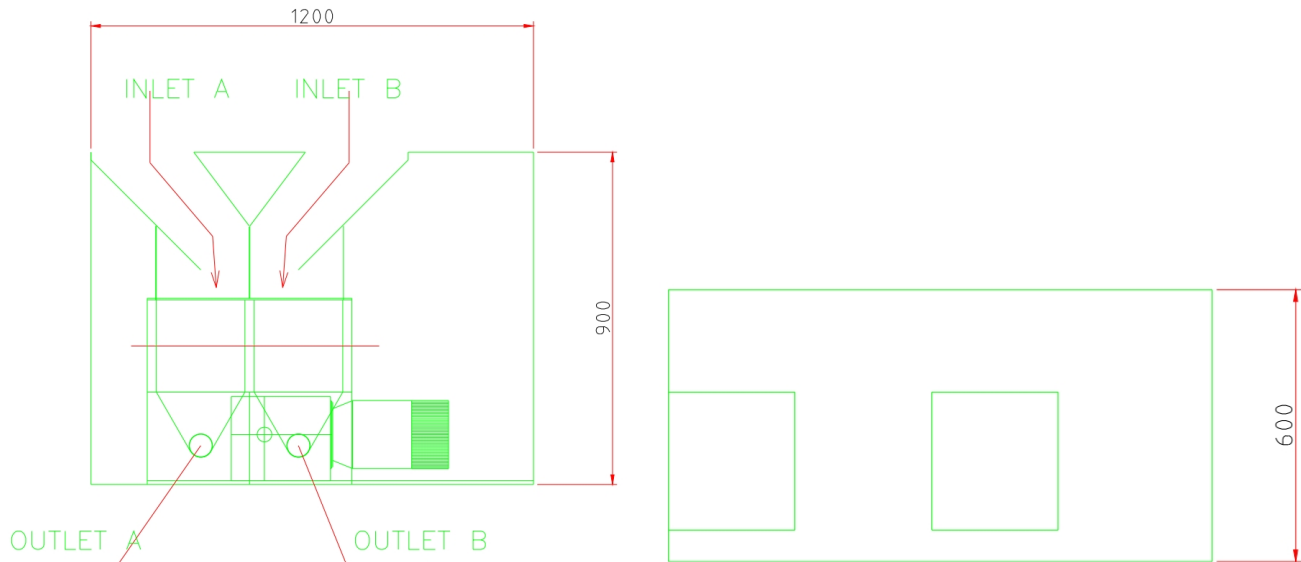


## Dual-Channel Battery Electrode Cutting & Pre-Processing Module



### 1. Application Background

After dismantling and separation, battery electrode materials (anode and cathode) are usually in long strip or sheet form.

Feeding them directly into downstream processes may cause:

- Entanglement and blockage
- Unstable conveying
- Over-shredding and dust loss
- Material mixing, reducing recovery purity

A **controlled cutting and pre-processing step** is therefore required before further processing.

## 2. Solution

This module is designed as a key pre-processing unit in battery recycling lines to:

- Cut electrode materials to controlled size (40–50 mm)
- Prevent entanglement and ensure smooth conveying
- Avoid over-shredding and reduce material loss

Suitable for continuous processing after anode/cathode separation.

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## 3. Process Flow

Separation System

- Dual-Channel Feeding (Anode / Cathode)
  - Controlled Cutting Module
  - Independent Discharge
  - Conveyor → Downstream Processing
- 

## 4. Key Features

- Dual-channel design for independent material handling
  - Low-speed cutting, no over-shredding
  - Anti-entanglement structure for stable operation
  - Compact design, easy system integration
  - No Cu / Ni / Zn contamination in contact parts
  - Low power consumption
-

## 5. Technical Specifications

Item	Specification
Type	Dual-Channel Electrode Cutting Module
Channels	2
Inlet Size	300 × 300 mm
Output Size	40–50 mm (adjustable)
Motor Power	0.75 – 1.1 kW
Gearbox	K67
Blade Material	55SiCr
Blade Configuration	12 rotary / 8 fixed
Machine Size	Customized (reference width ≤1270 mm)

## 6. Value for Customers

- Improved feeding stability
- Reduced dust loss, higher recovery efficiency
- Better material purity
- More stable downstream processing

## 7. Applications

- Lithium battery recycling lines
- Electrode material pre-processing
- Battery manufacturing scrap handling
- Copper foil / aluminum foil cutting
- Film and composite material processing

## 8. Industry Reference

This type of solution is widely used in advanced battery manufacturing and recycling environments.

**CATL (Contemporary Amperex Technology Co., Limited)**, one of the world's leading battery manufacturers, represents the high standard of material handling and processing requirements in this industry.

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## Business License (Official Chinese & English Translation)



### 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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In case of any discrepancy, the original Chinese version shall prevail.

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- ✓ Officially issued by Chinese government authority
- ✓ 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.


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## **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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