

Waste Paper Shredding & Collection Solution for Cigarette Production Lines

Pilot Application: China Tobacco Industry Wuhan

Online collection, size reduction, and clean handling of cigarette wrapping paper waste

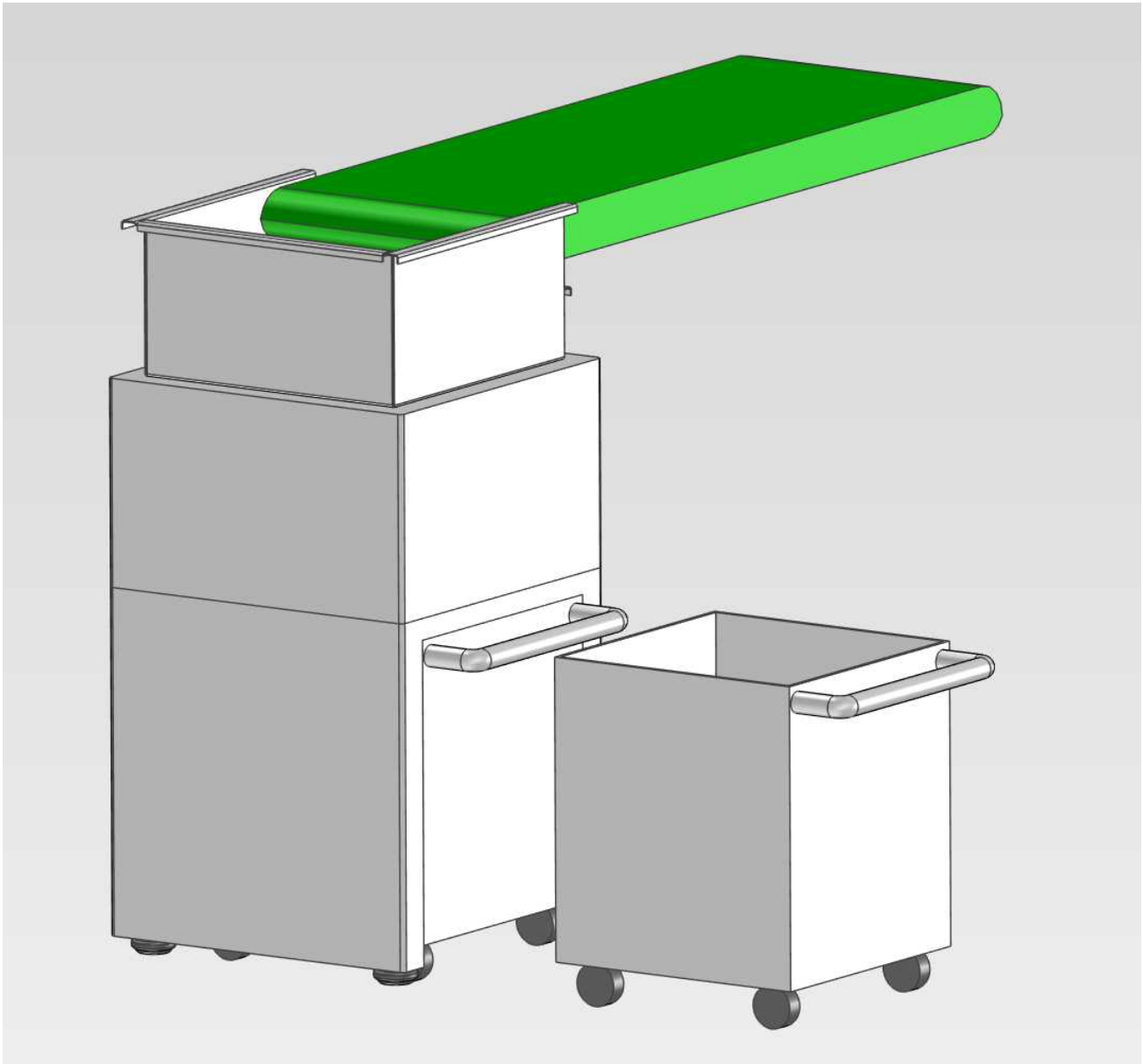


Figure 1. 3D concept view

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1. Project Background

This proposal is prepared for the waste collection issue on cigarette production lines. The objective is to integrate a compact online collection and shredding unit beside the existing production equipment, so that thin cigarette wrapping paper waste can be collected, shredded, compacted by volume, and transferred in a cleaner and more controlled way without affecting the production rhythm.

- End user: China Tobacco Industry Wuhan.
- Application: supporting equipment installed beside cigarette production lines.
- Deployment plan: more than 10 production lines may require one unit per line after pilot validation.
- Working time: approximately 8 hours of production-line use per shift.
- Space limitation: each unit should fit within an approximate 500 x 500 mm floor area where possible.
- Current issue: waste paper falls directly to the floor, which affects the production environment and cleaning efficiency.

2. Material Characteristics and Waste Conditions

Item	Requirement / Working Condition
Material name	Cigarette outer wrapping paper and other thin paper waste from production lines
Material characteristics	Lightweight, thin, easy to float or scatter; approximate width: 90 mm
Waste form	Continuous strip waste and approximately 200 mm intermittent sheet pieces
Generation speed	Approximately 76 meters per minute
Required capacity	Approximately 20 jin per hour, equal to about 10 kg/h. Based on the cleaning cycle of about 6 kg every 30 minutes, the recommended design check capacity is 10-12 kg/h.
Manual cleaning cycle	Preliminary design target: once every 30 minutes; about 6 kg per cleaning cycle
Target particle size	Approximately 1 x 10 mm

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3. Overall Solution Concept

The proposed system adopts an integrated structure consisting of an upper guide/feeding section, a middle shredding section, and a lower mobile collection bin. Thin paper waste generated by the production line enters the upper inlet, passes through the shredding mechanism for size reduction, and then falls into the lower collection bin. Operators can pull out the bin and clean or replace it according to the planned cycle.

- Online collection: receives fast-falling thin paper waste and prevents direct floor accumulation.
- Size reduction: shreds thin paper into approximately 1 x 10 mm particles to reduce bulk volume and improve handling.
- Anti-blocking design: the inlet, cutter area, discharge path, and collection bin should be optimized for lightweight paper that may float, bridge, or pile up.
- Mobile collection: the lower drawer/bin should be light, strong, and equipped with wheels for easy handling by female operators.
- Clean appearance: stainless-steel sheet-metal housing is recommended for a clean, durable, and factory-friendly appearance.

4. Recommended Equipment Structure

Section	Design Description	Key Requirement
Upper inlet / guide structure	Approximate inlet envelope: 400 x 400 x 450 mm; designed to receive paper waste from the production line	Smooth feeding for continuous strips and sheet pieces; reduce paper scattering
Shredding unit	Installed in the middle body to cut and reduce the volume of paper waste	Target particle size about 1 x 10 mm; anti-wrapping and anti-blocking design for thin paper
Lower machine body	Approximate lower space: 400 x 400 x 1000 mm for collection bin and support structure	Compact layout; suitable for installation beside the production line
Collection bin / drawer	Preliminary concept: upper/lower bin or drawer-style alternating collection structure	Capacity around 6 kg per cycle; strong but lightweight; wheeled for easy movement
Sheet-metal housing	Stainless-steel sheet metal with an approximate thickness of 1.5 mm	Good appearance, easy cleaning, and suitable for the production workshop image

5. Preliminary Technical Parameters

Parameter	Recommended Value / Design Target	Remarks
Equipment purpose	Online collection and shredding of waste paper from cigarette production lines	For cigarette wrapping paper and similar thin paper waste
Single-line capacity	Design check: 10-12 kg/h	Covers the 20 jin/hour requirement and the 6 kg/30-min cleaning condition
Working time	8 hours per shift	Production-line supporting operation
Upper inlet	Approx. 400 x 400 x 450 mm	To be optimized according to the on-site interface
Lower space	Approx. 400 x 400 x 1000 mm	For drawer/bin and supporting structure
Floor space target	Approx. 500 x 500 mm	Compact footprint for each production line
Shredded size	Approx. 1 x 10 mm	Based on the customer target
Cleaning cycle	Approx. once every 30 minutes	Approx. 6 kg per cycle
Main material	Stainless-steel sheet metal, approx. 1.5 mm thick	Aesthetic, durable, and easy to clean
Mobility	Castors for equipment base and collection bin	Convenient for movement, maintenance, and cleaning

6. Working Process

Step	Process Description
1. Waste generation	The cigarette production line generates continuous strip waste or approximately 200 mm sheet pieces; material width is about 90 mm.
2. Upper feeding	Waste paper enters the upper inlet from the production-line discharge point, avoiding direct floor drop.
3. Shredding	The paper enters the cutting chamber and is shredded to the target size of about 1 x 10 mm.
4. Collection	Shredded paper falls into the lower drawer/bin or collection chamber.
5. Manual cleaning	The operator pulls out the collection bin approximately every 30 minutes for cleaning or replacement.
6. Continued operation	The equipment resumes online collection and supports 8-hour production-line operation.

7. Drawing and Concept Illustration

Based on the supplied drawing, the equipment consists of a green conveying/guide section, an upper inlet box, a middle shredding body, a lower drawer-style collection bin, and mobile casters. The concept shows a compact vertical arrangement suitable for installation beside a production line. The collection bin can be pulled out independently for scheduled cleaning.

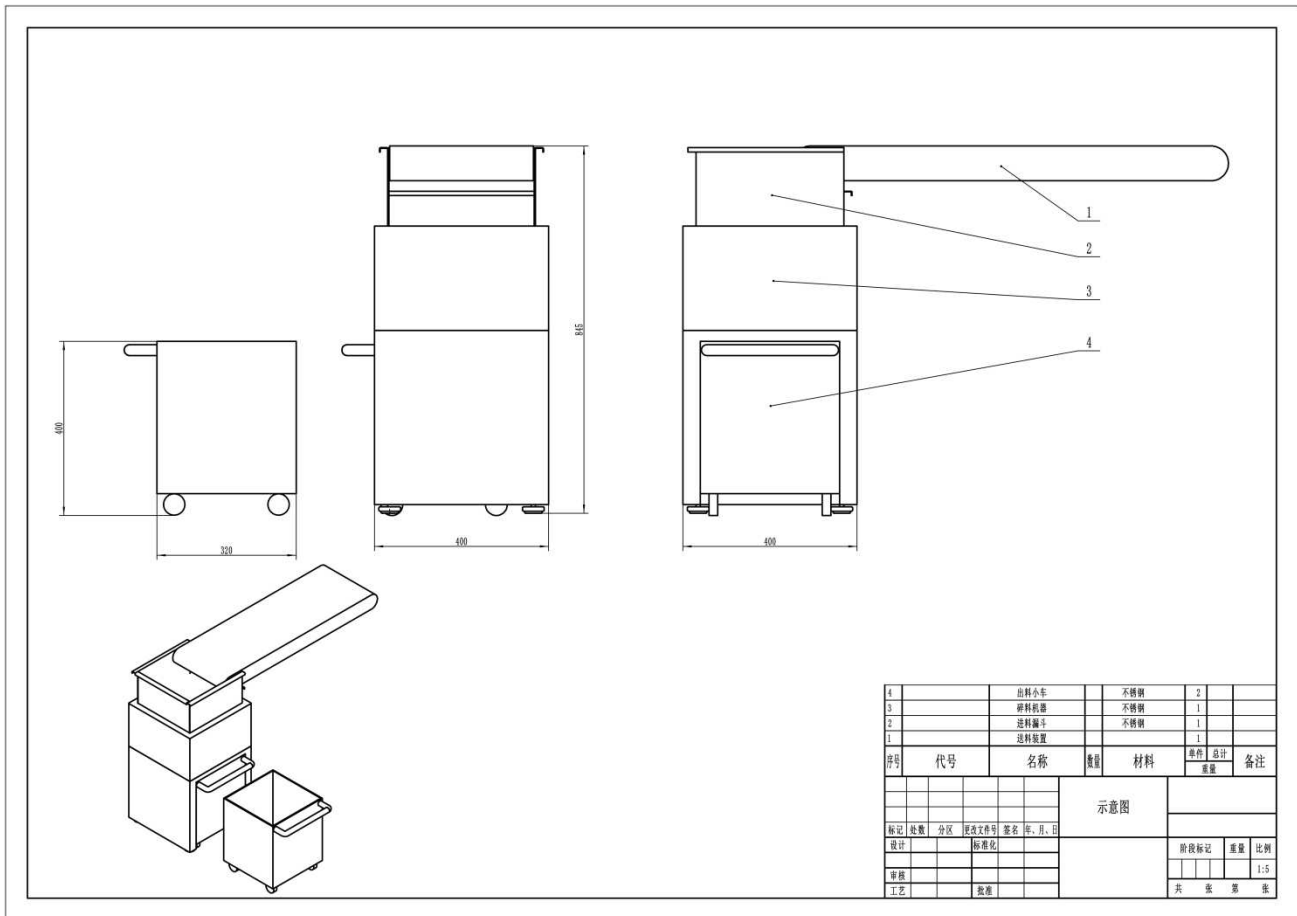


Figure 2. structure illustration

8. Expected Advantages

- Space saving: compact vertical layout with an approximate 500 x 500 mm footprint target for each production line.
- Cleaner workshop: reduces lightweight paper falling, floating, and accumulating on the floor.
- Lower cleaning pressure: shredding reduces bulk volume and supports the preliminary cleaning cycle of about once every 30 minutes.
- Scalable deployment: after successful pilot testing in Wuhan, the same design can be standardized for more than 10 production lines.
- Operator-friendly handling: lightweight wheeled drawer/bin is easy to pull out,

clean, and move.

- Professional appearance: stainless-steel housing is suitable for tobacco factories where equipment appearance and cleanliness are important.

9. Items to Confirm Before Final Design

- Exact height of the production-line discharge point, paper falling direction, and relative position between the production equipment and the inlet.
- Whether the continuous strip paper has static electricity, adhesion, curling, or local accumulation issues.
- Whether an additional guide cover, air-assist structure, or light pressing structure is allowed on site to prevent paper floating.
- Available power supply, noise requirement, safety interlock requirement, and whether production-line stop/start linkage is needed.
- Whether the 1 x 10 mm particle size is a strict requirement or whether volume reduction and clean collection are the primary objectives.
- Whether full-bin indication, drawer-in-position detection, or other operator assistance functions are required.

10. Why Choose YUEDU

YUEDU has long-term service experience in the packaging, printing, tobacco, security printing, paper-plastic packaging, labeling, and related production industries. We understand the on-site collection, shredding, volume reduction, and transfer requirements for lightweight paper, cigarette packaging paper, label materials, printing offcuts, and paper-plastic composite materials. For this project, which involves continuous discharge of cigarette outer wrapping paper, restricted space, a 30-minute cleaning cycle, and the need to prevent waste paper from falling or scattering, YUEDU can provide engineering experience that is closer to real

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production conditions.

In the tobacco industry, YUEDU has served multiple cigarette factories and cigarette-packaging printing companies within the China Tobacco system. We understand tobacco factories' requirements for equipment appearance, cleanliness management, stable operation, safety protection, site space, and future replication. This proposal should not be viewed as a single small paper shredder only, but as part of an online waste collection and workshop-environment optimization system for cigarette production lines.

YUEDU Core Strengths

- Extensive packaging and printing industry experience: familiar with the shredding characteristics of thin paper, labels, cigarette packaging paper, cartons, paper-plastic packaging materials, and related waste.
- On-site tobacco industry experience: experienced in serving cigarette factories and cigarette-packaging printing enterprises, with an understanding of their requirements for cleanliness, safety, stability, and continuous production.
- Customized engineering capability: able to design non-standard structures according to production line interface height, falling direction, site space, and cleaning method.
- Compact design and batch-replication capability: suitable for trial use at China Tobacco Wuhan and replication to more than 10 production lines after validation.
- System-level thinking from equipment to site application: not only considering shredding performance, but also material guiding, anti-blocking, drawer-bin removal, operator convenience, and workshop image.

Representative Industry References (Selected)

- Tobacco and cigarette-packaging printing: Shenyang Cigarette Factory, Hongta Liaoning Tobacco Co., Ltd., Yunnan Hongta Color Printing & Packaging Co., Ltd.,

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Hubei Wuhan Hongzhicai Cigarette Packaging Printing, and Hunan Zhongnan JinYE Printing Co., Ltd.

- Large-scale and commercial printing: Heidelberg Printing Equipment Shanghai Co., Ltd., RR Donnelley Printing Chengdu Factory / Shanghai Factory, Beijing Printing Group No. 2 Printing Factory, and Innoal Group Shanghai Factory / Beijing Factory.
- Packaging and paper-plastic enterprises: YUTO Group Suzhou / Kunshan / Xuchang / Dongguan / Chongqing factories, MYS Group Suzhou / Dongguan factories, Stora Enso Packaging Technology Tangshan / Changzhou factories, Shanghai Ailu Paper Packaging Co., Ltd., and Shanghai Saiwen Paper-Plastic Packaging.
- Labels, anti-counterfeiting, certificates, and card printing: Guangzhou Kelin Anti-counterfeiting Printing, Guangzhou Leimas Label Company, Hubei Huangshi G&D Wanda Gold Card Co., Ltd., Inner Mongolia Golden Tax Security Printing Co., Ltd., and Shanxi Changzhi Voucher Printing Factory.

Business License (Official Chinese & English Translation)



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Shanghai Yuedu Technology Co., Ltd.

◆ Company Information

Company Name:

Shanghai Yuedu Technology Co., Ltd.

Unified Social Credit Code:

91310114MA1GUXHQ8H

Company Type:

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Registered Address:

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Yinxiang Road, Jiading District,

Shanghai, P.R.China

Legal Representative:

Deng Hao

Registered Capital:

RMB 3,700,000

◆ Registration Details

Date of Establishment:

September 5, 2018

◆ Registration Authority

Shanghai Jiading District Administration for Market Regulation

Date of Issue:

July 29, 2025



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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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