



CorEnzo EcoService

Project : Tire Recycling Plant
Raw Material : waste tires (diameter \leq 1200mm)
Capacity & Final Product: 1000kg/h rubber particles.

Date: 23.01.2026 Validity: 60 days

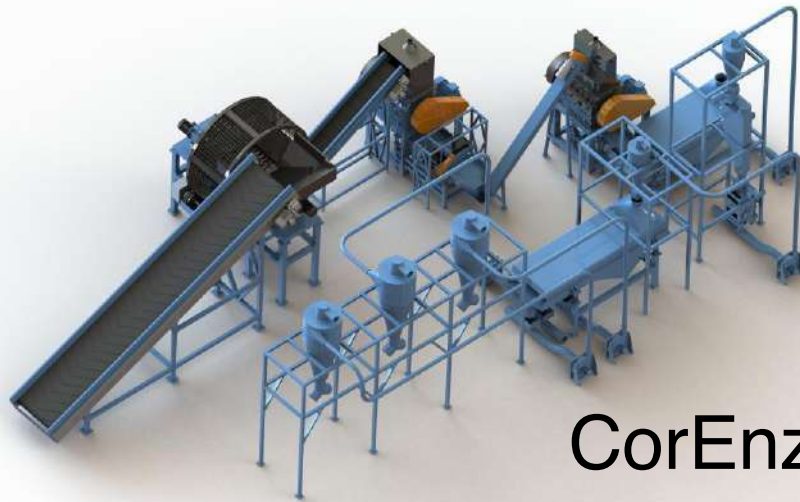
CONTENT

DRAWING & WORKING PROCESS.....	1
PRICE LIST & TERMS.....	2
SERVICES.....	3
MACHINE DETAILS.....	4-20



CorEnzo
EcoService

DRAWING & WORKING



Waste tire → tire debader → tire shredder → rasper → rubber granulator → collector



CorEnzo
EcoService

SERVICES

SERVICES	
1. Fast Response	All customer's messages will be replied within 24 hours
2. Free Consulting	We can provide free consulting services of tire recycling machines
3. Customized Layout	We will make the layout compatible to your working site
4. OEM/ODM	We can personalized the equipment with your brand
5. Commissioning	We will test the machines before shipment and provide videos
6. Logistic Team	We can transport the machine by sea, by train or by land
7. Engineer Support	Our engineer will always participate during and after the trading
8. Components Supply	We can guarantee stable supply of consumable components
9. Brand New Equipment	We can guarantee every component is new and high quality brand
10. Custom Clearance Support	We will provide PI, CI, PL, contract, CO, etc for your custom clearance

MACHINE DETAILS

1. Tire De-beader



corenzo eco



Model	TD-1200
Power	11 kW
Input Size	1200 mm
Capacity	60 pcs/h
Weight	2 tons

Function: Using hydraulic cylinder to hook and withdraw the bead wire from tire rims, and protect shredder blades.

2. Tire Cutter



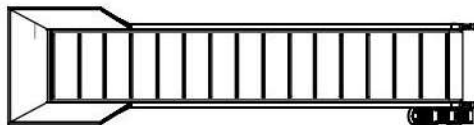
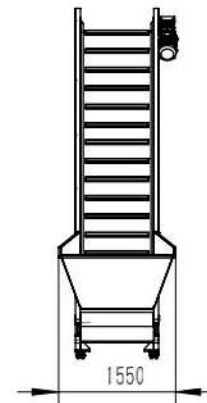
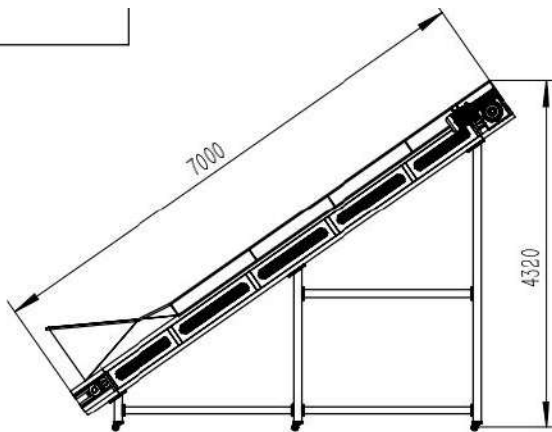
Model	TC-1200
Power	7.5 kW
Input Size	1200 mm
Capacity	60 pcs/h
Weight	1.5 tons

Cut the whole tire into half or smaller sections, for easier feeding to the shredder.

3. Feeding conveyor



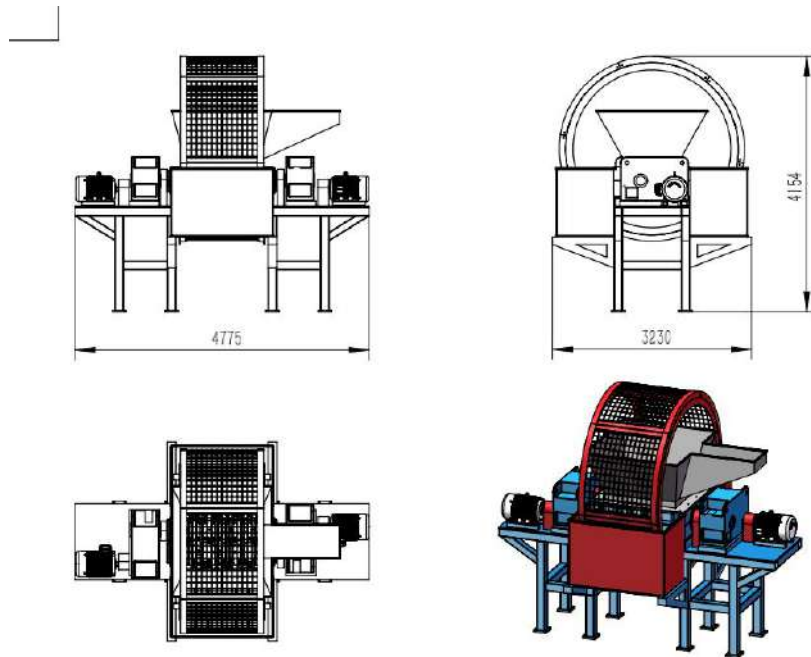
Feeding conveyor	LK-C1400
Power	3 kw
Dimensions	7000*1550*4320 mm
Weight	1000 kg
Capacity	5000 kg/h



Advantages:

- ☑ High quality rubber conveyor belt
- ☑ High quality Torque arm reducer
- ☑ High tensile strength, good through ability and long service life
- ☑ PLC controlled

4. Tire Shredder



Model	TS-800	Power	2*22 kW
Capacity	1- 1.5 t/h	Input Size (diameter)	800 mm
Output Size	50 mm	Blade quantity	16 pcs
Blade Material	H13K	Size	4.775*3.230*4.154 m

two shaft shredders are specially designed for rough shredding, low speed, high torque operation minimize the noise and power consumption whilst high throughput rates. The shredder blades are made from best quality steel and heat-treated by Bodycote for optimal shredding performance. All the shredder blades thickness ranges from 25mm-152mm depending on type of material, output, final product.

Advantages:

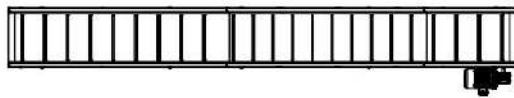
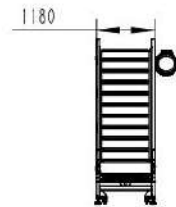
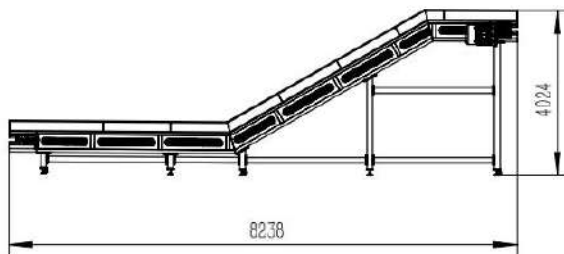
- ☑ Overloading Automatic reversal function.
- ☑ Replaceable blade bit tool is fixed by both screws and grooves on the blade base, so the screws won't get loosen.
- ☑ The transmission parts are connected by coupling to reduce vibration and protect the main shaft and reducer from force loss.
- ☑ Crushing chamber is open structure, easily for maintenance.
- ☑ High torque and strong power, ensures low noise and power consumption with high productivity.
- ☑ Blades are made of best material H13K, long service life.

- ☑ Planetary reducer is equipped with high accuracy, high loading power, high speed ratio, durable use, low noise, low vibration and low inertia.
- ☑ Driven by SIEMENS control system, quality and power guaranteed.

5. output conveyor to the rasper



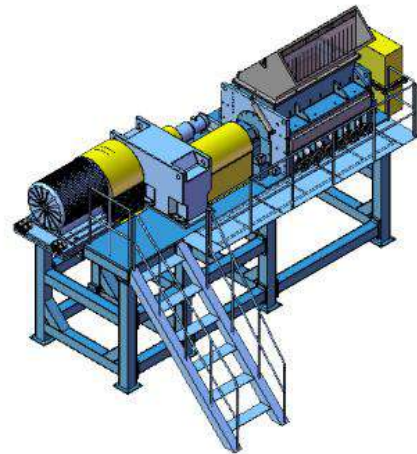
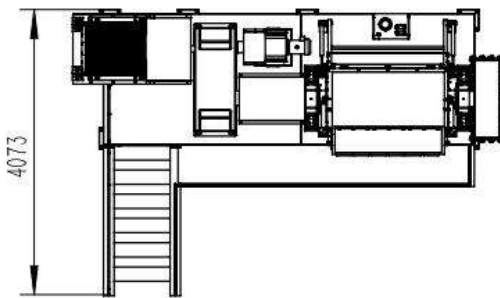
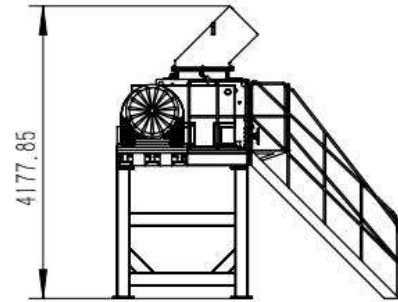
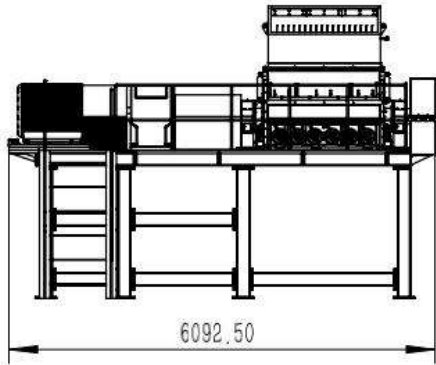
Feeding conveyor	LK-C800
Power	2.2 kw
Dimensions	8238*1180*4024 mm
Weight	1100 kg
Capacity	5000 kg/h



Advantages:

- ☑ **High quality Z type rubber scraper conveyor belt with sidewall.**
- ☑ **High quality Torque arm reducer**
- ☑ High tensile strength, good through ability and long service life
- ☑ PLC controlled
- ☑ **The conveying volume is large, and the material will not be scattered**

6. Rasper



Model	LK-R90	Power	90 kW
Capacity	1.5 t/h	Hopper Opening	1182*700*1255 mm
Cutting Chamber	880*1200 mm	Machine Size	2095*2168*4105mm
Equipment Weight	8 tons	Output Size	10~20 mm

Secondary Shredding: Tire Rasper is a heavy duty rasper for initial and secondary size reduction of materials, the rubber blocks from the tire shredder will be delivered to this rasper by conveyor, the rasper can cut the rubber blocks to 10-20mm rubber chips and remove the steels from the rubber blocks, there would be 2 magnetic separator to separate the steels from the rubber chips. The purity of the steels can reach above 98% purity, the purity of the rubber can reach 99% pure without steels.

Output:



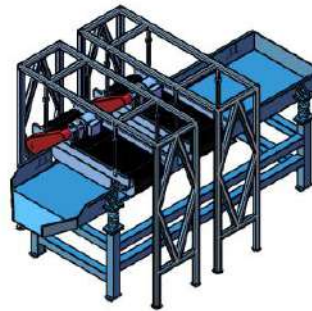
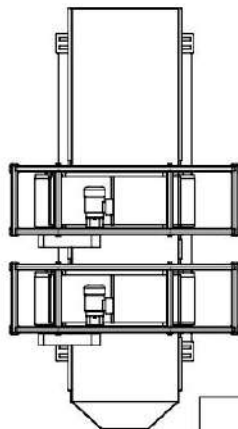
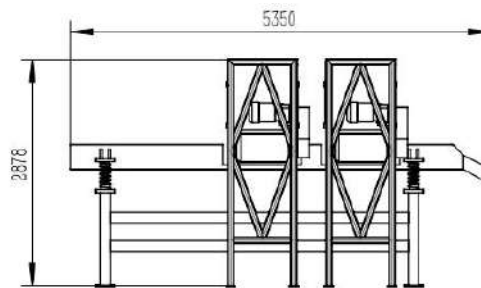
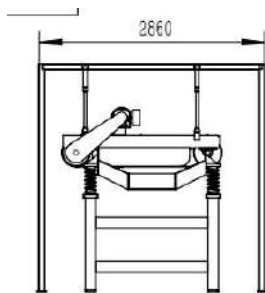
Advantages:

- ☑ High inertia from the flywheel ensures an even load on the machine, thus yielding a higher cutting power.
- ☑ The machine is reducer driven for simple transmission, and the rotor is manufactured and designed for minimum wear.
- ☑ The machine is designed for quick and easy change of knives and screens, which are available in different hole sizes for flexible production.
- ☑ The blades can be changed upside down, so both sides will be applied for cutting, thus will greatly increase the blade life.
- ☑ Hydraulic system, Exchangeable wear parts ensures a virtually indestructible machine.
- ☑ The knives are processed by many steps, and can be reground multiple times on a “flat-bed” grinder ensuring long life and low operation costs
- ☑ Motor for repair, enabling automatic reverse
- ☑ The motor and reducer are connected by hydraulic coupling, top class structures.
- ☑ The Rasper can be delivered with frequency converter for added benefits:
 - a. Starts up when fully loaded with material, reducing downtime after shutdown
 - b. Enables adjustable rotor speed
 - c. Reduced power supply costs
 - d. Reduced power consumption by up to 40%

7.8 discharge vibrating conveyor and magnetic separators



Vibrating conveyor	LK-V1000
Power(vibrating motor)	2*0.75 kw
Magnetic separator	2*1.5kw
Dimensions	5350*2860*2878 mm
Weight	1800 kg



Advantages:

Linear vibration conveyor is a kind of conveying equipment with a linear motion track. It uses vibration motor excitation as the vibration source, so that the material is thrown up on the conveyor while moving forward in a straight line. It has low energy consumption, high output and simple structure. , Easy to maintain, no dust, automatic discharge, more suitable for assembly line operation.

**The permanent magnet separator adopts the design principle of rare earth permanent magnets
Magnetic force can reach 4000 Gauss**

9. 11. Pneumatic conveyor

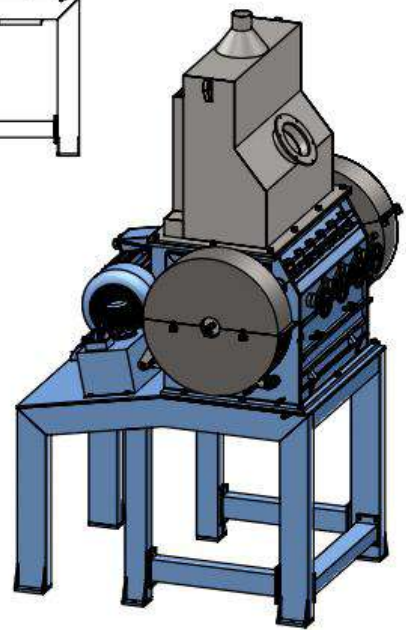
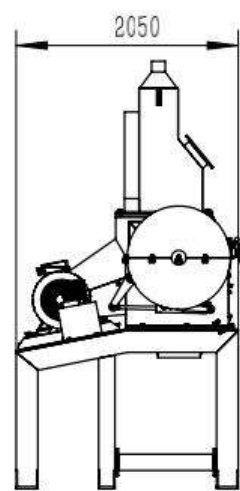
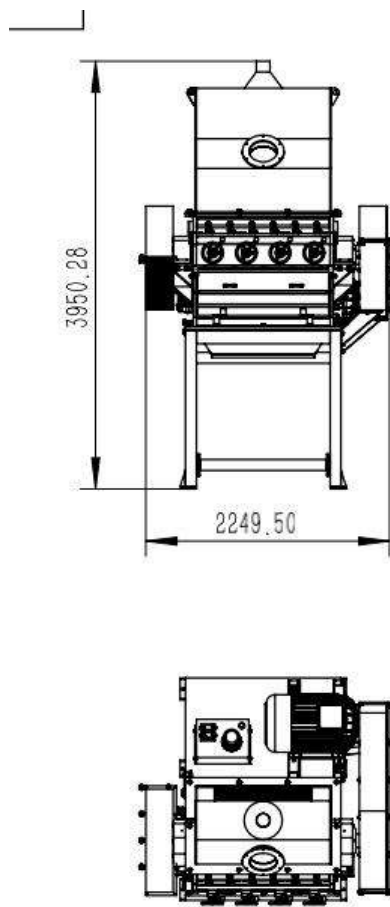


Pneumatic conveyor	LK-W500
Power	7.5 kw+0.75kw
Weight	400 kg
Capacity	3000 kg/h

10. Granulators



Granulator	LK-G90
Power	90 kw
Chamber Size	742*1200 mm
Dimensions	2249*2050*3950 mm
Weight	5600 kg
Hopper Size	895*1434*1160 mm
Capacity	1500 kg/h
Final product	1-5mm



Granulation: The granulators are high speed, single shaft granulators for the final granulation step. The materials from the rasper will be deliver to this granulator and get 1-5mm rubber granules. And at the same time we can separate the nylon from the rubber granules. From this step we can get pure and beautiful rubber granules without steels and nylon fiber inside. The rubber granules can be used for playground, grass filler and so on.

Output:



2~4mm



5mm

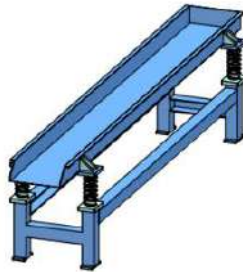


nylon fiber

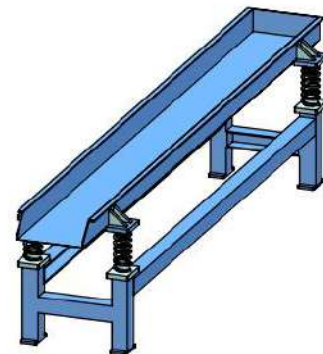
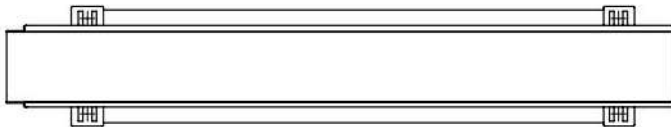
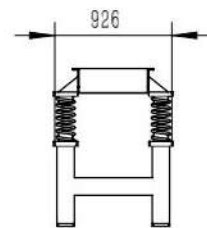
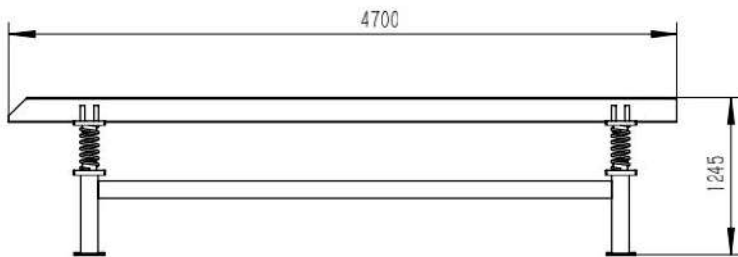
Advantages:

- ☑ Adjustable knife clearance for optimizing the cutting function
- ☑ The knives can be reground multiple times on a “flat-bed” grinder ensuring long life and low operation costs
- ☑ Designed for quick and easy change of knives and screens
- ☑ The rotor is manufactured and designed for minimum wear
- ☑ Friction clutches protect the machine from material overload
- ☑ Hydraulically operated inlet hopper provides easy access to the cutting chamber for maintenance
- ☑ Screens with different hole sizes are available for flexible production
- ☑ Exchangeable wear parts give you a virtually indestructible machine

12. vibrating screen machine



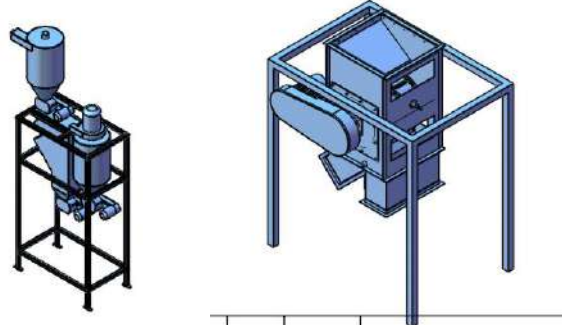
Vibrating screen	LK-V2000
Power	2*0.75 kw
Dimensions	4700*926*1245mm
Weight	400 kg
Capacity	3000 kg/h



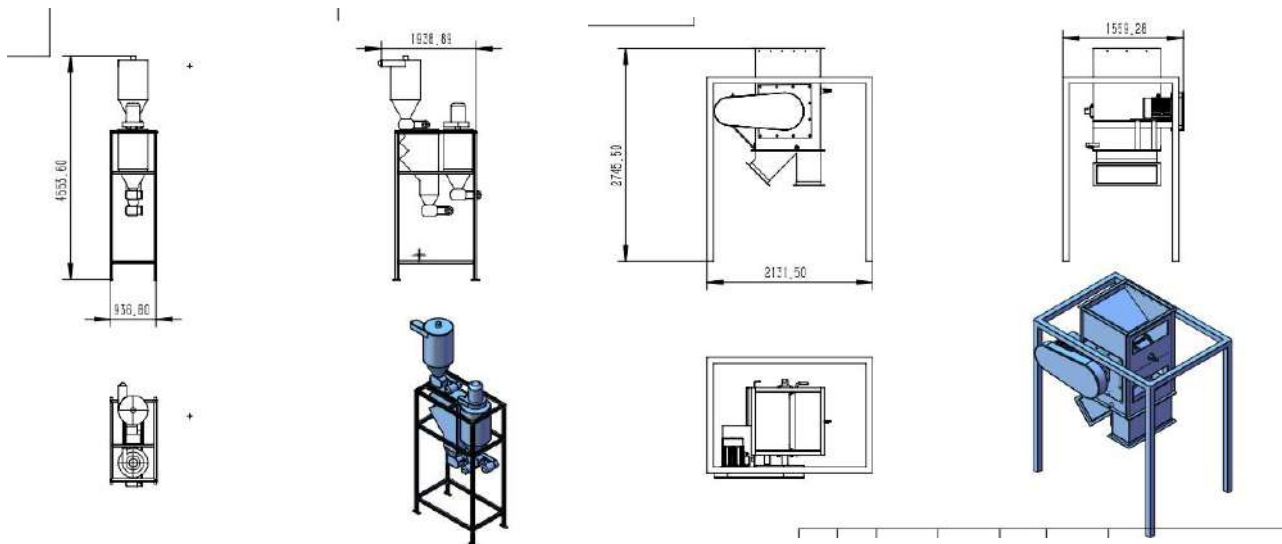
Advantages:

Linear vibration conveyor is a kind of conveying equipment with a linear motion track. It uses vibration motor excitation as the vibration source, so that the material is thrown up on the conveyor while moving forward in a straight line. It has low energy consumption, high output and simple structure. , Easy to maintain, no dust, automatic discharge, more suitable for assembly line operation.

13. nylon fiber system, and drum magnetic separator



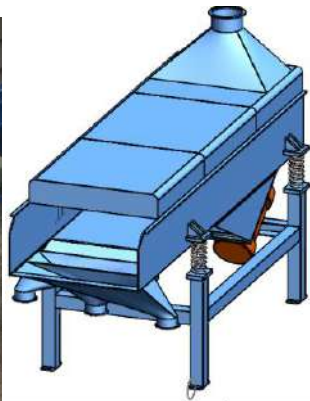
Nylon fiber separator	LK-N2000
Power	14.5 kw
Dimensions	1938*936*4553 mm
Weight	600 kg
Capacity	3000 kg/h



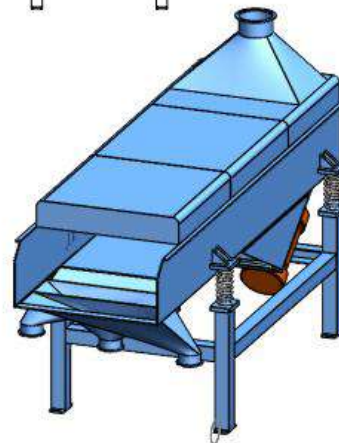
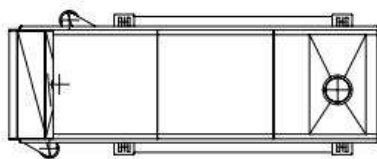
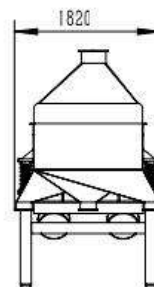
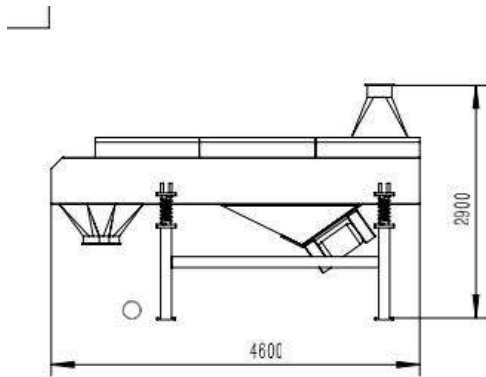
Advantages:

- ☑ 1. Nylon fiber separator uses the difference in suspension speed between rubber powder and nylon to remove nylon by wind;
- 2. The purpose of nylon fiber separating is to remove light nylon and dust;
- 3. The nylon fiber separator machine is to sort out the fiber dust in the rubber powder, and at the same time make up some fresh air from the air inlet to reduce the probability of fiber agglomeration.

14. multi-layer vibrating screen



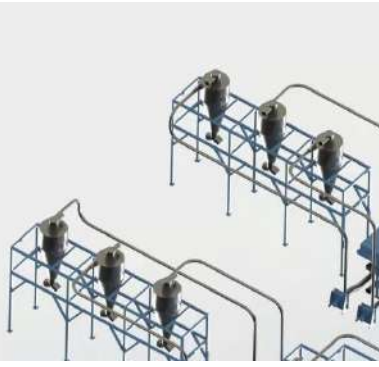
Multi-layer vibrating screen	LK-V2000
Power	2*0.75 kw
Dimensions	4600*1820*2900 mm
Weight	1000 kg
Capacity	3000 kg/h



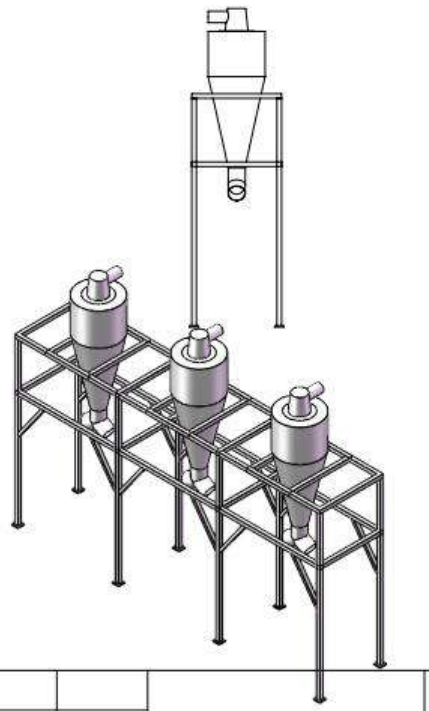
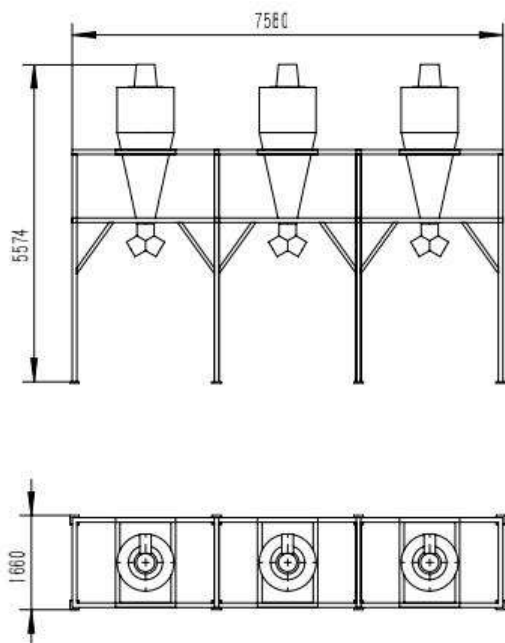
Advantages:

- ☑ The linear vibrating screen is driven by dual vibrating motors. When the two vibrating motors are synchronized and rotated in opposite directions, the exciting force generated by the eccentric block cancels each other in the direction parallel to the motor axis, and stacks in the direction perpendicular to the motor axis. As a result, the trajectory of the vibrating screen is a straight line. The two motor shafts have an inclination angle with respect to the screen surface. Under the combined force of the exciting force and the material's self-gravity, the materials are thrown up and jump forward on the screen surface for linear motion, so as to achieve the purpose of screening and grading the materials.
- ☑ It can be used to realize automatic operation in the assembly line, and has the characteristics of low energy consumption, high efficiency, simple structure, easy maintenance, and a fully enclosed structure without dust.

15. granules collector



Granules collectors	LK-C3000
Power	7.5 kw+0.75kw
Dimensions	7580*1660*5574 mm
Weight	1000 kg
Capacity	3000 kg/h



Advantages:

☑ 1. The star unloader is commonly used in the pneumatic output system. For the pressure output system or the negative pressure output system, the star unloader can evenly and continuously supply the material to the conveying pipe. In order to ensure that the gas and solids in the pneumatic output tube are relatively stable, so that the pneumatic conveying can work normally, and at the same time, the upper and lower air pressure of the unloader can be blocked to lock the air. Therefore, the star unloader is an important component commonly used in pneumatic conveying systems. Emergency shut-off valve

☑ When the material in the upper silo falls by its own weight to fill the gap between the blades, it will be discharged at the lower part with the rotation of the blades. Therefore, the star discharger can discharge quantitatively and continuously.

☑ The star-shaped unloader can be used in the material collection system as the unloader of the silo. The

star-shaped unloader is the current domestic unloading device, which is commonly used in the dust removal system as one of the important equipment of the dust removal system. It is especially suitable for dust, small particle materials, and is well-received for selection and selection of engineering projects in industrial industries such as environmental protection, metallurgy, chemical industry, grain, cement, road construction, and drying equipment.

☑ Temperature resistant type The temperature of the material it transports can reach 280°C. The bearing and the impeller at both ends are isolated to a certain extent, which can prevent the superfine powder from contacting the bearing. The temperature of the material conveyed by the high temperature resistant type unloader can reach 500°C, and it is connected by a sprocket.

16 PLC control system



Advantages:

☑ High reliability and strong anti-interference ability

Good self-diagnosis function. Once the power supply or other software and hardware are abnormal, the CPU will take effective measures immediately to prevent the expansion of the fault

☑ The system configuration is simple and flexible, which can realize automatic and manual switching

The control system adopts a modular structure, and the scale and functions of the system can be combined according to the needs of users

☑ Simple installation and convenient maintenance

Due to the modular structure, once a module fails, the user can quickly restore the system to operation by replacing the module.

☑ The functions realized by the controller ----- logic function, timing function, counting function, sequence function