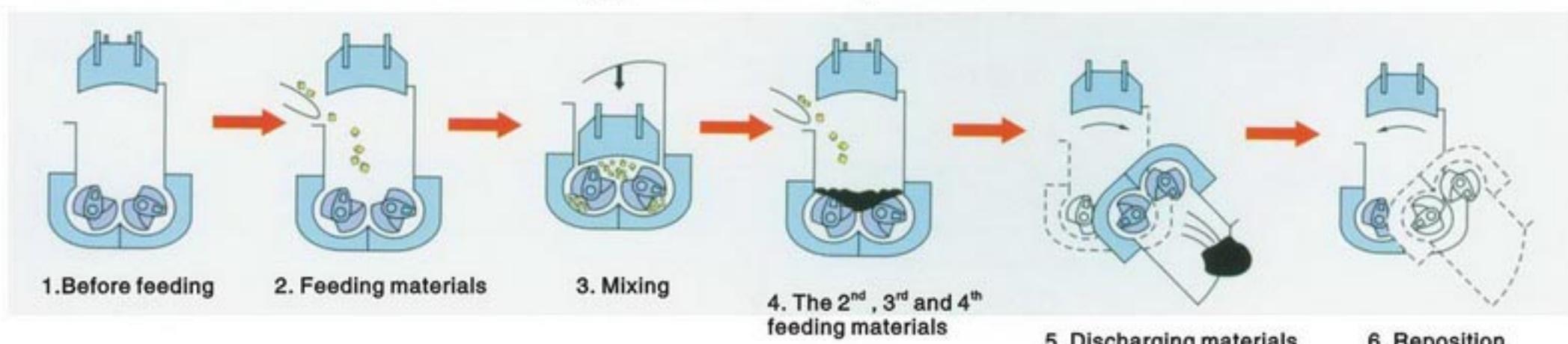
Rubber (plastic) dispersion mixer

It is used in the plasticizing, mixing and final refining of rubber and plastic, as well as other sticky materials;



Model	X(S)N-3X32	X(S)N-10X32	X(S)N20X32	X(S)N-35X30	X(S)N-55X30	X(S)N-75X30	X(S)N-110X30	X(S)N-150X30	X(S)N-200X30	
Total volume of mixing chamber	L	8	25	45	75	125	180	250	325	440
Working volume of mixing chamber	L	3	10	20	35	55	75	110	150	200
Driving motor power	kw	5.5	15	30	55	75	110	185	220	280
Tilting motor power	kw	0.55	1.1	1.5	2.2	2.2	4	4	5.5	7.5
Tilting angle	°	135	140	140	140	140	140	140	140	140
Rotational speed of the rotor(front/rear)	r/min	32/24.5	32/23.5	32/25	30/24.5	30/24.5	30/24.5	30/24.5	30/24.5	30/24.5
Overall dimension	L	1660	2580	2630	3200	3280	3330	3930	4200	4520
	W mm	960	1300	1520	1900	1930	2620	3000	3300	3400
	H	1750	2280	2250	2950	3070	3340	3680	3900	4215
Weight	kg	2000	3300	4500	6500	7800	10500	14500	19500	22500

Working procedure operation order



Pressure Banbury Mixer 3L/5L for Laboratory

It is a pioneer in laboratory to be applied for mixing of small lot samples of some dozens of raw material, such as rubber, plastic, EVA, TR and chloroplast etc. It is featured with small volume, lower power consumption which provide manufactures with an optimum and favorable apparatus for saving raw material.

**Non-Pressure Mixing Roll of Open Type 3L**

It is a non-pressure mixing roll of open type, and applied to small lot pilot production with ceramics, chloroplast and ink etc. It has a movable mixing chamber without overturning skip to facilitate receiving of the material and cleaning.

**Rubber mixing mill**

Open rubber mixing mill is most widely used for production of rubber products and mainly used for rubber mixing , sheeting, plasticizing and warming .

The rolls are made of chilled alloy cast iron with wear resistant hard surface, overload protection device for protect the main parts from damage in case of overload, the roll gap be easily adjusted manual or auto , low noise and high drive efficiency



model	Xk-360	Xk400	Xk-450	Xk-550	Xk-660
Roller dia (mm)	360	400	450	550	660
Roller length (mm)	900	1000	1200	1530	2130
Force-roller speed (m/min)	16.10	18.46	22	27	28.5
Motor power (kw)	30	45	55	90	110

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Vacuum vulcanizing press for rubber

Flow of machine motions:

Initial state—Put the material into the mould, reposit the ejector cylinder—Load the mould—Close the mould quickly—Vacuum cover goes down—Suck out the air, clamp the mould slowly, increase pressure—Exhaust—Vacuum cover goes up, vulcanize—Open the mould quickly—Pushing out the mould—Ejector cylinder works, and separate mould and product—take out the product



Transfer type molding machine for rubber

Initial state—Reposit the ejector cylinder—Load the mould—Close the mould quickly—Clamp the mould slowly, increase pressure—Put material in manually, injection pole goes down, inject the material—Exhaust/vulcanize— Pushing out the mould— Ejector cylinder works, and separate mould and product—Take out the product



Model	XZB-D400 x 400/630	XZB-D600 x 500/1000	XZB-D550 x 600/2000	XZB-D650 x 700/3000	XZB-D850 x 1000/4000	XZB-D1000 x 1200/6000
Clamping force	630KN	1000KN	2000 KN	3000 KN	4000 KN	6000 KN
Heating plate size	400mm x 400mm	500mm x500mm	550mmx600mm	650mmx700mm	850mmx1000mm	1000mmx1200mm
Heating plate distance	250 ~ 350 mm	200 ~ 400 mm	160 ~ 480 mm	300 ~ 500 mm	80 ~ 1200 mm	400 ~ 500 mm
Material cylinder spec.	Φ70 x 215 mm	Φ80 x 255 mm	Φ90 x 290 mm	Φ110 x 355 mm	Φ130 x 445 mm	Φ160 x 780 mm
Injection stroke	305 mm	380 mm	450 mm	580 mm	680 mm	1060 mm
Ejector stroke	250mm	250 mm	300 mm	350 mm		
Max ejector force	40KN	60 KN	60 KN	60 KN		
Motor power	5.5KW	5.5 KW	5.5 KW	5.5 KW	7.5+4 (KW)	11+11 (KW)
Heating power	6.4 KW	9.8 KW	12.6 KW	19 KW	34 KW	52 KW
Dimension (L x W x H)	1550x1850x (2500 ~ 2800) mm	1660x2100x (2800 ~ 3000) mm	1900x2400x (3000 ~ 3200) mm	2100x2700x (3650 ~ 3850) mm	2500x3500x (4800 ~ 5200) mm	2700x4100x (5780 ~ 5880) mm
Weight	2300KGS	3500 KGS	4800 KGS	8200 KGS	16000 KGS	26000 KGS

Rubber injection molding machine:

Flow of machine motions:

Initial state-Reposit the ejector cylinder-Load the mould-Clamp of mould goes up, close mould, increase pressure-Carriage goes down, inject-Exhaust/Carriage goes up, vulcanize and time before storing-Carriage goes down, store-Vulcanize and time after storing, carriage goes up-Open mould-Clamp of mould goes down-Pushing out the mould-Ejector cylinder works, and separate mould and product-Take out the product

Model	HY-550x570/1500	HY-550x600/2000	HY-600x650/2500	HY-650x730/3000	HY-700x800/4000
Clamping force	1500KN	2000KN	2500KN	3000KN	4000KN
Heating plate size	550x570mm	550x600mm	600x650mm	650x730	700x800
Heating plate distance	450 - 600mm	450 - 600mm	500 - 650mm	500 - 700mm	600 - 800mm
Theoretical injection capacity	1000cm ³	1500cm ³	2000cm ³	2500cm ³	4000cm ³
Screw diameter	φ 40mm	φ 45mm	φ 45mm	φ 50mm	φ 55mm
Screw rotational speed	0 - 120r/min				
Plunger diameter	φ 80mm	φ 85mm	φ 75mm	φ 110mm	φ 115mm
Injection pressure	170Mpa	170Mpa	170Mpa	170Mpa	170Mpa
Mould opening stroke	450mm	500mm	500mm	500mm	600mm
Motor power	7.5+5.5kw	11+5.5kw	11+5.5kw	11+5.5kw	11+7.5kw
Heating power	16kw	16kw	19kw	22kw	26kw
Dimension (L x W x H)	2695x1960x3950mm	2835x2140x4200mm	3600x2460x2400mm	3000x2504x4600mm	5000x3100x3250mm
Weight	8000kgs	10000kgs	11000kgs	12000kgs	13000kgs



"C"Frame Transfer Molding Pressing (rubber belt joint machine)

"C"Frame Transfer Molding Pressing (rubber belt joint machine)

Initial state-the mould moves to lower heating platenclose the mould, increase pressureput material in manually, injection pole goes down, inject the materialexhaust-vulcanize-open mould-pushing out the mould-pull mould by hand-take out the product



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Plate vulcanizing press for rubber



Initial state—Put the material into the mould, reposit the ejector cylinder—Load the mould—Close the mould quickly—Clamp the mould slowly, increase pressure—Exhaust/Vulcanization start—Vulcanization finish—Open mould quickly—Pushing out the mould—Ejector cylinder works, and separate mould and product—Take out the product

Model	XLB-D350 x350/400	XLB-D400 X400/630	XLB-D450 X450/1000	XLB-D500 X500/1000	XLB-D550 x650/2000	XLB-D650 X700/3000	XLB-D850 X1000/4000
Clamping force	400KN	630KN	1000KN	1000KN	2000KN	3000KN	4000KN
Max system pressure	23MPA	23MPA	23MPA	23MPA	23MPA	23MPA	23MPA
Clamping stroke	250mm	250mm	300mm	300mm	300mm	350mm	400mm
Rapid clamping speed	≥20mm/s	≥50mm/s	≥50mm/s	≥50mm/s	≥50mm/s	≥40mm/s	≥50mm/s
Heating plate size	350x350mm	400x400mm	450x450mm	500x500mm	550x650mm	650x700mm	850x1000mm
Heating plate spacing				200–400mm	180–480mm	300–500mm	200–500mm
Max. temperature	250°C	250°C	250°C	250°C	250°C	250°C	250°C
Number of working layers	2 layer	2 layer	2 layer	1 layer	1 layer	1 layer	1 layer
Space	125mm	125mm	150mm	250mm	300mm		
Max. ejector force			60KN	60KN	60KN	100KN	
Motor power	2.2kw	4kw	4kw	4kw	5.5kw	5.5kw	7.5kw
Heating power	7.2kw	9.6kw	11.7kw	9.8kw	14kw	19kw	34kw
Dimension (L x W x H)MM	1260x820x1540	1450x900x1575	150x1430x1660	1790x2100x1775	2020x2500x2000	2100x2700x2200	2300x3500x3000
Weight	1000kgs	1750kgs	2720kg	2900kg	4500kgs	5500kgs	12700kg
Oil tank capacity	210L	150L	250L	265L	350L	350L	360L

ZXB-3RT vacuum heat compression forming machine



Model	ZXB-10	ZXB-12	ZXB-14	ZXB-16	ZXB-18	ZXB-22
Piston diameter (inch)	10	12	14	16	18	22
Piston diameter(mm)	250	300	355	400	457.2	560
Clamping force(ton)	100	150	200	250	350	500
Heating plate size (mm)	405x430	450x480	505x510	570x610	700x700	700x700/ 800x950
Daylight(max.)mm	300	300	300	300	300	300
Stroke(mm) mm	250	250	250	250	250	250
Heater capacity per unit(kw)	8	11	14	15	16	18
Combined units to be a full set of equipment	1,2,3,4,	1,2,3,4,	1,2,3,4,	1,2,	1,2	1,2
Angle of lifting	45	45	45	45	45	45

The production process for waste tire recycling machinery

Waste Tires-Wire bead cutter tire cutter-Wire bead extractor-Tire Crusher-Secondary rubber shredder-Magnetic Separator-Fine rubber shredder-Airflow classifier-Magnetic separator-Storage Tank-Double Millstone grinder-Vibration screen machine-Airflow Classifier-Auto bag feeder

Four Features:

1. To granulate radial tires into fine rubber crumb of 40–120 mesh with steel and fiber completely recycled at ambient temperature.
2. Tight construction, small space and simple technique flow.
3. Low energy-consuming and good performance-cost ratio.
4. High automatization, fewer labors required.



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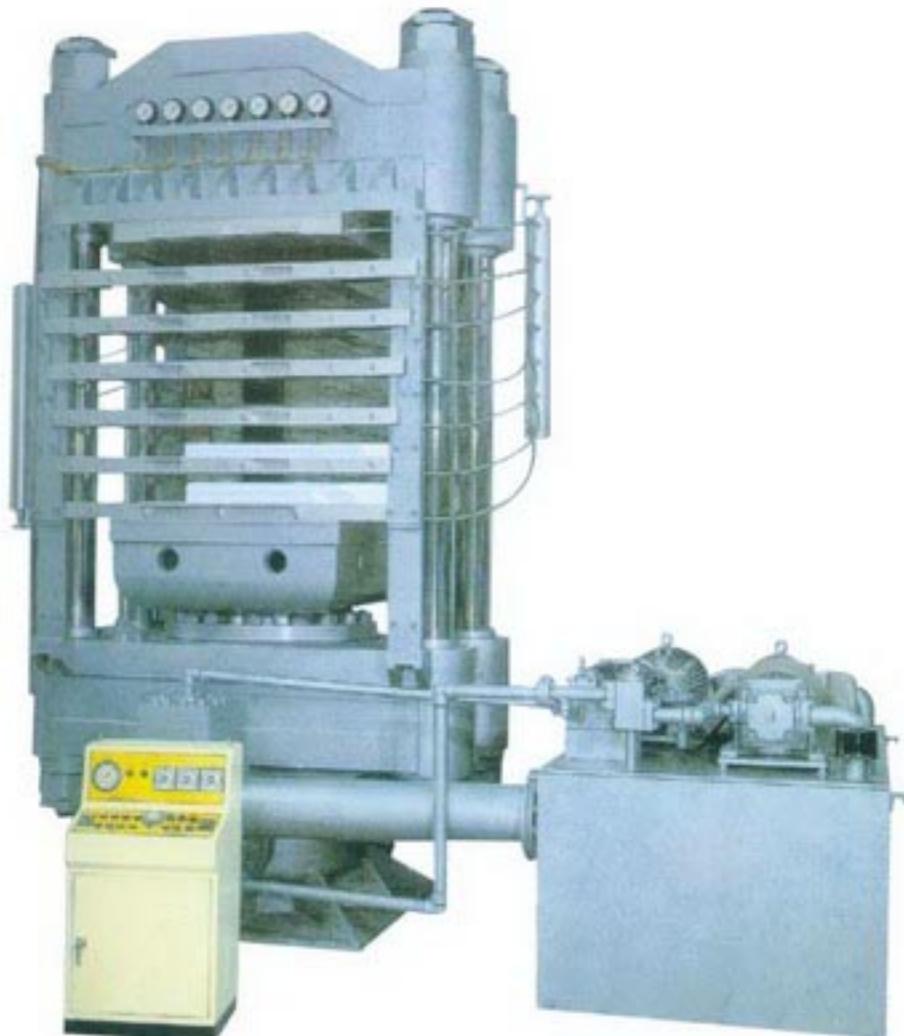
EVA foamed pressing machine

Application:

It is used for EVA foaming, PVC foaming, rubber foaming machine.

Specifications

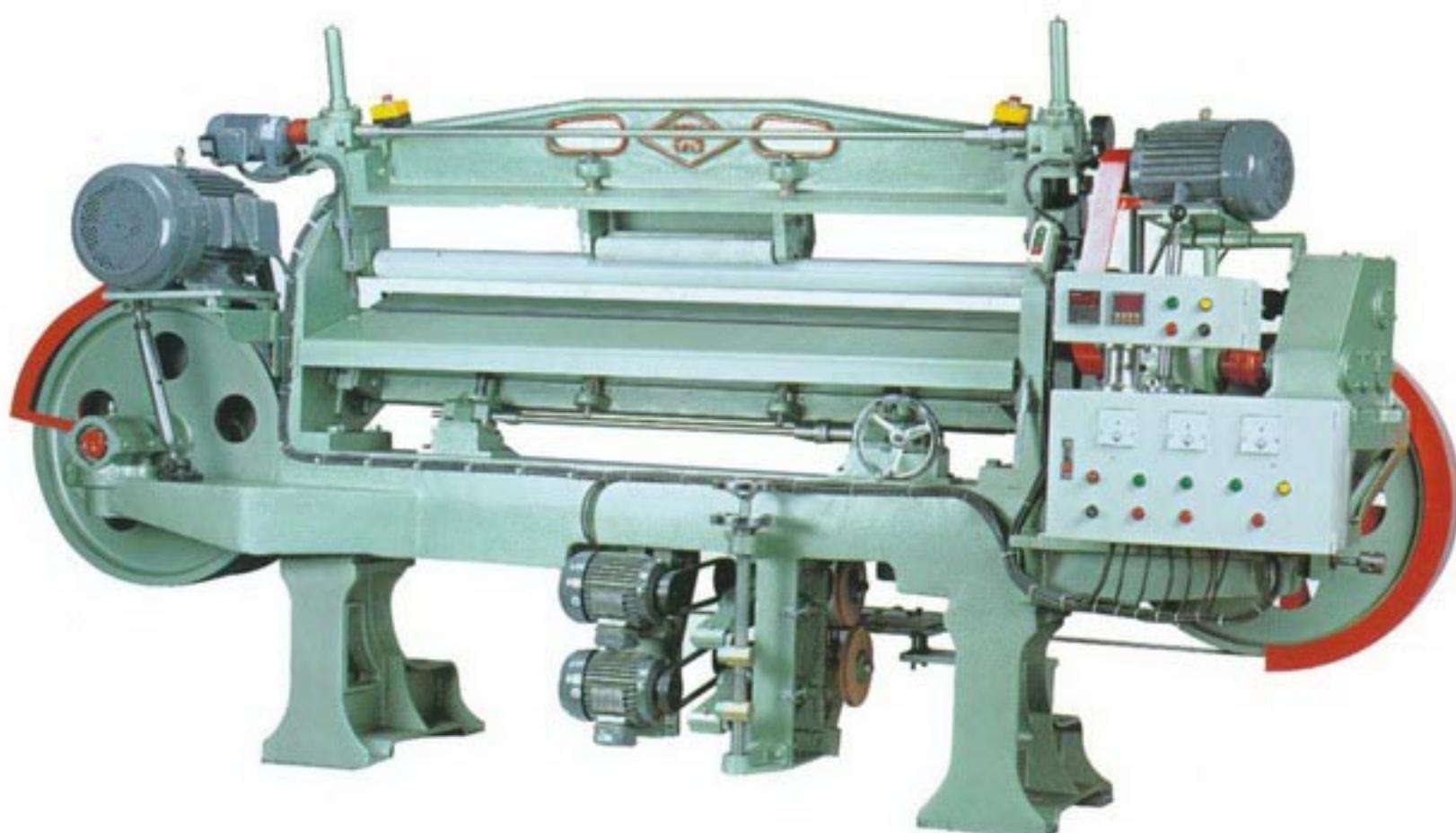
Model	Piston	Hot Plate	Distance	Step
580A	24 "	1000x1000(mm)	120mm	5
580B	24 "	1000x1200(mm)	120mm	6
680A	26 "	1000x1200(mm)	150mm	6
680B	26 "	1200x1350(mm)	150mm	6
900A	30 "	1200x1350(mm)	150mm	6
900B	30 "	1200x1500(mm)	150mm	6
900C	30 "	1300x1500(mm)	150mm	6
1000A	32 "	1000x1500(mm)	150mm	6
1000B	32 "	1400x1500(mm)	150mm	6
1000C	32 "	1400x1600(mm)	150mm	6
1000D	32 "	1400x1700(mm)	150mm	6
1000E	32 "	1400x1500(mm)	135mm	8
1300A	36 "	1400x1600(mm)	150mm	6
1300B	36 "	1250x1300(mm)	80mm	12



PE & EVA breaking machine

PE & EVA Breaking Machine

Application: It is suitable for the highly and lowly foaming and processing of rubber, PE and EVA. Featuring high speed and high accuracy.;



Physical diagram



Purely Compact Rubber Strip



Compact Rubber Strip for Containers of Motor Vehicles



Compact Rubber Strip for Windshield of Automobiles



Rubber Water Stopper Strip



Silicon Rubber Strip



Air-Conditioner Insulating Slabs and Insulating Tubes



Sheath Tubes for Health-Building Apparatus



Rubber Compact Sponge Dual-Composite Strip



Rubber Sponge (Foamed) Strip



Compact Sponge Metal Framework
Trinary- (Quaternary-) Composite Rubber Strip



Insulating Strips for Doors
and Windows of Building



Flocking Rubber Strips
(Rubber & Plastic Composite Strip,
and Plastic Decorating Strip, etc)

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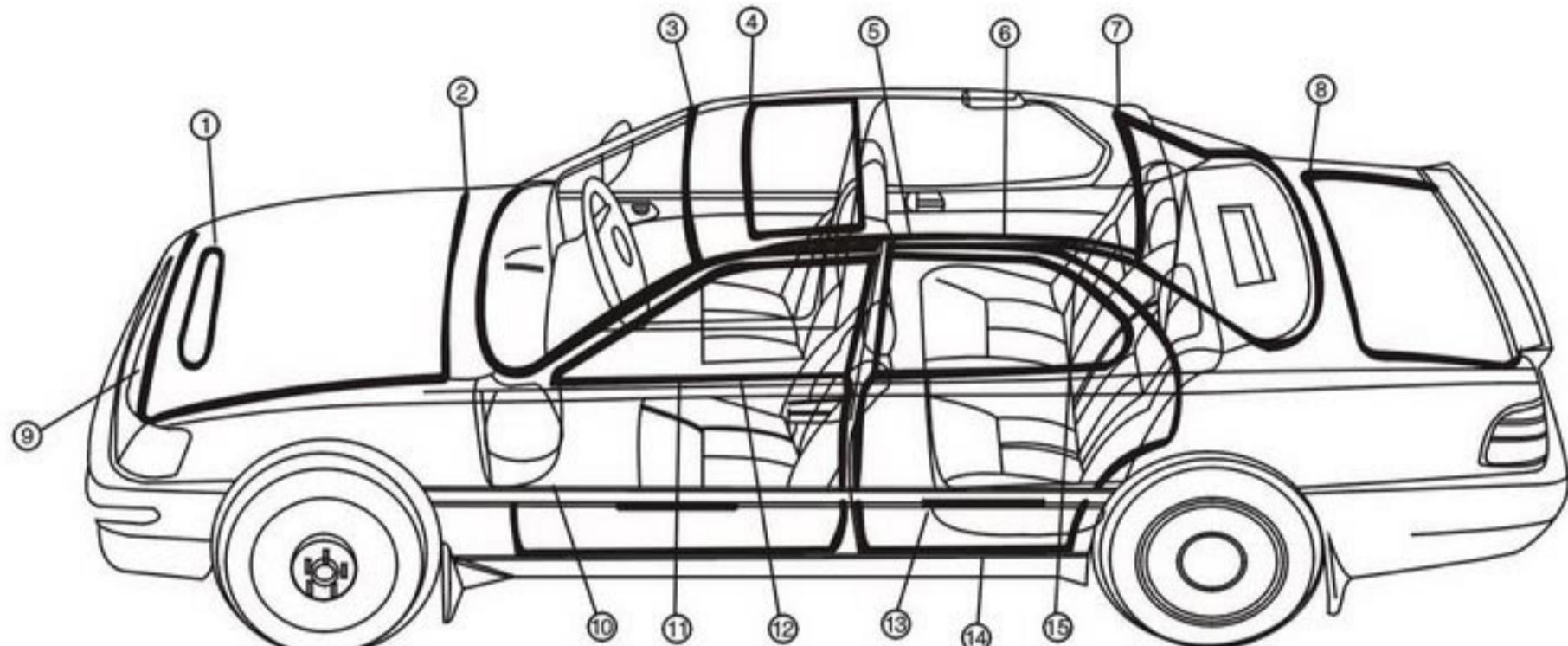
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Section drawing



① Radiator seal



② Bonnet seal



③ Windshield w/s(front)



④ Sun roof w/s



⑤ Drip rail(Drip w/s)



⑥ Primary door seal
(Door outer w/s)



⑦ Windshield w/s (rear)



⑧ Boot seal
(Luggage compartment w/s)



⑨ Engine hood seal
(Engine compartment w/s)



⑩ Glass run channel



⑪ Waist belt-outer r



⑫ Waist beltinner r



⑬ Glass channellower

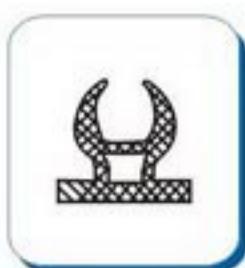


⑭ Door seal
(Door opening w/s)

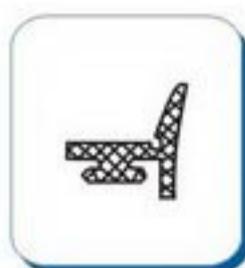
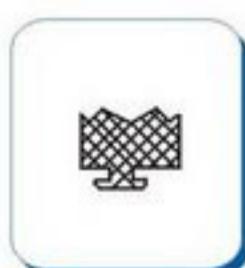


⑮ Glass framing w/s

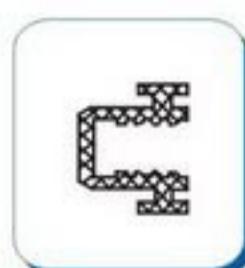
Door and window, curtain wall(section drawing of rubber insulating strip)



MSR-001

G-004
MSR-002G-007
MSR-003G-009
MSR-004G-030-1
MSR-006G-031
MSR-008G-034
MSR-010

G-032

LV-H03
MSR-012

G-033



MSR-014



MSR-015

G-036
MSR-016SPAL-G01
MSR-024

MSR-026



MSR-027



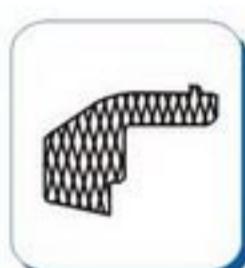
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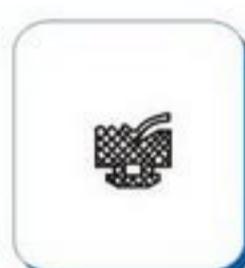
MSR-029



MSR-030



MSR-035

E001JT01
MSR-040E002JT-02-01
MSR-041GS-03
MSR-044JHJT-02
MSR-046GS-05
MSR-048GS-04
MSR-049

MSR-051

JHM-02
MSR-052

MSR-064



MSR-065

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