

Cigarette Filter Sorting, Granulating & Baling Solution

Project Overview

The YD-XFY6540 Cigarette Filter Sorting, Granulating and Baling Integrated System combines three critical functions into one complete processing line:

- Metal Removal
- Precision Granulation
- High-Density Hydraulic Baling

The system is specifically designed to address common challenges in cigarette filter recycling, including:

- Metal contamination
- Uneven particle size
- High transportation and storage costs
- Labor-intensive handling processes

With stable performance, easy operation, energy-efficient design, and automated workflow, the YD-XFY6540 is an ideal solution for improving recycling efficiency, reducing operating costs, and enhancing the quality of recycled filter materials.

System Configuration


The equipment adopts a modular design consisting of three main units:

No.	Equipment Description	Model	Qty	Remarks
1	Feeding Conveyor	500	1	Equipped with magnetic metal separation roller (Ø200 mm)
2	Cigarette Filter Granulator	600	1	Output particle size below 20 mm
3	Dual-Cylinder Hydraulic Baler	400	1	Bale size: 300 × 300 × 300 mm

Cigarette Filter Granulating & Baling Integrated System Specifications

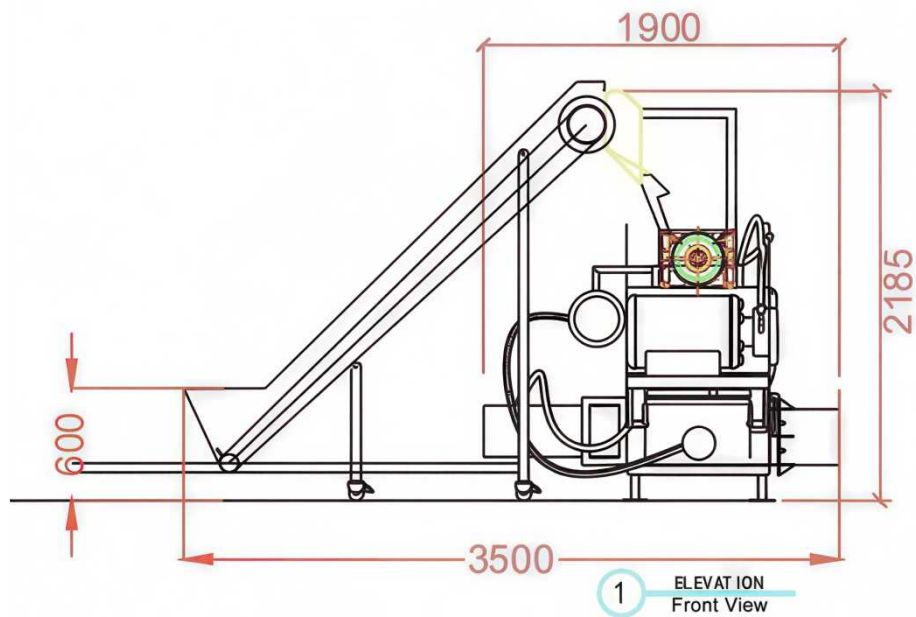
Filter Granulator Specifications	Motor Power	11KW 380V/50HZ	Motor Insulation Class F
	Main Shaft Speed	25rpm	
	Blade Material	9crsi	HRC50-53
	Rotor Knives	17 pcs	
	Spacers	16 pcs	

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	Feed Opening	400*600 mm*mm	
	Output Particle Size	Most particles below 20 mm	
	Maximum Capacity	Approx. 120 kg/h	
	Noise Level	80dB	
	Feed Height	1700mm	
Hydraulic Baler Specifications	Hydraulic Cylinder No.1	Ø140 mm × 400 mm Stroke	
	Hydraulic Cylinder No.2	Ø160 mm × 400 mm Stroke	
	Bale Size	300*300*300mm	
	Hydraulic Pressure	8-12MPA	
	Feed Opening	200*300MM	
	Power Requirement	15KW/380V/50HZ	
	Oil Tank Capacity	120L	For Reference Only
	Operation Mode	Fully Automatic	
	Solenoid Valve	Electro-Hydraulic Type	
	Hydraulic Pump	GBT-563 Gear Pump	
	Bale Discharge Method	Bagging Type	
Overall Dimensions	3500*1900*1400MM		
Total Weight	3500KG		
Total Installed Power	26KW		



Core Advantages

1. Precision Metal Separation

The feeding conveyor is equipped with a high-strength magnetic roller that effectively removes:

- Iron filings
- Nails
- Metal fragments
- Ferrous contaminants

This prevents blade damage and ensures the purity of recycled filter materials.

2. Efficient Granulation

The granulator utilizes:

- Wear-resistant 9CrSi blades
- Multi-knife rotor arrangement
- Low-speed, high-torque cutting technology

Designed specifically for soft and deformable cigarette filter materials.

Advantages include:

- No material sticking
- Minimal dust generation
- Uniform particle size
- Stable output below 20 mm

3. High-Density Baling


The dual-cylinder hydraulic baler compresses loose filter particles into dense standardized bales.

Benefits include:

- Volume reduction of 60–70%
- Reduced storage space requirements
- Lower transportation costs
- Less material loss during handling

4. Fully Automated Processing

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The entire production line operates automatically:

- Feeding
- Metal separation
- Granulation
- Compression
- Bagging

No manual transfer is required between stages.

Simple controls allow ordinary operators to run the system after basic training.

5. Energy-Efficient & Environmentally Friendly

The system features:

- Energy-saving motors
- Low operating costs
- Noise level ≤ 80 dB
- Enclosed safety structure
- No oil leakage
- No dust emission

Suitable for long-term continuous industrial operation.

Typical Applications

1. Cigarette Filter Recycling Plants

Integrated processing of waste cigarette filters including metal removal, granulation, and baling.

2. Tobacco Manufacturing Facilities

Treatment of rejected filters, production scraps, and tobacco-related waste materials.


3. Environmental Recycling Companies

Processing of soft plastic products, sponge materials, and similar recyclable materials.

4. Small and Medium Recycling Workshops

Compact footprint and flexible layout make the system suitable for facilities with limited space and moderate production requirements.

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Customized Engineering Service

This proposal is based on a standard configuration.

The complete system can be customized according to:

- Factory dimensions
- Available floor space
- Material flow direction
- Feeding and discharge requirements
- Production capacity targets

YUEDU provides:

- Site-specific layout design
- Equipment dimension optimization
- Conveyor and piping planning
- One-to-one engineering consultation

to ensure seamless installation, efficient operation, and maximum utilization of available workshop space.

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Business License (Translated Version)

Shanghai Yuedu Technology Co., Ltd.

◆ Company Information

Company Name:

Shanghai Yuedu Technology Co., Ltd.

Unified Social Credit Code:

91310114MA1GUXHQ8H

Company Type:

Limited Liability Company (Invested or Controlled by Natural Persons)

Registered Address:

Room 17239, Building 2, No. 4268 Zhen'nan Road, Jiading District, Shanghai, China

Legal Representative:

Deng Hao

Registered Capital:

RMB 3,700,000

◆ Registration Details

Date of Establishment:

September 5, 2018

Business Term:

From September 5, 2018 to September 4, 2048

◆ Registration Authority

Shanghai Jiading District Administration for Market Regulation

Date of Issue:

September 5, 2018



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✓ Valid for international business cooperation

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About YUEDE Shredders


Shanghai YUEDU Technology Co., Ltd. is a **Shanghai-certified high-tech enterprise** specializing in the development and manufacturing of **shredding and destruction equipment**. We serve a wide range of sectors including **government agencies, financial institutions, military departments, enterprises, and recycling industries**.

Our offerings include **office and industrial-grade paper shredders, hard drive destroyers, plastic crushing systems, and fully customized destruction center solutions**. From design to delivery, we help clients achieve efficient, secure, and compliant material destruction.

Our Mission

We are dedicated to the shredding and destruction industry, continuously solving diverse material shredding and disposal challenges for our clients around the world.

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