



YIZONG MACHINERY



*Product Catalog*

# *Company profile*

DongGuan Yizong Machine Equipment is a professional manufacturer that mainly engages in designing,R&D,manufacturing, selling and maintaining the plastic ,rubber, powder metallurgy, ceramic powder, magnetic powder and all of the chemical material compounding and granulating equipment .

Our main products includes as follows:

1. Intensive (Banbury ) mixer
2. Dispersion Kneader & Lab Kneader
3. Mixing mill
4. Calender Products List
5. Twin Screw Roller Pelletizing Extruder
6. Sigmal mixer
7. Batch off machine Products List
8. Vulcanizing (Curing) press machine
9. Reclaimed rubber machinery Products List
10. Stock blender for rubber & plastic
- 11.High performance raw rubber cutter Products List



# *Company Profile*

We concentrated on the research, development, production, sales and service of machinery.

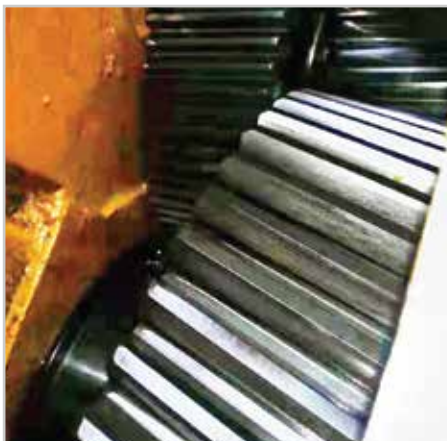
From design, casting, processing, mechanical assembly, electrical design and setup etc We have very strict inspect rule to ensure every project can meet or even exceed customer's requirements in aspects of performance and precision.

For so many years ,Yizong Machine equipment devoted itself on the product innovation and customer service, warmly obtained all the customers' reliance & support. We Offer You High Quality and Performance ,High Precision and Excellent Service and Lifelong Technique Support but VERY Competitive price that you can find in the market!

# *Pressure Dispersion Mixer for Rubber and Plastics*

## *Features:*

The dispersion kneader consist of pneumatic control system, electric control system, tilting mechanism, mixing chamber, main driving system, dust sealing device, thermal resistance, rotor and cooling/heating system. The rubber kneader is designed for molding and mixing variety of materials ranging from low viscosity adhesive to high viscosity polymers, it is used for Usable for rubber or plastic plasticizing and mixing or rubber and plastic blending. Suitable for Hoses Compound, Silicon Rubber, synthetic,Gaskets, Sponge, Soles, Sandals, Automobile, recycled rubber or plastic, E.V.A. Phenol, Polythene, Thermoplastic Resins & Allied Rubber Industries.

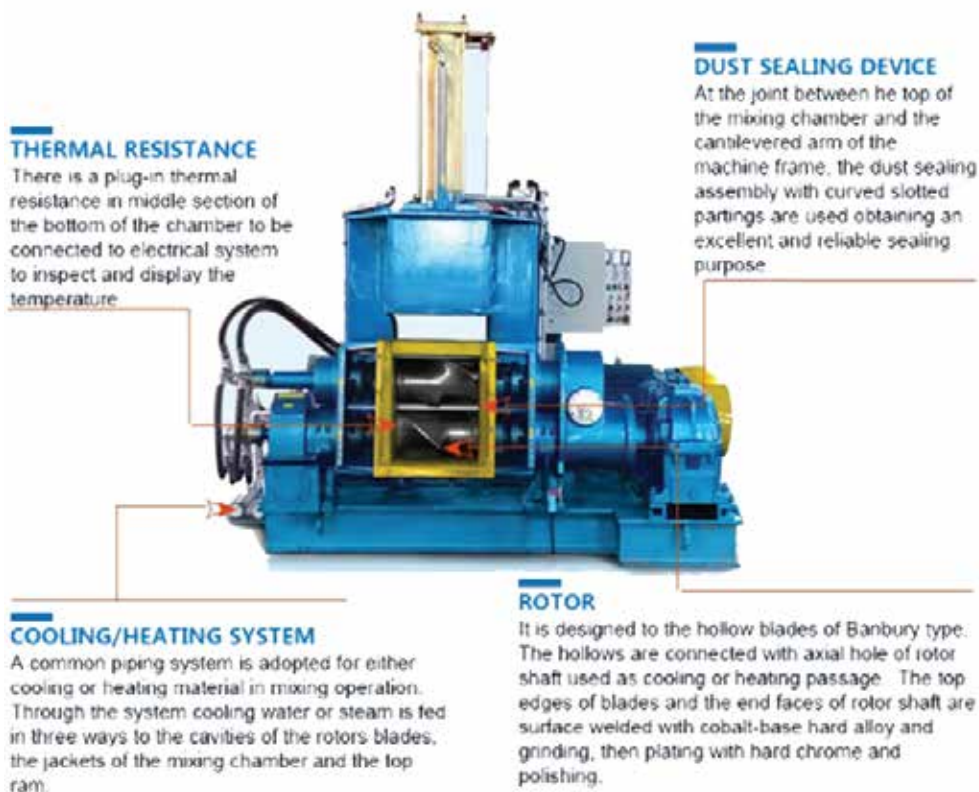
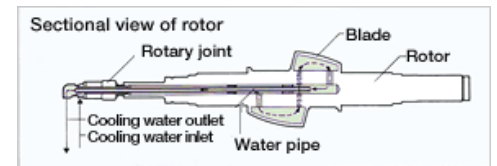
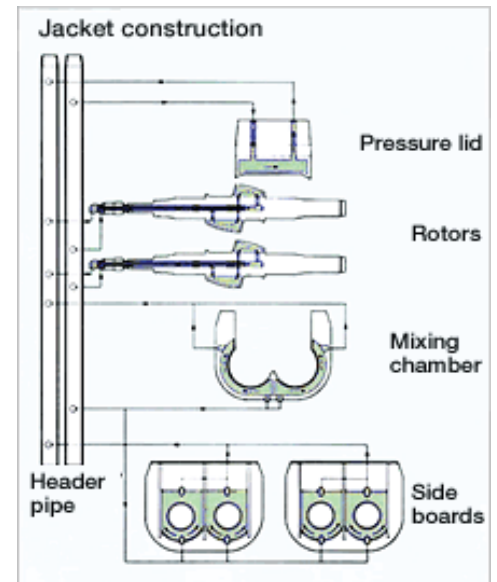


# Pressure Dispersion Mixer for Rubber and Plastics

## Structure

Why do you need our dispersion kneader:

- You need much greater production.
- You need perfect Dispersion of Ingredients.
- You must avoid loss of expensive ingredients to atmosphere.
- Colours & ingredients change frequently.
- You need dust-free mixing.
- You want to use your space most profitably.
- You want to save on energy.
- Shortage of trained workers hits you frequently





# *Pressure Dispersion Mixer for Rubber and Plastics*

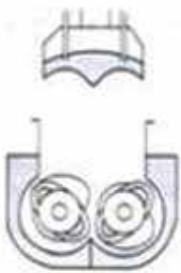
Electric Tilting Device



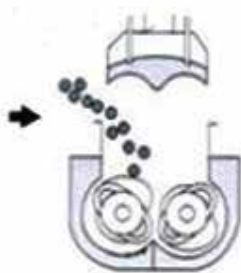
Hydraulic Tilting Device



Before feeding



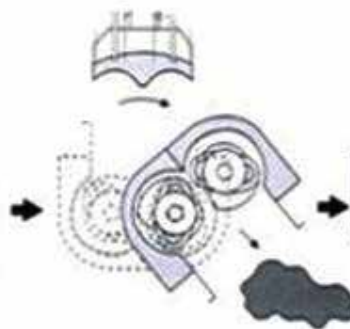
Feeding



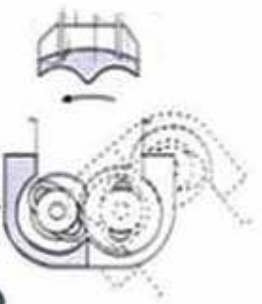
Mixing



Discharge



Recover



## *Applications*

- Rubber product for Automobile (Oil seal, Body seal, Gasket, Belt, Hose, Tube)
- Electric wires (Rubber, Plastic, Wire harness)
- Belt (Power transmission belt, Conveyor belt)
- Roll (Rubber, Plastic, Printing, Copying machine)
- Rubber product for Medical (Plug, Cap, Glove, Dental)
- Sporting goods (Golf ball, Athletic ball)
- Food (Chewing gum)

# Pressure Dispersion Mixer for Rubber and Plastics

## Technical Parameters

Specifications of 1L ~ 200L Rubber (Plastic) Dispersion Kneader

Item	Model	X(S)N-1×12~58	X(S)N-3×32 (6-60)	X(S)N-10×32	X(S)N-20×32	X(S)N-35×30	X(S)N-55×30	X(S)N-75×30	X(S)N-110×30	X(S)N-150×30	X(S)N-200×30	
Total volume of mixing chamber	L	3	8	25	45	75	125	180	250	325	440	
Working volume of mixing chamber	L	1	3	10	20	35	55	75	110	150	200	
Driving motor power	Kw	4	5.5	15	30	55	75	110	185	220	280	
Tilting motor power	Kw	Manual	0.55	1.1	1.5	2.2	2.2	4	4	5.5	7.5	
Tilting angle	°	≤140	135	140	140	140	140	140	140	140	140	
Rotational speed of the rotor (front/rear)	r/min	12~58	6-60 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	
Pressure of compressed air	Mpa	0.5-0.8	0.5-0.8	0.5-0.8	0.5-0.8	0.5-0.8	0.6-0.8	0.6-0.8	0.6-0.8	0.6-0.8	0.6-0.8	
Capacity of compressed air	M <sup>3</sup> /min	≥0.3	≥0.3	≥0.5	≥0.7	≥0.9	≥1.0	≥1.0	≥1.5	≥2.0	≥2.0	
Pressure of cooling water (rubber mixing)	Mpa	0.2-0.4	0.2-0.4	0.2-0.4	0.2-0.4	0.3-0.4	0.3-0.4	0.3-0.4	0.3-0.4	0.3-0.4	0.3-0.4	
Pressure of heating steam (plastics mixing)	Mpa	0.5-0.8	0.5-0.8	0.5-0.8	0.5-0.8	0.5-0.8	0.5-0.8	0.5-0.8	0.5-0.8	0.5-0.8	0.5-0.8	
Overall dimension	L	mm	1400	1660	2580	2630	3200	3280	3330	3930	4200	4520
	W		760	960	1300	1520	1900	1930	2620	3000	3300	3400
	H		1914	1750	2280	2550	2950	3070	3340	3660	3900	4215
Weight	Kg	800	2000	3300	4000	6300	7500	10300	14200	19500	22500	

## Spare Parts



Emergency stop switch



Grease gun



AC contactor



Dual screwdriver



Travel switch



OMRON relay



Adjustable wrench



Brush

# *Lab Rubber Dispersion Kneader*

## *Introduction*

This Laboratory rubber kneader mixer has one pressurized and sealed mixing chamber, which provides high mixing performance and prevents the environment. Its automatic temperature and time control system provides a 100% mixing result. The kneader rubber mixer is applicable to rubber, plastic, EVA, TPR, sole, Tire, master batches, pigment, ink, electric rubber parts and chemical industry. It has been recognized by factory lab, universities and R&D institutions for recipe researching and small-scale production.





# *Lab Rubber Dispersion Kneader*

*Laboratory Kneader with Water cooling system*



# *Lab Rubber Dispersion Kneader*

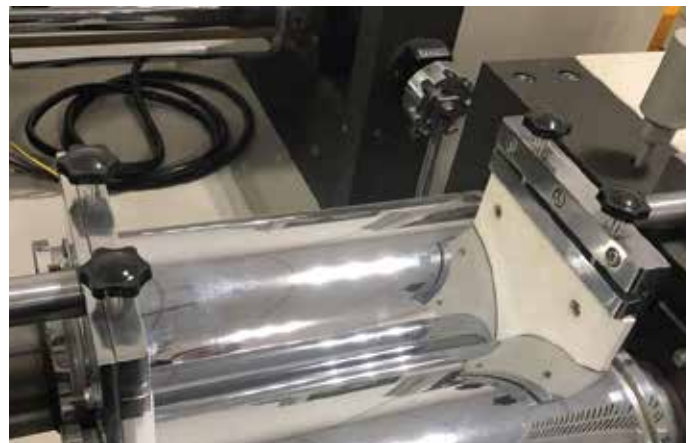
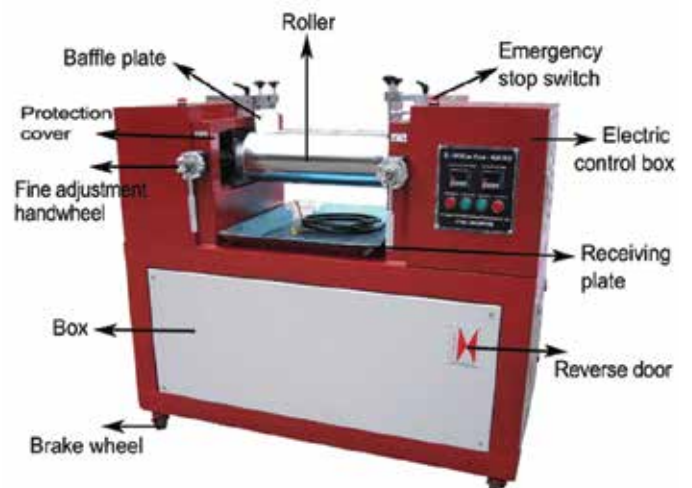
## *Technical Parameters*

<b>Laboratory kneader machine</b>	
Mixing Capacity	0.5L/1L/1L/3L/5L
Rotor Speed (Front/back)	40/31r/m
Cylinder Diameter of top peg	80mm
Compressed air	0.5~0.8MPa
Heating power	10KW
Heating mode	Oil/electric/steam heating
Temperature	room tempe ~300 °C
High tempe oil pump	0.75KW-350°C wheel coupled(lift: 20m, flow: 3m <sup>3</sup> )
W type mixer chamber	2- $\phi$ 138 x 200mm high-carbon steel
Mixing blade	2- $\phi$ 137 x 200mm high-carbon steel
Power of main motor	5.5 KW
Rotate speed of motor	1440rpm
Tilt angle of Mixing chamber	110°
Power of tilt Motor	0.75 KW
Power	3 $\phi$ , AC380V

# Lab Rubber Mixing Mill

## Introduction

Lab rubber mixing mill machine adopts special heated mold, roll surface temperature uniformity, used to uniformly mix the raw material for testing and apply the experiment results and its ratio in the production line to satisfy the requirement of quality and color specified by the customers.

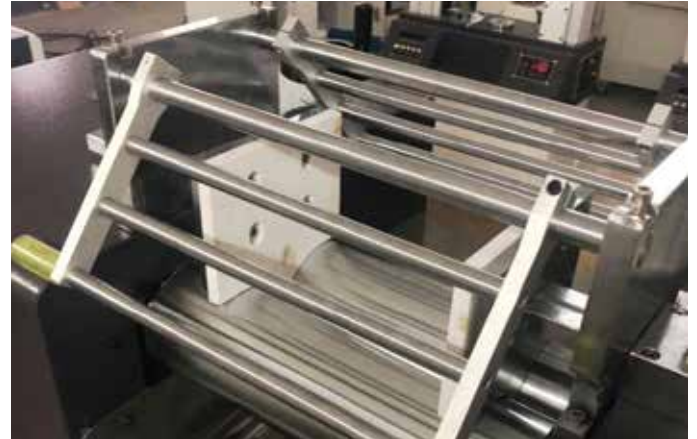


Roll adopts the vanadium titanium alloy chilled cast iron, roll hardness (HRC)50-60, surface is hard wear-resisting, durable. Roller lumen finish machining to ensure that the roller body cooling quickly and evenly.

# *Lab Rubber Mixing Mill*



Speed and speed ratio can be adjusted for both roller



Guard fence design for safety

## *Application*

The mixing mill is used for plasticizing, mixing, thermal refining and sheeting of rubber (plastic). It is suitable for plastic industry polymer material mixing and processing such as, PVC, color master, it is widely used for tyre factory, conveyor belt factory, reclaimed rubber factory and shoes factory, etc.



# Lab Rubber Mixing Mill

## Technical Parameters

Technical Parameters			
Roller Diameter (Metric/inch)	120mm/4inch	160mm/6inch	200mm/8inch
Roller Face Width	320mm	320mm	320mm
Mixing Capacity	0.3-2kgs	0.5-3kg	1-10kg
Picking Device	SUS304 Stainless steel hopper	SUS304 Stainless steel hopper	SUS304 Stainless steel hopper
Roller Temperature	~300℃	~300℃	~300℃
Heating Method	electrical heating	electrical heating	electrical heating
Temperature Accuracy	±3℃	±3℃	±3℃
Temperature controller	PID control	PID control	PID control
Roller Rev	frequency control	frequency control	frequency control
Roller Radio Adjusted according requirement	1:1.22/1:1.35 1:1.4	1:1.22/1:1.35 1:1.4	1:1.1/1:1.22 1:1.4/1:1.7
Hardness of Roller	50~60HRC	50~60HRC	50~60HRC
Roller Processing	Mirror polishing chrome plated	Mirror polishing chrome plated	Mirror polishing chrome plated
Roller Spacing	0.1~8mm adjustable	0.1~8mm adjustable	0.1~8mm adjustable
Safety device	Collision type emergency stop	Collision type emergency stop	Collision type emergency stop
Special function	Emergency stop inversion	Emergency stop inversion	Emergency stop inversion
Motor power	4.5KW	5.5KW	7.5KW
Power Voltage	3 φ , AC380V	3 φ , AC380V	3 φ , AC380V
Dimension	1*1.1*1.4 (M)	1*1.1*1.5 (M)	1.5*1.2*1.5 (M)
Weight	≈2T	≈2.5T	≈3.4T



# Rubber Vulcanized Pressing Machine

## Introduction

The rubber vulcanizing pressing machine allow material placed in the casting mold and clamped between the electric-heating flat plates to apply pressure and temperature, make the material shaping, testing and serving as the basis for the ingredient of mass production



Manual vulcanizing press

# Rubber Vulcanized Pressing Machine

## Technical Parameters

Product name	Lab Rubber Mould Vulcanizer Press Hydraulic Machine
Capacity	10~50ton select-able
Temp. Range	Room temp. ~300℃
Temp. Controller	LED Indicator,press key set input, the value indicate output
Timer	LED display,time range 0.1S~99min~9.9hr
Heating type	Electrical Heating module
Hot pressure plate	300×300mm
Cold pressure plate	300×300mm
Distance of pressure plate	100mm
Pressure material	SKD chromium-molybdenum alloy
Pressure surface	Mirror chrome plated
Working temperature	Room temp. ~+5℃
Cooling type	Tap water cooling/compressor cooling water(optional)
Oil pressure system	The proportion hydraulic pressure current capacity loop circuit control system,the GPY oil pump driver high performance electroencephalographic matching high accuracy non resistance piston of oil cylinder carry out constant speed rate control mode,can p reelection one, two times pressure and time.
Oil cylinder stroke	Max 200mm
Oil cylinder speed	11mm/s
Pressure gauge	0~350kg/sq.cm
power	10.6HP
Dimension W×D×H	1000×500×1500 mm
Power supply	AC380V,20A
Weight	About 658kg

## Application

The lab vulcanizing press are applies to all kinds of rubber (natural rubber, EPDM rubber, NBR rubber, synthetic rubber, silicone rubber ext. ) vulcanizing and compression molding,it can be used to make O ring, sealing parts, oil seal, auto parts, rubber crash pad, rubber air spring, key board, medical rubber parts, rubber bottle stopper, silicone wrist band, water-stop tape, bridge support/bridge bearings, rubber cable, electronics insulators etc.

# Calender Machine

## Features:

Roller calender machine is necessary machine for making rubber & EVA sheet in rubber industries ,It usually consist of one motor,one gearbox reducer, ratio gear and main rolls(2/3/4 rolls ), rolls are hollow type

it have two roll, three roll or four roll calender, customer may choose different type or model according to their product and technology,requirement.



Two roll calender machine,used for making the P.V.C floor tile or automobile tyre, footwear etc



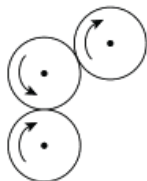
Three roller calendering machine,used for making rubber sheets, and for coating or friction one side or tyre cord with rubber

## Design of Roller

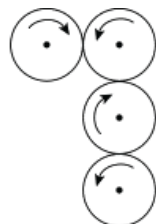
According to the arrangement of the rolls, it can be divided into "L" type, "T" type, "F" type, "Z" type and "S" type, etc



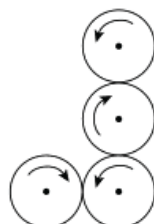
(a) Three roll vertical



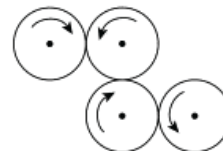
(b) Three roll inclined



(c) Inverted L



(d) L type



(e) Flat Z



(f) Inclined Z or S

# Calender Machine



4 roller calender, used for coating double side of tyre cord with rubber and for making rubber or PVC sheets



The roller is made of chilled alloy cast, the surface hardness is  $HS70 \pm 2$ . Chilled thickness 8-15mm.

## Applications

These calendaring machinery are applied for calendaring of rubber or plastics, fabric fraction and coating, sheeting and composite of rubber or plastics. The calender machine are widely used in Textile (cloth, canvas, etc.) of glue and eraser, steel cord adhesive, rubber compression and pressure type, Sheet Gauging, hoses belting, sheeting in lining, films, profiling, hospital bed sheets, fractionating tyre fabrics for auto tyres and laminating doubling and pasting of fabric with rubber sheets etc

# Calender Machine

## Technical Parameters

### Technique Parameters

Roll Diameter	mm	230	360	400	450	610	710	
Roll Working	mm	630	1120	1400	1500	1730	2130	
Middle Roll Linear Speed	r/min	0.8-8	3-21.06	3-26.39	2.62-26.2	5.4-54	8-50	
Adjustable Nip Range	mm	0-7	0-10	0-10	0-6	0-20	0-20	
Min Calendering product	mm	0.2	0.2	0.2	0.2	0.15	0.15	
Calendering product width	mm	100-500	500-920	1200	1400	1500	1900	
Motor power	KW	7.5	45	55	75	132	185	
Overall Dimension	L	mm	3168	5550	6500	7420	7010	7650
	H	mm	890	1640	1500	2200	3950	4560
	W	mm	1830	2120	2440	2900	3730	4080
About weight	t	2.6	11	22	26	52	67	

Our machines are also used for plastics processing, PTFE, filtration media, and paper processing functions for our calender machines include material compression and surface finish



# Lab Extruder Machine

## Features:

Lab mini Granule extruder machine is used for plastic modification test, pipe extrusion test, filament extrusion test and granulation test with different moulds, it can process all kinds of plastic materials such as soft/hard propene Polymer (PP) and polystyrene(PE), it mainly used for Laboratory testing, or making small PP/PE/ABS/PC/PVC plastic products.



## Application

This lab mini extruder is designed for medical, university and research center to meet various applications of compounding and reaction extrusion, it is widely used for test or lab research with small capacity and low energy consumption, it is applied for chemical enterprise, scientific research institution, college and university lab.

# Lab Extruder Machine

## Other Series



Model No. YZSM-010



Model No. YZSM-020



Model No. YZSM-026



Model No. YZSM-028

# Lab Extruder Machine

Other Series



Model No. YZSM-035

## About Materials



PET flake



TPR elastomer



PP



PE



ABS



PVA



LCP

# Rubber Bale Cutter

## Features:

This bale cutter mainly consists of rubber knife, frame, cylinder, base, auxiliary table, hydraulic system, and electric system, It is mainly used to cut the natural rubber, synthetic rubber, and other plastics materials in different sizes.

We have both, semi and fully automatic cutters



## Highlights

- \*High precision & productivity
- \*Fully automated mechanism
- \*Reduced labour work
- \*Maintains uniform thickness
- \*Precision length of the rubber bale
- \*Smooth operation & more production

# *Rubber Bale Cutter*

## *Technical Parameters*

<b>Rubber Bale Cutter</b>		
Type	YZRCM-002	YZRCM-003
Width(mm)	660	1000
Stroke(mm)	680	680
Diameter of the piston (mm)	150	150
Time Taken by the Stroke (second)	16-25	10-16
Power (KW)	5.5	5.5
Overall Dimension (LxWxH)	1900×720×2580	2240×720×2580
Machine Type	Hydraulic and automatic	
Weight (kg)	1500	2000

## *Applications*

The rubber bale splitter is mainly used to cut the natural rubber, synthetic rubber, and other plastics materials, especially it is suitable to be installed near the rubber mixer to cut small piece of rubber

If you have any questions about mixing and sheeting problems ,please feel free to contact our engineers,we are always be here happy to offer you with the best solution





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