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# LS Single Hook Debeader >>>>>> LS单钩拉丝机

## 废旧轮胎精细胶粉成套生产线设备

## Waste tire rubber powder production line equipments

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## 废橡胶处理及制品设备

## Waste rubber recycling and product manufacturing equipments

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### 简介

LS单钩拉丝机是将轮胎内侧胎唇钢丝一次性完整拉出的设备。其目的是便于后道的破碎或切割。其主要部件包括：电动机、拉钩、十字板、机架、油缸、液压部、控制手柄、导向轮等。

### 特点

- ◆拉钩、十字板等主要部件均为特种材料，并经特殊处理制成，强度高，耐磨损，经久耐用。
- ◆该设备设有轮胎抬升装置，使不同轮胎都能轻松安放，减少劳动量，产量更高。
- ◆采用手动控制轮胎提升及拉丝的前后运动，工作稳定可靠，并能精确定位，提高工作效率。
- ◆液压系统采用国际先进的恒功率变量柱塞泵技术，工作噪音低，压力高，提高了设备的使用寿命及控制系统的安全运行。

### 技术参数

型号	900	1200
处理量(条/小时)	20-40	20-40
处理轮胎(毫米)	≤Φ900	≤Φ1200
电机功率(千瓦)	5.5	11
工作压力(吨)	10	15
油缸行程(毫米)	900	1300
重量(吨)	1	1.4



### Introduction

LS Single Hook Debeader is used to pull out the bead wires inside tires' sidewalls completely before the cutting and shredding processes. It mainly consists of motor, hook, cross-hole plate, body frame, cylinder, hydraulic station, operation lever, directing wheel.

### Structure and Principle

- ◆Hook, cross-hole plate are made of materials after special treatment, wear-proof, heavy-duty and long life.
- ◆With lifting device, the tire can be loaded for processing at ease to increase handling speed and save labor.
- ◆The lifting and pulling processes are controlled with hand lever manually to ensure process accuracy.
- ◆The hydraulic system adopts international advanced plunger pump technology, low noise, and high pressure and improved the stability and life of the machine.

### Technical Data

Model	900	1200
Capacity(Pcs/H)	20-40	20-40
Handling tire(mm)	≤Φ900	≤Φ1200
Motor power(KW)	5.5	11
Working pressure(MPa)	10	15
Cylinder reciprocation distance(mm)	900	1300
Weight(T)	1	1.4



**SG双钩拉丝机 <<<<<< SG Double Hook Debeader**

**简介**

SG双钩拉丝机是一款将轮胎两侧胎唇钢丝不经过任何处理一次性完整拉出的设备。为后续整胎破碎或者切割的前道工序。其主要部件包括：电动机、减速机、传动齿轮，圆盘拉钩、十字板、支承板、底座、轴承座、上料架、控制箱等。

**特点**

- ◆ 设备采用整体底板，安装方便，稳定可靠，是目前市场上效率最高的拉丝设备。
- ◆ 设备采用双传动，双拉钩的结构，能同时拉出轮胎两侧的钢丝，是单钩拉丝机处理量的3倍。
- ◆ 设备采用机械传动的方式，拉钩采用圆盘式的结构，使效率更高，占地面积更小。
- ◆ 整套设备拥有电路自动保护系统，安全型保护架，使操作更安全、更简单。
- ◆ 圆盘拉钩，十字板，齿轮等主要部件，选用特种材料制成，并经过后续特殊处理，强度高，耐磨损、经久耐用，方便维护。

**技术参数**

型号	1200
处理量(条/小时)	60-120
处理轮胎(毫米)	≤Φ1200
电机功率(千瓦)	7.5+7.5
拉力(吨)	15+15
重量(吨)	6.5

**Introduction**

SG Double Hook Debeader is used to pull out bead wires inside two tire sidewalls completely and simultaneously before next cutting and shredding process. It mainly consists of motor, speed reducer, transmission gears, round hooks, cross-hole plate, support boards, pedestal, bearing pedestal, rolling shelf and control cabinet.

**Structure and Principle**

- ◆ The machine use integral base pedestal, easy installation and operation, it is the most efficient debeader in the current market.
- ◆ Adopts twin motor and twin hook design to pull out bead wires at 3 times the speed of the single hook debeader.
- ◆ Mechanical transmission and round hook design, high efficient and small occupation area.
- ◆ Circuit protection system, safety protection frame to make the operation easy and safe.
- ◆ Round hook, cross hole plate and gears are made of materials after special treatment, wearable, heavy-duty, easy maintenance and long life.

**Technical Data**

Model	1200
Capacity(Pcs/H)	60-120
Handling tire(mm)	≤Φ1200
Motor power(KW)	7.5+7.5
Pulling force(T)	15+15
Weight(T)	6.5



**QDJ Tire Cutter >>>>> QDJ轮胎切断机**

**简介**

该设备是一款将已去除胎侧钢圈的大型钢丝胎、纤维胎等各种废旧轮胎进行切割的专用设备。能将各种废旧轮胎切割成各种所需规格的胶块，便于后续设备的破碎。其主要部件包括：电动机、旋转平台、上料架、动刀架、定刀架、切割刀片、body frame, cylinder, hydraulic station and control cabinet, etc.

**特点**

- ◆ 刀具采用优质进口材料制作而成，强度高、耐磨损、韧性好、使用寿命长。
- ◆ 上料架和旋转平台使轮胎安放更简单，效率更高。
- ◆ 拥有切胎后自动复位功能，操作简便。
- ◆ 特有档轮装置，切胎时能使轮胎不卡料。刀座采用自动定位，定位精度高，工作安全可靠。
- ◆ 液压系统采用国际先进的恒功率变量柱塞泵技术，工作噪音低，压力高，提高了设备的使用寿命及控制系统的安全运行。

**技术参数**

型号	900	1200
处理量(条/小时)	10-30	20-40
处理轮胎(毫米)	≤Φ1000	≤Φ1200
电机功率(千瓦)	5.5	7.5
工作压力(吨)	8	12
重量(吨)	1.8	2.5

**Introduction**

The machine is used to cut all kinds of tires, including steel tire, fiber tires. The tires need to be debeaded before cut into different size of rubber blocks. It mainly consists of motor, rotating platform, rolling shelf, fixed blade shelf, cutting blade shelf, body frame, cylinder, hydraulic station and control cabinet, etc.

**Structure and Principle**

- ◆ The blades are made of high quality imported materials, wear-proof, heavy-duty and long life.
- ◆ The rolling shelf and rotary platform make the operation easy and quick.
- ◆ Automatic reposition function after each cut.
- ◆ With blocking Pole to avoid tires sticking.
- ◆ The hydraulic system adopts international advanced constant power variable plunger pump technology, low noise, and high pressure and improved the stability and life of the machine.

**Technical Data**

Model	900	1200
Capacity(Pcs/H)	10-30	20-40
Handling tire(mm)	≤Φ1000	≤Φ1200
Motor power(KW)	5.5	7.5
Working pressure(MPa)	8	12
Weight(T)	1.8	2.5



## ZPS轮胎破碎机 <<<<<< ZPS Tire Shredder

### 简介

ZPS轮胎破碎机是一款在常温下将钢丝子午线轮胎与纤维斜交轮胎破碎成50\*50mm左右胶块的设备。用于破碎去除钢丝圈并符合其进料规格的各种轮胎制品。其结构主要包括：电动机、减速机、机壳、刀具、筛网圈、传动机构、机架等。

### 特点

- ◆ 粉碎腔体采用对开式结构，安装维护便捷，设备结构紧凑。
- ◆ 刀盘刃口选用特种硬质合金材料制成，并经过后续特殊高硬度、高耐磨处理，可以在短时间内，快速更换刀盘的磨损部分，解决了刀盘磨损后难更换、难修复、高成本的难题。有使用寿命长、效率高、工艺先进、更换方便等优点。
- ◆ 采用具有高效率、运行平稳、低噪音，高扭矩的行星齿轮减速机，操作简便，安全性更高。
- ◆ 圆网筛为钢丝网格结构，落料面积大，有利于合格胶块的分级，避免了合格胶块在粉碎腔内重复破碎而减少产量。该设备能耗低，工艺先进，效率高。
- ◆ 对特大型轮胎只需分割后同样能达到理想的破碎效果，是市场上新一代的破碎设备。

### 技术参数

型号	900	1300
处理量(吨/小时)	0.8~3	2~8
进料规格(毫米)	≤Φ850	≤Φ1250
出料规格(毫米)	≤50×50	≤60×60
电机功率(千瓦)	15+15+4	45+45+7.5
主轴转速(转/分钟)	14	10
重量(吨)	6.8	18

### Introduction

ZPS Tire Shredder is used to shred radial tire and fiber tire into tire chips 50×50mm size in ambient process, the tire needs to be debanded before shredding. It mainly consists of motor, speed reducer, machine frame, shredding blades, rotary screener, transmission system, etc.

### Structure and Principle

- ◆ The shredding chamber adopts folio compact structure for easy maintenance.
- ◆ The shredding blade edges are made of hard alloy after special hardness treatment, wear-proof. The blade edges are made replaceable without dismantling the machine, blades changing and repairing jobs are made easy and not costly any more. Heavy-duty, advanced technology and high output.
- ◆ The machine adopts low noise, steady and high torque planet-gear speed reducer, easy and safe operation.
- ◆ The rotary screener is of steel net structure which has large area for screening qualified size of tire chips to discharge quickly. Low consumption, high output and advanced technology.
- ◆ Round hook, cross hole plate and gears are made of materials after special treatment, wearable, heavy-duty, easy maintenance and long life.

### Technical Data

Model	900	1300
Capacity(T/H)	0.8~3	2~8
Feeding size (mm)	≤Φ850	≤Φ1250
Output size (mm)	≤50×50	≤60×60
Motor power(KW)	15+15+4	45+45+7.5
Main shaft speed (RPM)	14	10
Weight(T)	6.8	18



## CQJ Rubber Chip Grinder >>>>> CQJ胶块搓切机

### 简介

CQJ胶块搓切机是一款用于轮胎经破碎后在常温状态下对各种胶块的粉碎，具有粗粉碎、细粉碎的功能，能同时分离出橡胶、钢丝及纤维。主要部件包括：电动机、减速机、粉碎腔体、搓切套、碾磨螺旋轴、送料机构、水冷却机构、机架等。

### 特点

- ◆ 采用旋转碾磨剪切的工作原理，形成360度的有效工作面，具有体积小、效率高、使用寿命长的优点。
- ◆ 整体结构采用上下对开形式，安装维护简便，结构紧凑。碾磨螺旋轴通过PLC程序控制自动调节出料的细度，从而达到彻底分离橡胶、钢丝、纤维的目的，并达到所需规格的胶粒。
- ◆ 主要部件全部采用进口特种硬质合金材料制成，并经过后续特殊高硬度、高耐磨的处理，能在短时间内更换粉碎腔内磨损部份，解决了工作面磨损后，难更换、难修复、高成本的难题，有使用寿命长、效率高、更换方便、工艺先进等优点。
- ◆ 加料斗采用直泄式结构，并在下部设有搅拌装置，能有效防止胶块的堵料，采用整体送料螺杆，强度高、耐磨性强。
- ◆ 机体及螺旋轴内采用内置式循环水冷却系统，能有效降低碾磨工作中的温度，使胶粒在碾磨过程中不会烧焦和粘连，大大提高了工作效率及工作面的使用寿命。

### 技术参数

型号	320
处理量(公斤/小时)	200~600
工作直径(毫米)	Φ320
进料规格(毫米)	≤50×80
出料规格(毫米)	≤2~8
电机功率(千瓦)	45+3+0.75
主轴转速(转/分钟)	32
重量(吨)	4.5

### Introduction

The CQJ Rubber Chip Grinder is used to coarse/fine grind various kinds of shredded rubber chips in ambient process and it will also detach the steel wire and fiber with the rubber during grinding. The machine is composed of motor, speed reducer, grinding cone, grinding sleeve, grinding spiral shaft, feeder, cooling system and machine frame, etc.

### Structure and Principle

- ◆ The machine adopts rotary grinding and cutting principle with 360 degree large working surface, compact structure, high efficient and durable.
- ◆ The machine is of folio compact structure for easy installation and maintenance. The grinding spiral shaft inside the grinding cone is controlled by PLC, it can adjust the grinding size automatically to produce required size of rubber granules and meantime, completely detach rubber, steel wire and nylon.
- ◆ The main working parts of the machine are made of imported hard alloy materials after special hardness and wear treatments, the wearing parts are designed as replaceable, so the wearing parts repairing and changing jobs are made very easy, quick and not costly any more. Durable, high efficient, easy replacement and advanced technology.
- ◆ The feeding hopper adopts direct discharging structure with stirring device at the bottom to avoid materials jamming.
- ◆ The machine body and spiral shaft are cooled with circulating water to ensure suitable working temperature.

### Technical Data

Model	320
Capacity ( Kg/H )	200~600
Working diameter ( mm )	Φ320
Feeding size ( mm )	≤50×80
Output size ( mm )	≤2~8
Motor power ( Kw )	45+3+0.75
Main shaft speed(RPM)	32
Weight(T)	4.5



## XKP破胶机

XXXXXX XKP Double Roller Rubber Grinder

### 简介

本机主要由机体、传动部分、安全装置、辊温调节装置、润滑系统及事故停车装置等组成。前后辊筒为机器的主要工作零件，通过电动机，减速装置传动，在一定速比下，相向转动进行工作。

### 特点

- ◆ 辊筒工作表面采用合金钢材料制成，坚硬、耐磨、使用寿命长，辊筒两端由滑动轴承支承，采用注油器润滑。
- ◆ 两辊之间距离在规定的范围内可任意调节。机器安装安全装置，超负荷工作时安全片破碎，以保护主要零部件不因过载而损坏。
- ◆ 在辊筒工作部分两端装有挡胶板。辊筒部分装有冷却装置，用来调节辊面温度。

### 技术参数

型号	560×800
处理量(公斤/小时)	200-1000
滚筒直径(毫米)	前560-后510
进料规格(毫米)	30-60
出料粒度(目)	5-30
电机功率(千瓦)	90
重量(吨)	19.5



### Introduction

The machine consists of main body, transmission, safety guard, roller temperature adjusting unit, lubricating system and auto stop protection system. Two rollers are the main working parts of the machine, which are driven by motor via speed reducer and roate in a certain speed difference ratio.

### Structure and Principle

- ◆ The roller surfaces are made of casted hard alloy materials, hard, wear proof and durable. It is supported by bearings at its two ends, lubricate with oil filler.
- ◆ The clearance between two rollers can be adjusted with rated range. With safety guard system, when overloaded, the safety plate will break to protect machine parts from damage.
- ◆ There are rubber blocking plates at the end of the working roller and cooling system for roller surface.

### Technical Data

Model	560×800
Capacity(Kg/H)	200-1000
Working diameter(mm)	前560-后510
Feeding size(mm)	30-60
Output size(mesh)	5-30
Motor power(Kw)	90
Weight(T)	19.5

JFS Rubber Powder Screener >>>>>

## JFS多功能胶粉筛

### 简介

JFS多功能胶粉筛是一款利用振动电机作为振动源，使物料在筛网上被抛起，同时向前作直线运动，可作为胶粒输送、除钢丝、除纤维及分级胶粒的设备。其主要部件包括：振动电机、筛体、机架、弹簧、钢丝出口、回料出口、胶粒出口、筛网等。

### 特点

- ◆ 采用振动电机作为振动源，运行可靠，安装方便。
- ◆ 有在同一台设备上分级胶粒、除钢丝、除纤维的功能，用途广泛，效率高，占面积小。
- ◆ 筛分精度高，处理量大，结构简单，筛体整体刚性好。
- ◆ 设备上有多种物料出口，可同时处理多种物料及不同规格的胶粒，是流水线不可缺少的设备。

### 技术参数

型号	800
处理量(公斤/小时)	400-800
振动频率(次/分)	960
电机功率(千瓦)	0.75+0.75
出料粒度(毫米)	0.5-6
分选效率(%)	99
重量(吨)	0.8



### Introduction

This machine use vibrating motor to force the materials disperse, move forward on the screening net to separate rubber granules into different sizes, while other relevant machines can separate the steel wire and fiber above the screen net. It mainly consists of vibrating motor, screener frame, spring, steel wire discharging tray, feeding back outlet and screening net, etc.

### Structure and Principle

- ◆ Using vibrating motor as vibrating source, reliable and easy operation.
- ◆ Used as a platform for multiple jobs as rubber granule screening, fiber separating, steel wire separating processes, wide applications, high efficient and small floor area.
- ◆ High screening accuracy, high screening volume, compact structure.
- ◆ With multiple outlets for different screening sizes, is an indispensable equipment in tire recycling.

### Technical Data

Model	800
Capacity(Kg/H)	400-800
Vibrating frequency(Time/Minute)	960
Motor power(Kw)	0.75+0.75
Output size(mm)	0.5-6
Screening efficiency(%)	99
Weight(T)	0.8

## 废旧轮胎精细胶粉成套生产线主要技术参数 <<<<<<

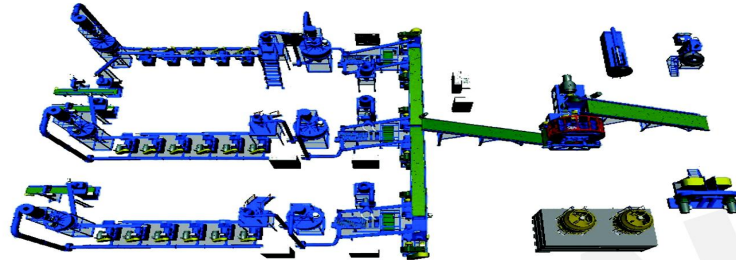
Complete set of waste tire fine rubber powder production line

### 技术参数:

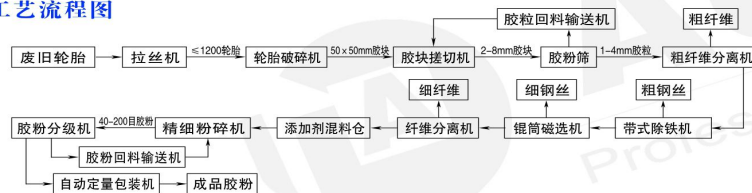
- ◆ 年处理量: 1500-20000吨
- ◆ 被处理物料: ≤Φ1200mm的废旧轮胎
- ◆ 成品细度: 40-200目
- ◆ 吨处理耗电: ≤380度

### Technical Data:

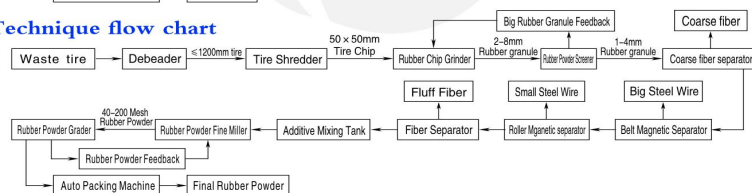
- ◆ Annual handling ability: 1500-20000 tons
- ◆ Materials being handled: worn-out tyres(≤1200mm)
- ◆ Granularity of finished products: 40-200mesh
- ◆ Power consumption: less than 380kwh



### 工艺流程图



### Technique flow chart



### 生产线的特点

- ◆ 可在常温下将废旧橡胶(轮胎), 处理成40~200目橡胶微粉, 并将其中的钢丝和纤维全部自动分离出来。
- ◆ 整套生产线结构合理紧凑, 安装占地面积小, 维护便捷。
- ◆ 整套生产线装机容量小, 能耗低, 具有优越的投资性价比。
- ◆ 整线采用全自动化控制, 使运行拥有更高的稳定性, 并降低劳动强度。
- ◆ 处理废旧轮胎过程中无污水排放、无废气污染、无粉尘污染。

### Features

- ◆ Granulate waste tires into rubber powder of 40-200 mesh, and separate steel, fiber and nylon completely at normal temperature.
- ◆ Compact structure, small space and easy maintenance.
- ◆ Low energy consumption and good cost performance.
- ◆ Automatic control product line, higher operation stability, and lower labor intensity.
- ◆ No polluted water, waste gas and waste residue in production process.

### 胶粉的细度与应用的关系

- ◆ 8-20目: 主要应用于跑道、道路垫层、垫板、草坪、铺路弹性层、运动场地铺装等。
- ◆ 30-40目: 主要应用于生产再生胶、改性沥青、铺路、生产胶板等。
- ◆ 40-60目: 称为细胶粉, 应用于橡胶制品填充、塑料改性等。
- ◆ 60-80目: 称为精细胶粉, 主要应用于汽车轮胎、橡胶制品、建筑材料等。
- ◆ 80-200目: 称为微细胶粉, 主要应用于橡胶制品、军工产品等。

### Relationship between fineness and application of rubber power

- ◆ 8-20 mesh: Mainly used in pavement of track, road cushion layer, base plate, lawn, paving elastic layer, athletic ground, etc.
- ◆ 30-40 mesh: Mainly used in producing reclaimed rubber and rubber board, modifying rubber power, paving roads, etc.
- ◆ 40-60 mesh: Called fine rubber power, used in filling of rubber products, modifying of plastic, etc.
- ◆ 60-80 mesh: Called refined rubber power, used in automobile tires, rubber products, construction materials and so on.
- ◆ 80-200 mesh: Called subtle rubber power, used in rubber products, military products and so on.

# 客户案例



# Our customers

