

Central Bank & Banknote Printing Industry Solution

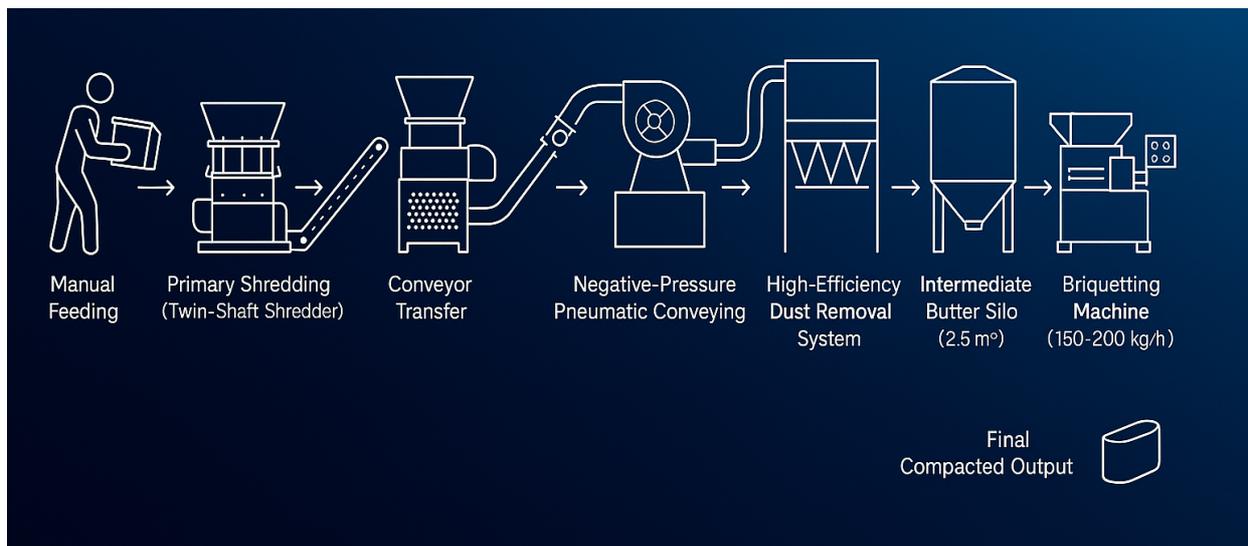
Banknote Destruction Systems

1 mm Powder | Integrated Shredding + Briquetting



SHANGHAI YUEDU TECHNOLOGY CO., LTD. @YUEDUshredders

Secure. Efficient. Compliant.



*BDS for Central-bank-level:
Two-Stage Shredding / Dust Extraction & Filtration / Briquetting*

Case study • Client A

Banknote Destruction Machine



Integrated Baler and Compactor



Output



 **Industry Background**

Banknotes, securities, and confidential financial materials require **strict, centralized destruction** under national regulations. In most countries, the **Central Bank or Security Printing Corporation** mandates that obsolete or damaged banknotes be **shredded and compacted** before final disposal — ensuring both **security and traceability** throughout the process.

 **YUEDU Solution Overview**

Goal: Provide a secure, reliable, and scalable destruction line from in-feed to briquette, with full process traceability and low TCO.



Structure solutions as Standard / Modular / Tailored Lines, all modular & scalable to site constraints and capacities.

Capacity spans 20–1,000 kg/h (standard) and can be customized up to 1,500 kg/h; shredding, suction, dust filtration and briquetting are delivered as one coherent solution.

Capacity Tiers



Standard Line

20–300 kg/h



Modular Line

300–1,000 kg/h



Tailored Line

1,000–1,500 kg/h +

Solution Architecture

System Workflow

Feeding → Shredding → Dust Dust Extraction & Pneumatic Conveying → Briquetting / Bagging → Monitoring & Control → Storage/Dispatch



Each stage works seamlessly through modular design and centralized PLC control, ensuring **continuous operation, data traceability, and high-level security** for national banks, mints, and document destruction centers.

System Composition

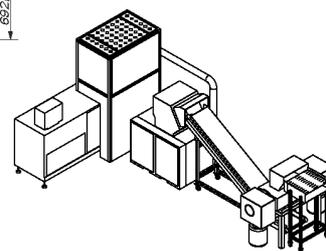
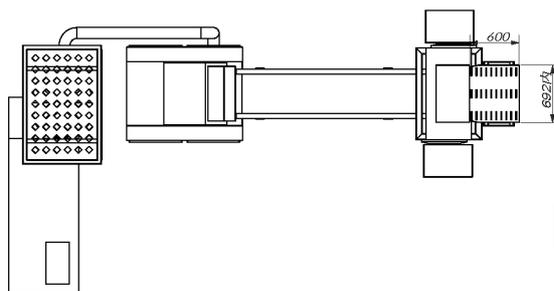
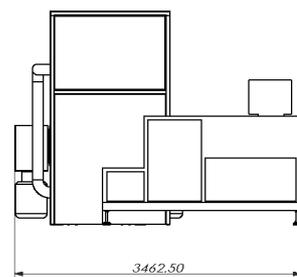
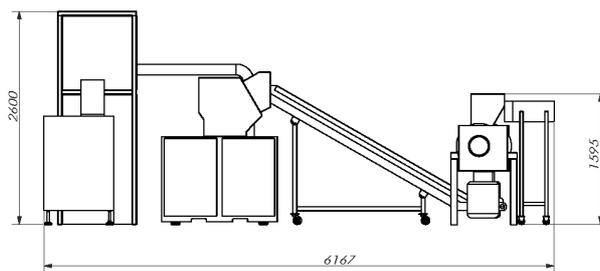
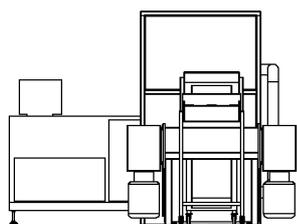
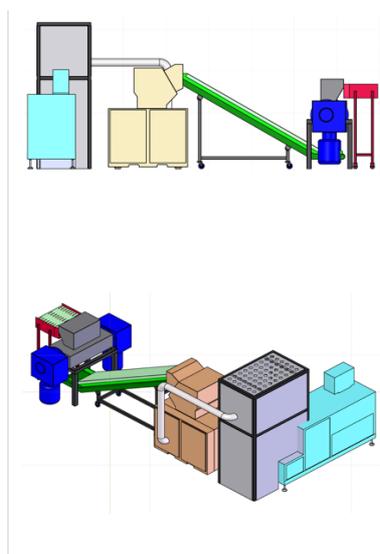
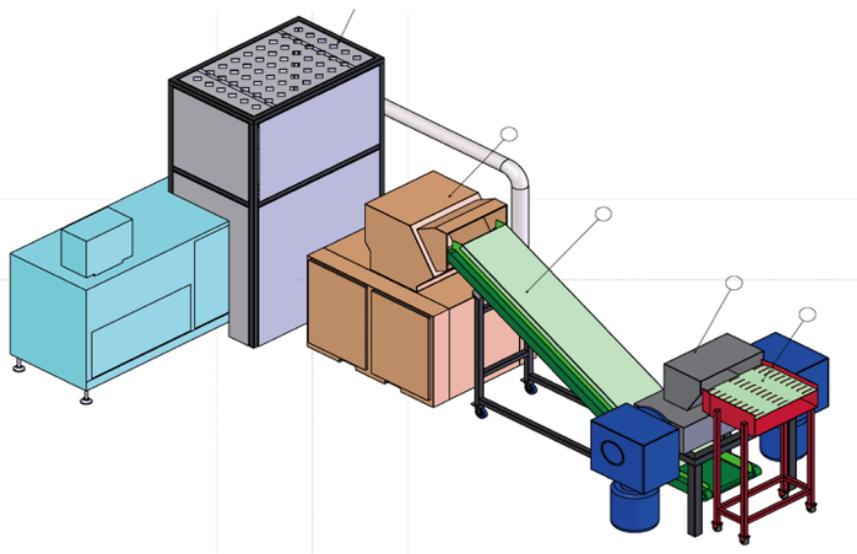
No.	Module 模块	Description (English)
1	Feeding & Preparation Unit	Handles the intake of obsolete banknotes or securities. Designed with safety covers and anti-jam protection to ensure stable feeding.
2	Shredding Unit	High-torque industrial shredder reduces banknotes into fine particles of 1–3 mm (up to 1 mm powder for top-security applications).
3	Dust Extraction Unit	Multi-stage dust collection and filtration system maintains a clean, dust-free working environment and protects operators.

No.	Module 模块	Description (English)
4	Briquetting / Compaction Unit / Bagging	<p>Briquetting / Compaction Unit Compress shredded particles into Ø90×40 mm briquettes for easy weighing, storage, and traceable disposal.</p> <p>Bagging / Boxing More economical and easier to handle and ship for small volumes or polymer notes.</p>
5	PLC & Monitoring with Traceability	<p>Central control with touch-screen interface integrates all modules, providing real-time operation data, weighing records, and video traceability.</p> <p>Lockable hoppers and the two-person rule ensure secure batch operations with full auditability.</p>
6	Optional Modules	<p>Customizable extensions such as conveyor auto-feeding, magnetic separation units, weighing platforms, Remote diagnostics, Reports & dashboards.</p>

Capacity Tiers & Line Types

Reference Line	Typical Capacity	Usage Scenarios	Models
Standard Line	20–300 kg/h	Security Rooms / Municipal Destruction Room	<p>Solution C: Cost-Effective 1–3mm Shredding</p> <ul style="list-style-type: none"> ✓ (6/7) QL300 – QL600 Series – Budget-friendly shredders from \$2,000 ✓ (7/7) SL500 – SL700 Series – Silent, high-security shredding for offices <p>Solution B: Ultra-Fine 1mm Shredding System</p> <ul style="list-style-type: none"> ✓ (4/7) 300BM1 – 600BM1 Series – Ultra-fine shredding (1mm) for P-6 compliance^[1] ✓ (5/7) Modular Systems 6002 & 4001 – Customizable with briquetting/baling
Modular Line	300–1,000 kg/h	Provincial / National Treasury Large-Scale Center	<p>Solution A: Integrated Shredding & Briquetting</p> <ul style="list-style-type: none"> ✓ (1/7) BM3002P-9075 – High-security integrated shredding & briquetting ✓ (2/7) BM6002P – Dual-stage shredding for high-capacity destruction ✓ (3/7) Models 5002 & 5001 – Shredding + baling combo
Tailored Line	1,000–1,500 kg/h+	National Cash Center / Banknote Printing Plant / Central Banks	

Case study • Client B



Recommended Models

Model	Type & Positioning	Target Scenario	Capacity / Briquette Throughput / Baler	Key Highlights
BM3002P-9075	Integrated shredding + briquetting	Provincial / Municipal Destruction Room	100–150 kg/h @ 3 mm; ~75 kg/h @ 1 mm Ø90×40 mm paper briquette 纸砖	Closed feeding, dual-control, PLC HMI, video & weighing traceability
BM6002P	Modular 1 mm mainline	Provincial Bank / Treasury Center	300–700 kg/h (scalable)	Briquetter / Baler Multi-point suction, long-run ducting, cross-room/floor
BM6002P (Parallel) + YKJ90-75 / 90-250	High-throughput parallel line	National Cash Center / Banknote Printer	1000 kg/h+	YKJ90-75 (single port) / YKJ90-250 (dual port) Scalable, low TCO, high uptime
BM4001	Compact 1 mm upgrade	Small rooms / retrofit	250 kg/h+	YKJ90-75 (single port) / YKJ90-250 (dual port) Quick fit-in; integrate with existing suction & briquetter
5002 (or 5001/500CC202 4)	Pre-shred + baling	Pre-shred to offload main line	500–600 kg/h (single line)	Bale 50–75 kg Reduces main load & raises stability
YTJ-BM1 Series (300/400/500/600BM1)	Ultra-fine 1×1 mm	Classified room / Military / Finance	80–500 pages per put	Belt-feed; handles thick bound files
SL500 / SL600 / SL700	Silent high-security	Office / Voucher Room	— —	Low noise, compact footprint
QL300–QL600	Cost-effective line	Small / Mid volume	— —	Budget-friendly; prefer bagging/boxing
PSJ300 / 350 / 500 / 468	Industrial pre-shred	Books/archives pre-shred	100–1000+ kg/h	Dual-inlet, continuous duty

III Case Studies

- **People's Bank of China (PBOC)** – Provincial Destruction Centers
- **Shanghai Mint & Nanjing Mint** – Banknote printing & recycling
- **National Security Printing Plant** – Integrated shredding + briquetting
- **African & Asian Central Banks** – YD-BM3002P customized destruction line
- **Classified/confidential entity** – YD-BM6002 ultra-fine (powder-grade) shredding system.

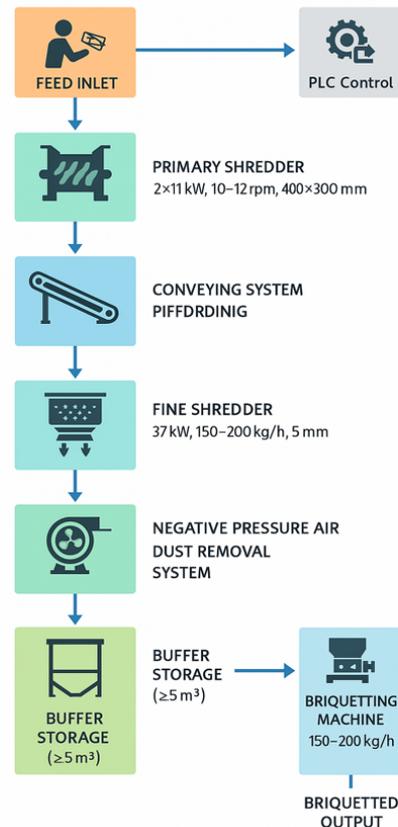
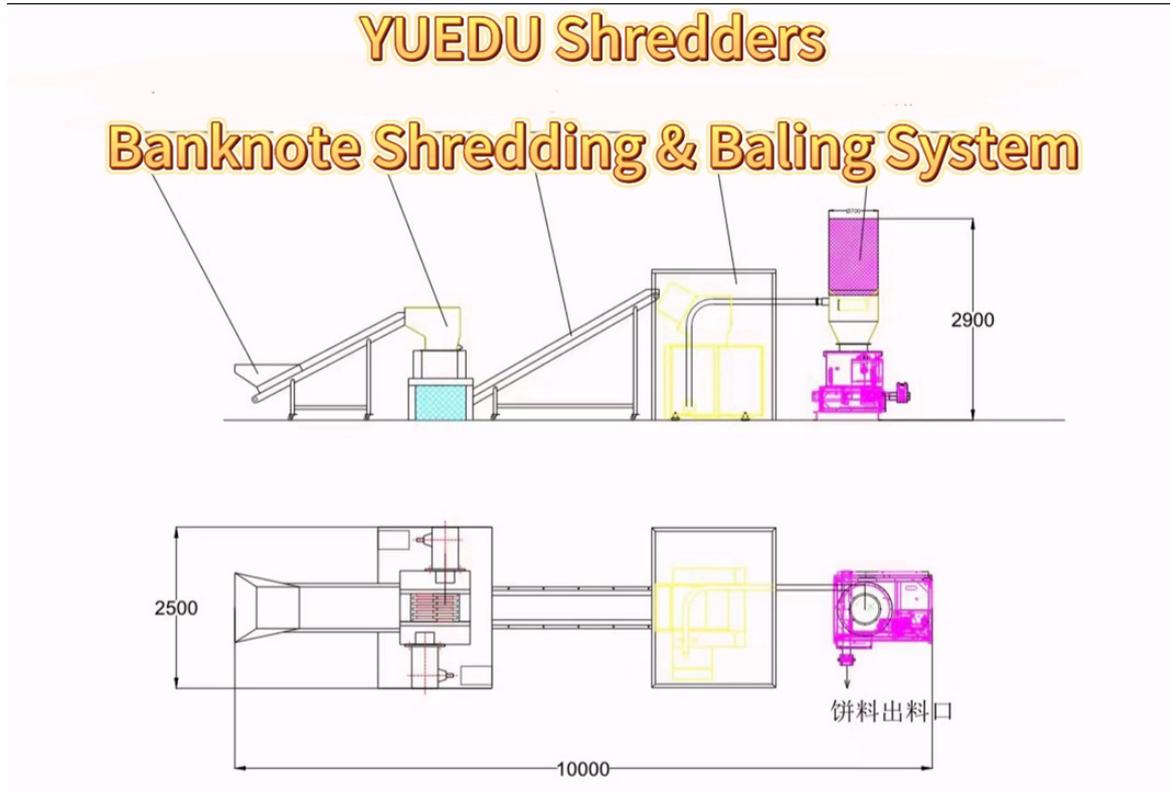
Case study • client C



Case study • client D



Case study • client E
A Central Bank in the Russian Region



Compliance & Certification

- ✓ DIN 66399 P-6 / P-7
 - ✓ China National Level 1 Confidentiality Standard
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Why YUEDU

- Aligned with international architectures (Standard / Modular / Tailored) covering the full process—feeding, shredding, suction, briquetting, and monitoring—while delivering **lower cost** and **faster lead times**.
- **Integrated + modular** approach: from small destruction rooms to **national cash centers**, with optional **briquetting** or **bagging** configurations.
 - ✓ **Proven technical capability** in multi-stage shredding systems
 - ✓ **Compliance with central bank destruction standards**
 - ✓ **Stable, durable, and safety-certified industrial machinery**
 - ✓ **Experience integrating complete destruction lines**
(coarse shredding → fine shredding → air conveying → dust removal → briquetting)

YUEDU is fully qualified to deliver:

- **Safe**
- **Reliable**
- **International-standard**
- **Long-term maintainable**

banknote destruction systems for the Central Bank.

Contact Us

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@YUEDUShredders – Empowering Global Industries with Intelligent Destruction Systems.
