

Wafer Crushing & Destruction Solution

— Secure, Controlled, and Scalable Processing for Semiconductor Materials

Customer Cases & Wafer Crushing Videos:

	Case1:	Case2:	Case3:
Photos			
Videos	Secure Destruction of Wafers, Chips & Memory Cards YUEDU YD-PSJ350 https://youtube.com/shorts/FGDivqF2v0I	Wafer Destruction Done Right! YUEDU SL500 pulverizes wafers into 2mm dust https://youtube.com/shorts/9Xs31NX-dGk	💡 YUEDU Shredder for 8-inch Silicon Carbide (SiC) Wafers 🚀 https://youtube.com/shorts/GweY1NaiYaQ
Customer Feedback	"Stable operation. Almost no dust when connected to the dust collection system. Highly suitable for batch processing."	"Capable of processing up to 1 ton per hour. High level of system integration, easy to manage."	"Fully compliant with ISO secure destruction standards. Compatible with factory MES systems, with clear and traceable records."

	Case4:	Case5:	Case6:
Photos			
Videos	Semiconductor Material Shredding Perfectly Compliant Shredding Specifications https://youtube.com/shorts/6CRBqblPP5o	Silicon Wafer 3-5mm Shredding Powder Effect from Semiconductor Shredder https://youtube.com/shorts/Ft4Z8n15A44	Silicon Wafer Material Shredding in University Labs and R&D Centers - Yuedu Shredding https://youtu.be/MXzJqOrSvh0
Customer Feedback	"Robust and reliable. Easy maintenance and significantly improved efficiency."	"Compact, quiet, and low dust emission. Ideal for laboratory applications."	"Stable operation with uniform output. The dust collection system runs very quietly."

1. Overview

YUEDU provides advanced wafer crushing and destruction systems designed for **semiconductor materials, silicon wafers, and high-value electronic components**.

These systems are widely used for:

- Secure destruction of sensitive semiconductor materials
- Recycling and recovery of valuable materials
- Laboratory testing and sample preparation

The solution supports **customized feeding, particle size control, and fully enclosed operation**, meeting both **security compliance and recycling requirements**.

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2. Typical Materials Processed

The system is designed to handle a wide range of brittle and high-value materials:

- Silicon wafers (monocrystalline / polycrystalline)
- Sapphire wafers (Al_2O_3)
- Silicon carbide (SiC)
- Gallium arsenide (GaAs)
- Gallium nitride (GaN)
- Semiconductor scrap (packaged dies, IC waste)
- Photovoltaic silicon scraps and offcuts

These materials are characterized by:

- High hardness
 - Brittleness
 - Dust generation
 - High value
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3. Key Challenges

Wafer and semiconductor material processing involves several technical challenges:

- Hard and brittle materials requiring controlled crushing
 - High dust generation requiring enclosed systems
 - Risk of contamination affecting material recovery
 - Need for precise particle size control
 - Requirement for secure destruction of sensitive data
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4. System Architecture

YUEDU provides a **modular wafer crushing system**, which can be configured based on capacity and application.

Typical system includes:

- Feeding system (manual / conveyor / hopper)

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- Primary crushing unit
- Secondary fine crushing unit
- Cooling and dust control system
- Screening and sorting system (optional)
- Collection and storage system

👉 Modular design allows flexible integration for different applications.

5. Crushing Process Flow

Step 1: Feeding System

- Manual feeding or automated conveyor
- Ensures stable and controlled input
- Prevents overloading and blockage

Step 2: Crushing Unit

- Multi-stage crushing (coarse → fine)
- Combination of:
 - Low-speed shredding
 - High-torque crushing
- Achieves particle size down to **1 mm**

Step 3: Cooling & Dust Control

- Negative pressure dust extraction system
- Optional water cooling or air cooling
- Prevents:
 - Overheating
 - Static electricity
 - Dust dispersion

Step 4: Screening & Sorting (Optional)

- Vibrating screen
- Airflow separation

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- Magnetic separation

👉 Enables:

- Particle size classification
- Metal impurity removal
- Material purification

Step 5: Collection & Storage

- Sealed containers / bags / bins
 - Prevents secondary contamination
 - Supports safe transport and recycling
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6. Key Features

- Adjustable particle size (down to **1 mm**)
 - Fully enclosed and dust-proof design
 - Low heat generation to protect sensitive materials
 - Supports integration with dust collection and MES systems
 - Suitable for cleanroom-compatible configurations
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7. Performance Advantages

- Stable and continuous operation
 - High processing efficiency (up to **1 ton/hour**, depending on system)
 - Minimal dust leakage with proper filtration
 - Uniform particle size distribution
 - Flexible system scaling from lab to industrial level
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8. Application Scenarios

🧪 Laboratory & R&D

- Sample preparation
- Small-batch wafer destruction
- Low-noise, compact systems

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Semiconductor Manufacturing (Fab / OSAT)

- Scrap wafer destruction
- Defective material processing
- Secure destruction compliance

Photovoltaic Industry

- Silicon wafer recycling
- Edge trimming waste processing
- High-throughput industrial systems

Recycling Industry

- Multi-material semiconductor waste
- Precious material recovery
- Environmental compliance processing

9. Capacity Range

Application	Capacity
Laboratory	10–30 kg/h
Industrial (Mid-scale)	100–300 kg/h
Large-scale systems	300–1000 kg/h+

10. Recommended Machine Categories

Small-Scale (Lab Use)

- YD-330CC
- YD-338CC-HD
- YD-PSJ300

 Compact, low noise, enclosed design

Mid-Scale Industrial

- YD-PSJ350
- YD-SL3020 / SL3040

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- YD-SL400 / SL500

 Continuous operation with dust control

Large-Scale Systems

- YD-SL600 / SL700 / SL800
- YD-SL60120
- YD-BM6002P (customized)

 High throughput, fully integrated systems

11. Customer Feedback

- “Stable operation with minimal dust when connected to filtration system.”
 - “Integrated system simplifies management and improves efficiency.”
 - “Fully compliant with ISO secure destruction requirements.”
 - “Compact, quiet, and suitable for laboratory environments.”
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12. Project Value

Security Value

- Irreversible destruction of wafers
- Prevents data recovery

Recycling Value

- Enables recovery of valuable materials
- Supports downstream processing

Operational Value

- Stable, continuous operation
- Reduced manual handling

Environmental Value

- Dust-controlled, enclosed processing
- Meets environmental standards

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13. Conclusion

YUEDU wafer crushing systems provide a **complete solution for secure destruction and material recovery** of semiconductor materials.

By combining:

- Controlled crushing
- Dust management
- Modular system design

The solution delivers:

- ✓ High security
 - ✓ High efficiency
 - ✓ High reliability
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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:

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Legal Representative:

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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:

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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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