



Miza company for Import and Export.

Email: miza_ly@outlook.com.

Tel.1:+447477838391 - Tel.2: +861538333135 - Tel.3: +218917333191

مستفيد شركة ميرة ليبيا - طرابلس - رقم الهاتف_01: 091733319 - رقم الهاتف_02: 0913103162 - رقم الهاتف_03: 0923103162

Address: Al-Masira Al-Kubra Street / Opposite Al-Jumhouria Bank - Tripoli (Libya)

التفوان: شارع المسيرة الكبرى / مقابل مصرف الجمهورية - طرابلس (ليبيا)

20-40mesh	Rubber color floor bricks, reclaimed rubber, sole, waterproof coiled material, Modified asphalt used in the construction of highway, all kinds of rubber vibration-insulation pad and so on
40-60mesh	Modified asphalt used in the construction of highway, all kinds of
	rubber product manufacture, waterproof coiled material, sports facilities, reclaimed rubber and so on
60-80mesh	Raw material of tire production from waste tyre recycling machine, Modified asphalt used in the construction of highway, reclaimed rubber, conveyer belt and so on



شركة ميرة للإستيراد والتصدير
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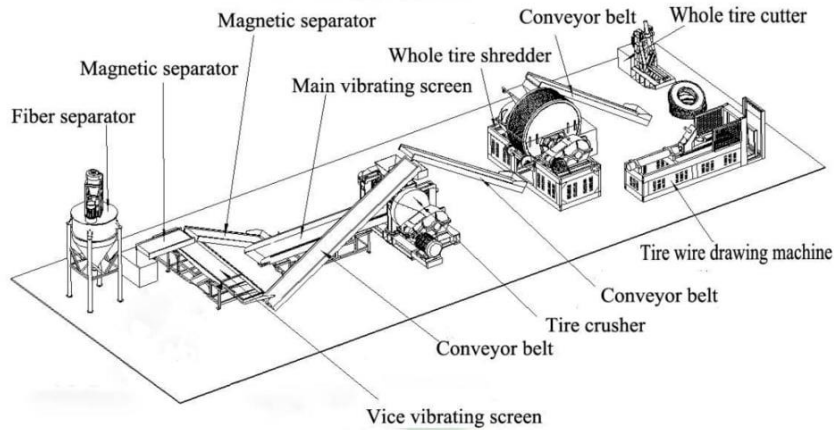
مشتوية خريضة هودة ليبيا - طرابلس - رقم الهاتف: 01, 091733319 - رقم الهاتف: 02, 0913103162 - رقم الهاتف: 03, 0923103162

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العنوان: شارع المسيرة الشري / مقابل مصرف الجمهورية - طرابلس (ليبيا)

Quotation of Auto-400 Automatic tire recycling machine (Capacity: 6T/day in 26-30mesh, 12T/day in 5-10mesh)

The Working Process: Draw steel wire from the tire ring by Tire wire drawing machine—if the diameter of tire is bigger than 900mm, can choose to use tire cutting machine to cut the tire to several pieces--- put the small tires or pieces into tire shredder to make tire blocks—put the tire blocks to the tire crusher to make rubber powder—remove the metal from the rubber powder with magnetic separator-- separate the nylon from the rubber powder with Fiber separator--finished rubber powder/rubber granule



I. Price of each machine

No.	Name	Motor power	Auto-400 FOB Qingdao price(USD)
1	TD-1200 Tire debader/Wire drawing machine	11kw	\$9,915
2	TC-1200 Tire cutting machine	5.5kw	\$8,540



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3	TS-800 Tire shredder (include 2 conveyor belts)	65.5kw	\$39,018
4	Conveyor belt	1.5kw	\$2,166
5	XKP400 Tire Crusher(Hyperbola gear reducer)	45/55kw	\$29,182
6	Main vibrating screen	5.5kw	\$1,935
7	Conveyor belt	1.5kw	\$1,480
8	Magnetic separator	2.2kw	\$2,058 (\$1,029*2)
9	Vice vibrating screen	1.5kw	\$2,155
10	TFS100 Fiber separator	11kw	\$8,392
Total FOB Qingdao price(USD)		150.2/160.2kw	\$104,841
If all your tires are radial tires, no need the fiber separator.			

II. Analysis for Output

Input: Waste Tire/Waste Rubber

Output: 5-40 mesh Rubber Powder

Model NO.	Capacity	
Auto-400 line	10 mesh(2.5mm)	400-500kg/h
	20 mesh(1.25mm)	300-350kg/h
	30 mesh(0.83mm)	240-280kg/h
	40 mesh(0.63mm)	150-175kg/h

Requirement of factory area: L: $\geq 15M$, W: $\geq 15M$, H: $\geq 5M$.(Square)

L: $\geq 26M$, W: $\geq 8M$, H: $\geq 5M$.(Long-in two lines)

Labor needed: 3-4 workers

Noise generated: Less than 70 decibel



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III. Specification of auto400 tire recycling machine

	--1. TD-1200 Tire wire drawing machine	
	Model	TD-1200
	Feed size of tire(mm)	≤φ1400
	Capacity(tires/h)	30-40
	Power(KW)	11
	Overall dimensions(m)	4.1*0.9*1.7
	Equipment weight (T)	1.8
Application: used to draw out the steel loops from the tire bead.		
	--2. TC-1200 Tire cutting machine	
	Model	TC-1200
	Feed size of tire(mm)	≤φ1400
	Capacity(tires/h)	30-40
	Power(KW)	5.5
	Overall dimensions(m)	1.8*0.9*1.85
	Equipment weight (T)	1.5
Application: used to cut big tires to tree pieces or smaller pieces.		
	--3. TS-800 Tire shredder	
	Name	Technical parameter
	Output(T/h)	1-3
	Feed size of tire(mm)	≤φ900
	Output size(mm)	≤50*50
	Power(KW)	22/30*2+4+1.5
	Speed(r/min)	15
	Equipment weight	9T
Application: is used for cutting whole tire to 50*50mm rubber block. (include 2 conveyor belts)		



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Tips:

- Both rollers are grooved which can improve the output.
- Roller material is Alloy 5Cr6MnMo.
- 3 years warranty to the rollers.
- There are 8 pieces bearing inside the machine, all rolling bearing.

--4. Conveyor belt

Name	Technical parameter
Motor power	1.5 KW
L*W*H	6.0*0.9*2.4m
Weight	1000 kg

Function: Connect tire shredder and tire crusher, used to transfer the tire blocks from tire shredder to tire crusher.

--5. XKP 400 Tire Crusher

(with Alloy 5Cr6MnMo rollers)

Model No.	XKP-400
Diameter of front roll	400 mm (groove)
Diameter of back roll	400 mm (groove)
Drum working length	600mm
Front roll liner speed	34.5 m/min
Roll ratio	1:2.5
Max roller spacing	10 mm
Motor power	45KW/55KW
Weight	8.5 T
L*W*H	4.3*1.8*1.6m

Function: This machine is mainly used to crush waste rubber products and natural rubber.



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	<p align="center">--6. Main vibrating screen</p> <p>Function:</p> <p>(1) Separate the rubber granule and powder, Resend the granule to crusher, and send powder to the first magnet separator for roughing separating.</p> <p>(2) Separate the steel wire and textile cord from rubber powder</p>												
	<p align="center">--7. Conveyor belt</p> <p>Function:</p> <p>To conveyor the rubber block and rubber granule into crusher.</p>												
	<p align="center">--8. Magnetic separator(2sets)</p> <p>The first magnetic separator is roughing separator, the second one is fine separator.</p> <p>Function: Separate the steel wire from the rubber powder.</p>												
	<p align="center">--9. Vice vibrating screen</p> <p>Function:</p> <p>(1) Separate the rubber granule and powder, Resend the granule to crusher, and send powder to the second magnet separator for fine separating.</p> <p>(2) Separate the steel wire and textile cord from rubber powder</p>												
	<p align="center">TFS1000 Fiber separator(optional)</p> <table border="1"> <thead> <tr> <th>Name</th> <th>Technical parameter</th> </tr> </thead> <tbody> <tr> <td>Motor power</td> <td>5.5 KW</td> </tr> <tr> <td>Air blower power</td> <td>7.5KW</td> </tr> <tr> <td>Capacity</td> <td>800-1000kg/h</td> </tr> <tr> <td>L*W*H</td> <td>1500*1500*3400mm</td> </tr> <tr> <td>Weight</td> <td>1600 kg</td> </tr> </tbody> </table>	Name	Technical parameter	Motor power	5.5 KW	Air blower power	7.5KW	Capacity	800-1000kg/h	L*W*H	1500*1500*3400mm	Weight	1600 kg
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Function: used to separate the fiber impurities, nylon from both nylon waste tire and steel wire tires



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التفوان، شارع المسيرة الكبرى / مقابل مصرف الجمهورية - طرابلس (ليبيا)

IV. Advantages of our machines



1. Advantage of our tire shredder!!!!

1) On the one hand, There are 2 layers of our cutters in shredders. It use the material of 5 chromium 6 manganese molybdenum outside and C45 (European standard) inside, which are very hard and durable. **The cutters won't broken and can be used for life-long time**, and you just need to use the hardfacing electrode to weld the cutters if some places are worn.

While some other companies are still using the cutters which are cast by molten iron. Although they also very hard, they are very brittle and easy to crack and broken. If the cutters broken, the users have to change the cutters and the cost will be very high. What's more, it will force the whole production line to stop.

2) On the other hand, The surfaces of our cutter are uneven. There are many **protruding points** on the cutters, which will add the friction force and feed the materials more easily. While the surfaces of other company's cutter are smooth and there is no **protruding point on them**.



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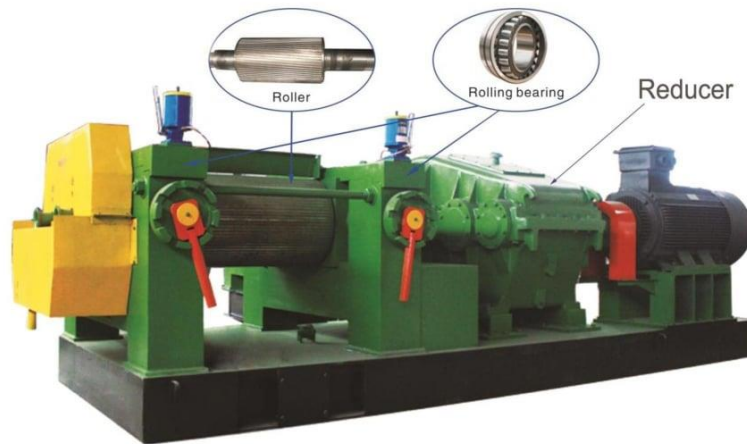
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2. Advantage of our rollers:

1)The material of our rollers adopts **5Cr6MnMo**,which is very strong and wear resistant. It is life-long time using, no need to change, only welding and polishing after long time using.

2)Our **both rollers are grooved**, the crush ability is stronger. While most others use **one grooved roller, one smooth roller** and they usually adopt **cast iron or cast steel for the rollers**, so it will be very easy to break.

3)The speed ratios of our rollers is **1:2.5**, others are **1:1.30**. As we all know, the bigger speed ratio difference is,the bigger friction, and the bigger capacity you get.

4)The guaranty time of the rollers is **3years**.



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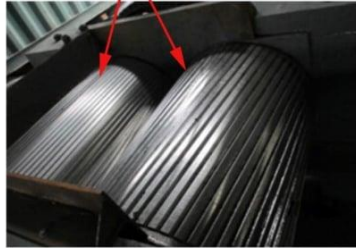
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Ours: Both rollers are grooved.



Others: one roller is grooved, the other one is smooth.



3. The advantage of our bearing

Our tire crusher has **8pieces double row long ball rolling bearing**. This kind of operation mode not only greatly reduce the friction and heat of the equipment, improve the work efficiency and working life of the equipment, but also reduce the energy loss, **save 1/3 power consumption** than traditional rubber equipment. For example, producing 1000kg rubber powder, our machine electricity consumption is only 150°-180°, while others' electricity consumption is about 250- 280°.

Ours: rolling bearing (double row)



Others: sliding bearing (copper bush)



4. The advantage of our reducer

Our reducer is **Hyperbola gear reducer**, which have **double row gears**, it has the advantage of large carrying capacity, long working life, low noise, good sealing and easy to installation and use.



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While most others are still use **ZQ reducer** or **planetary gear**, there is only one row gear, the twisting force is smaller than ours.

Our reducer:



Others' reducer:



V. Pictures of end products



rubber powder

rim steel

fine steel wire

nylon

VI. The application scope of rubber powder

Specifications	Scope of application
3-5mesh	Rubber floor bricks, plastic track, plastic sports facilities, artificial turf, poly sound insulation board, playground, gymnasium, school,
5-15mesh	kindergarten, old folk's home, ward, swimming pool, foot bridge, walk and so on