Brief Info 基本信息

Raw Material 原材料	Car Tire, Truck tire with diameter under 900mm 汽车轮胎、载重轮胎，直径900（mm以内）
End Products Size 最终产品尺寸	120 mesh rubber powder without steel wire and fiber 120目无钢丝无纤维胶粉
Capacity 容量	500~1000kg/h
Installed Power Consumption 装机功耗	250KW
Taking Floor Area 建筑面积	Around 400~500㎡
Labor Requirement 劳动要求	3 workers to operate, 1 to feed the tire, 1 to control the electric control system, 1 to collect the powder. working 16~20 hours each day, 300 working days each year. 3名工人操作，1名工人喂轮胎，1名工人控制电控系统，1名工人收集粉末。每天工作16~20小时，每年300个工作日。
Features 特征	· The whole line can effectively realize the automatic separation of rubber, steel wire, nylon fiber and other materials. · The whole line adopts PLC control system, which is easy to operate and maintain, and has the characteristics of low energy consumption and long service life. · 全线可有效实现橡胶、钢丝、尼龙纤维等材料的自动分离。 · 全线采用plc控制系统，操作维护方便，能耗低，使用寿命长。

Tire Recycling Production Line Equipment List 轮胎回收生产线设备清单

	Descriptions	Usage	QTY	Power
1	Tire Debeader 轮胎拉丝机	pull out the steel in the tires 拉出轮胎里的钢丝	1 set	11kw
2	1m width conveyor (rubber belt) 1米宽输送机（胶带）	transport the tires to the shredder 把轮胎运到破碎机上	1 set	2.2kw
3	Double shaft shredder with trommel 双轴滚筒式撕碎机	shred the tire into 50~150mm chips 把轮胎切成50~150毫米的碎片	1 set	22kw2
4	"L" shape conveyor for (pvc belt) "L"形PVC输送带	transport the tires to the rasper 把轮胎运到锉刀上	1 set	2.2kw
5	Rubber Rasper 锉丝机	to process 50*50mm tire chips into 10~15mm rubber granules 将50*50毫米的轮胎碎片加工成10~15毫米的橡胶颗粒	1 set	90kw
6	PVC conveyor belt +suspended magnetic separator PVC输送带+悬浮磁选机	separate rubber from steel wire(1st time) 钢丝与橡胶分离（第1次）	1 set	2.2kw
7	Rubber Crusher 橡胶破碎机	Crush 10~15mm rubber coarse particles into 1~4mm fine particles. 将10~15毫米橡胶粗颗粒粉碎成1~4毫米细颗粒。	1 set	55kw
8	PVC conveyor belt with rubber roller magnetic separator PVC输送带+辊磁选机	separate rubber from steel wire(2nd time) 钢丝与橡胶分离（第二次）	1set	2.2kw
9	Fiber separating system 纤维分离系统	Separate fiber from rubber 把纤维和橡胶分开	1set	
10	Rubber Miller 橡胶磨粉机	mill 1~4mm pellets into powder 将1~4毫米颗粒磨成粉末	1 group	22kwx3
11	Screw feeder + Weighing & packing system 螺旋上料机+称重和包装系统	Auto feed the powder and weigh and pack the powder 自动送粉，称重包装	1set	1.5kw

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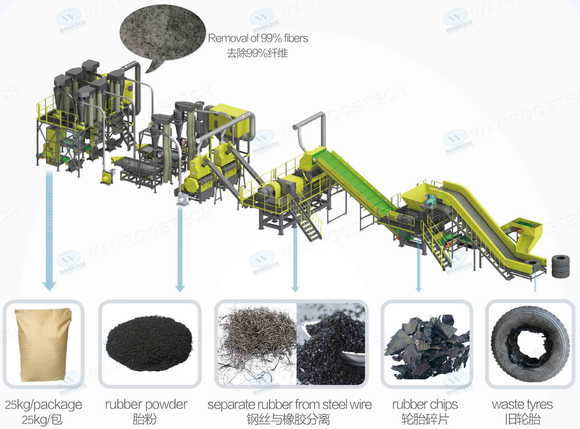
NEVER STOP TO IMPROVE THE QUALITY AND SERVICE
追求服务与质量永不止步

WASTE TIRE RECYCLING LINE

轮胎回收生产线

橡胶粉生产线用于将旧轮胎和橡胶加工成精细橡胶粉末，最终产品尺寸可以达到30~120目，不含钢丝和纤维。



25kg/package
25kg/包

rubber powder
胎粉

separate rubber from steel wire
钢丝与橡胶分离

rubber chips
轮胎碎片

waste tyres
旧轮胎

Rubber powder production line is used for processing used tires and rubbers to fine rubber powders. End products size can reach 30~120 mesh was free of steel wire and fiber.

从废轮胎中回收的胶粉在工业上得到了广泛的应用，其中用于公路建设的橡胶粉改性沥青，是消耗橡胶粉的最大的应用市场.
The Rubber Powder that recycled from the scrap tires is widely used in the industries.
It is mainly used as modified asphalt for highway construction and it is one of the biggest consumption markets for rubber granules.

改性沥青 Modified asphalt

用废胶粉改性沥青铺设的路面比普通沥青路面更耐用，产生裂纹少，耐候性更好，可避免因高温、寒冷天气而使路面产生高温软化流淌和严寒龟裂。有降低噪音等良好效果。用废胶粉改性沥青铺设一条双向六车道公路，每公里路面可消耗1万条废旧轮胎制成的废胶粉.

The road adopted rubber powder modified asphalt is more durable, less flaw and weather fastness is better than the ordinary road. With the rubber powder modified asphalt, the road could avoid getting soft and flowing or being full of cracks due to the high temperature and cold weather, besides, it could lower the noise, etc. To pave a two-way six-lane highway with rubber powder modified asphalt, each kilometer will consume the rubber powder making from 10000 wasted tires.

橡胶地砖 Rubber floor tile

彩色弹性橡胶地砖是由两层不同密度的材料构成。彩色面层采用细胶粉或细胶丝并经过特殊工艺着色，底层则采用粗胶粉或胶粒、胶丝制成.

Colorful elastic rubber floor tile consists of two layer materials whose density is different. The surface layer is made by fine powder and dyed to be colorful by a special process, and the bottom layer is made by rough rubber powder or rubber granules.

胶粉代替部分生胶制作橡胶制品
Rubber product which is produced by replacing raw rubber with rubber powder

废胶粉可单独或与再生胶并用以代替部分生胶制作胶管、胶鞋、胶带和轮胎等制品.

It is possible to produce sebific duct.rubber overshoes,rubber belt and tire etc. by using rubber powder individually or reclaimed rubber instead of using part of raw rubber.

制造再生胶 Reclaimed rubber

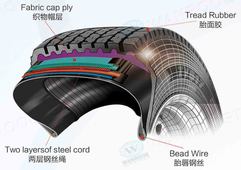
再生胶是将橡粉经过高温、高压脱硫后生成的产品，为橡胶制品生产过程中所需的主要原料.

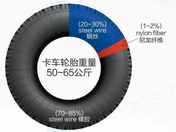
The rubber powder will be reclaimed rubber after being processed under high temperature and High-pressure desulfurization. The reclaimed rubber is the main material for making rubber products.

拉丝机 Tire Debeader

Debeader : Tire Wire Drawing Machine can pull the steel out of the tire completely, then, the tyre will be easily crushed and cut.
Application: tire diameter ≤ Φ 1.2M.

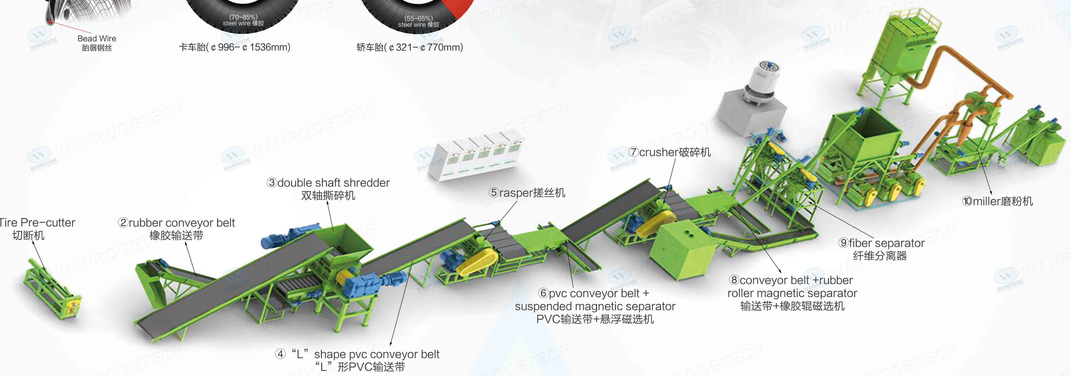
轮胎拉丝机：轮胎拉丝机可以完全从轮胎内部拉出钢材，然后，轮胎就很容易压碎和切割了。
适用于：轮胎直径≤1.2m。





卡车胎(¢ 996~ ¢ 1536mm)

轿车胎(¢ 321~ ¢ 770mm)



切断机 Tire Pre-cutter

Crocodile Shears: If the tire size is too large, you can use the Tire Cutter Machine to Pre-cut it. Options for different force & blade length.

切断机：如果轮胎尺寸太大，您可以使用轮胎切割机进行预切割。有不同力度和不同叶片长度的选则。

悬浮磁选机 Suspended Magnetic Separator

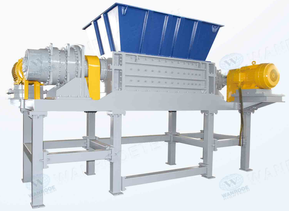
Suspended magnetic separator: The principle of adsorbing the iron material by the electromagnet, energization generates a magnetic field adsorbs the iron substance, and sends it out through the belt to achieve the purpose of removing the steel wire.

悬浮磁选机：电磁通电吸附铁材料的原理产生磁场，吸附铁物质，并通过皮带将其送出，达到去除钢丝的目的。

双轴撕碎机 Two Shaft Shredder

Two shaft shredder: Cut the tire into rubber pieces(50mm to 150mm)which are easier for following process.

双轴撕碎机：将轮胎撕碎成50mm到150mm的胶块，方便后续机器处理。



搓丝机 Rubber Rasper

Rubber crusher: Specially designed to process 50x50mm tire chips into 10~15mm rubber granules, at the same time separate the rubber and steel wire.

搓丝机：专门设计将50x50毫米的轮胎切碎加工成10~15毫米的橡胶颗粒，同时将橡胶和钢丝分开。

橡胶破碎机 Rubber Crusher

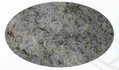
Rubber crusher: The 10~15 mm rubber coarse particles are further processed into uniform, high quality 1~4 mm fine particles. Adjustable tool clearance optimizes output function, the knife is easy to change, and screens with different hole sizes can be used to ensure more flexible production. The blade is made of DC53 and is wear-resisting.

橡胶破碎机：10~15mm橡胶粗颗粒进一步加工成均匀、优质的1~4mm细颗粒。刀具间隙可调，优化输出功能，刀具更换方便，可采用不同孔径的筛网，保证生产更灵活。刀片由DC53制成，更耐磨。

纤维分离器 Fiber Separator

Fiber separator: The negative pressure is generated in the closed sorting cylinder by the exhaust fan, and the material sinks and floats in this state to be separated into two parts, light and heavy, that is, the fibers and the rubber particles are separated.

纤维分离器：负压是由排风机在密闭的分选筒内产生的，物料在这种状态下下沉和漂浮，分为轻和重两部分，即纤维和橡胶颗粒被分离。



橡胶磨粉机 Rubber Miller

Rubber miller: The 1~4 mm rubber fine particles were ground into rubber powder of 30~200 mesh. Two discs rotating in different directions creating friction between them which creates a cutting and grinding material until the desired size is achieved.

橡胶磨粉机：将1~4mm的橡胶细颗粒磨成30~200目的胶粉。两个不同方向旋转的圆盘在它们之间产生摩擦，从而产生切割和研磨材料，直到达到所需的尺寸。