Green and environmentally friendly
low-carbon development

绿色环保　低碳发展

For more product information
please visit our website:

www.aclshred.com

南京爱克尔机械科技有限公司

ACULON MECHANICAL INDUSTRIAL CO., LTD

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本样册中所有产品的外观、配置及技术参数若有变动，以实物为准。

The appearance, configuration and technical parameters of all products in this catalog are subject to change. The actual product shall prevail.

ACLMEC



ONE-STOP
shredding solution

为您提供一站式破碎解决方案





南京爱克尔机械科技有限公司

ACULON MECHANICAL INDUSTRIAL CO., LTD

ACLMEC

SINCE 2000

ACLMEC 已在多个行业进行了大量投资，尤其是在钣金加工设备、切削刀具和废料回收设备的生产方面，并取得了卓越的成果。

在 ACLMEC，我们所有零部件的生产和制造均在公司内部完成，以确保达到高标准。**因此，我们能够为客户提供一站式综合服务，始终将客户需求放在首位，并竭力满足客户需求。**

ACLMEC has made extensive investments in various industries, particularly in the production of sheet metal processing equipment, cutting tools, and waste recycling equipment. And achieved outstanding results.

At ACLMEC, we handle all these components in-house to meet high standards. Thus, it enables us to offer customers a comprehensive one-stop service, ensuring that their needs are always our top priority and fully met.



ABOUT US
关于我们

凭借在回收加工行业超过 25 年的经验，我们致力于提供耐用稳定的破碎机和其他回收工具，以满足各种应用需求，例如废物处理、塑料造粒、金属加工、木材切片和纸张回收。我们的产品采用坚固的结构、优质的材料和先进的技术精心打造，并高度重视安全性。这确保了产品卓越的耐磨性和超长的使用寿命，为您提供所需的信心和安全保障。

我们致力于提供高效且定制化的解决方案，帮助客户提高生产效率、降低维护成本并实现可持续的回收利用。如需了解更多信息或下单，请联系我们或访问我们的网站。

With over 25 years of experience in the recycling processing industry, we focus on providing durable and stable shredders and other recycling tools that meet the needs of various applications, such as waste dealing, plastic granulating, metal processing, wood chipping, and paper recycling. Our products are crafted from robust structures, premium materials, and advanced technologies, with a strong emphasis on safety. This also ensures exceptional wear resistance and a long service life, providing you with the confidence and security you need.

We are committed to delivering efficient and customized solutions that help our customers improve productivity, reduce maintenance costs, and achieve sustainable recycling performance. For more information or to place an order, please get in touch with us or visit our website.







工艺精湛　高效产能　精密制造　工业用电

ACLMEC

Single Shaft Shredder

单轴破碎机



剪切原理
CUTTING PRINCIPLE

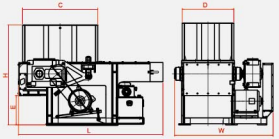
切削部分由刀辊、刀粒、定刀和筛网构成，刀粒与定刀的最小安装间隙为0.1mm。电机通过减速机带动刀辊高速旋转，从而安装在刀辊上的刀粒与定刀形成切削，通过一次切削后，如果物料的尺寸小于筛网的孔径，则从网孔出料，否则物料在刀箱内进行二次或多次切削，达到出料的尺寸为止方能出料。

The c utting part is composed of a cutter roll, a cutter grain, a fixed cutter and a screen, and the minimum installation interval between the cutter grain and the fixed cutter is 0.1mm. The motor drives the knife silver to rotate at a high speed through the reducer, so that the knife grain installed on the knife roll and the fixed knife form cutting, through a cutting, if the size of the material is less than the aperture of the screen, then the material is discharged from the mesh, otherwise the material is cut twice or multiple times in the knife box, until the size of the material can be discharged.

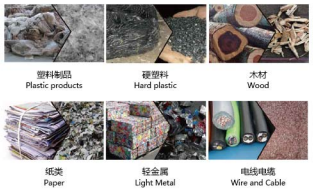


性能特点 FEATURES

1.Removable insert blades for easy maintenance.
2.Forced feeding by pusher to improve production efficiency.
3.The equipment has passed CE certification and complies with European safety standards.
4.Detachable and replaceable screen mesh, allowing adjustable discharge particle size at any time.
5.Vibration damping devices equipped on both motor and reducer to reduce impact force.
6.Integrally processed cutter roller ensures precise cutting clearance between movable blades and fixed blades.
7.Sealed bearing protection design achieves waterproof and dustproof performance, extending bearing service life.
8.Siemens PLC real-time monitors motor current; blades reverse automatically under overload to protect the motor.
9.Custom cutter shaft cooling system for low melting-point materials to prevent material scorching caused by overheating.



应用范围
APPLICATION SCOPE





技术参数
TECHNICAL PARAMETERS

Model	600	800	1200	1500
Main Motor Power (kW)	22	37/45	75	90
Hydraulic Motor Power (kW)	1.5	3.75	5.5	5.5
Rotor Length (mm)	600	800	1200	1500
Feed Opening Size (mm)	1220*1220	1420*1500	1420*1900	1620*2100
Overall Machine Dimensions	1750*1290*1750	2850*1780*2190	3020*2200*2150	3020*2200*2150

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Twin Shaft Small Shredder

双轴小型撕碎机



剪切原理
CUTTING PRINCIPLE

双轴破碎机通过剪切、撕裂和挤压作用减小物料尺寸。

The double-shaft shredder reduces the size of the material by cutting, tearing and squeezing.

刀具形状影响出料尺寸

Partical Size Depends on Knife Shape

动刀厚度决定出料宽度：动刀厚度越薄，物料的出料宽度越窄。

动刀刀尖距离决定出料长度：刀尖距离越小（即刀头数量越多）出料长度越短。

主剪切方式：动刀相邻刀面刃口形成剪切

副剪切方式：动刀刀尖与隔套圆柱面形成剪切。

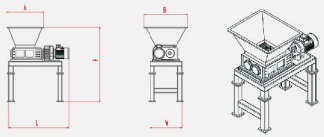


性能特点 FEATURES

This product series adopts single-motor drive, with two sets of cutter shafts running synchronously through gear speed distribution transmission.

The ACS series features a compact structure with powerful core performance. It is equipped with high-alloy wear-resistant cutters, 40Cr transmission shafts, and removable fixed blades to reduce customers' later maintenance costs. It also adopts a four-tier sealing structure and an integrated box body, as well as a Mitsubishi PLC automatic overload protection system.

The ACS series offers cost-effective pricing and is manufactured with a modular design, coupled with exquisite workmanship. Every production process, including heat treatment and hardness testing, complies with stringent quality requirements.



循环经济
CIRCULAR ECONOMY



成品和废料
Products and Wastes

撕碎块料
Shredded Particles



技术参数
TECHNICAL PARAMETERS

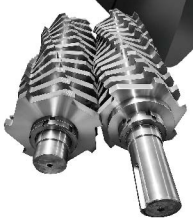
Model	S300	S400	S500	S600
Motor	3KW,1 Set	5.5KW,1 Set	7.5KW-4,1 Set	11kW,1 set
Reducer	JK77,1 Set	JK87,1 Set	JK97,1 Set	JK107,1 set
Blade Specification	φ180×10 mm	φ180×10 mm	φ200×20 mm	φ200×20 mm
Chamber Size	300×200 mm	400×200 mm	500×250 mm	600×400 mm
Overall Machine Dimensions	850×500×1300 mm	1120×600×1480 mm	1200×600×1550 mm	1550×660×1800 mm

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Twin Shaft Shredder

双轴撕碎机





优质合金刀具
Alloy Blade

主轴和刀具原材料采用优质合金钢材质，耐磨性高，韧性
适中，经高精度机床加工而成，机械性能显著提高，使用
寿命大幅延长；
刀具可多次堆焊修复，节约使用成本，延长使用周期。

The main shaft and cutting tool are made of high quality alloy steel with high wear resistance and moderate toughness.
It is processed by high-precision machine tool, the mechanical properties are significantly improved, and the service life is greatly extended.
The tool can be repaired by multiple surfacing welding, saving the use cost and extending the service life.









应用范围 APPLICATION SCOPE

广泛应用于城市环卫、工业回收、再生资源、危废处置、建筑 / 农林等领域。

It is widely used in urban sanitation, industrial recycling, renewable resources, hazardous waste disposal, construction/agriculture and forestry and other fields.







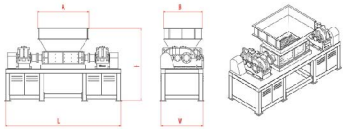




性能特点
FEATURES

双轴撕碎机，又称双轴剪切式撕碎机。利用两个相对旋转的刀具之间相互剪切、撕裂作用来实现破碎。具有低转速、高扭矩、高产能，动力强劲，稳定性高，剪切力大、撕碎效果好、噪音低等诸多特性，可将塑料桶、皮革边角料、废旧轮胎、废旧家电、过期药品、沙发床垫、废旧轮胎、农作物秸秆等较大物料一次剪切至较小的尺寸，可直接回收使用或根据需要作进一步细化处理。

Twin Shaft Shredder uses two relatively rotating cutting tools to shear and tear each other to achieve crushing. With low speed, high torque, high capacity, powerful, high stability, shear strength, tear effect is good, low noise characteristics, can be plastic, leather scrap, waste tires, waste household appliances, expired medicines, waste tyre and crop straw mattress, sofa, large materials such as a shear to the small size, It can be recycled directly or further refined as required.





动力总成部位 **Powertrain section**

技术参数
TECHNICAL PARAMETERS

Model	D300	D400	D500	D600
Motor	3KW,2 Sets	5.5KW,2 Sets	7.5KW,2 Sets	11kW,2 Sets
Reducer	JK77,2 Sets	JK87,2 Sets	JK97,2 Sets	JK107,2 Sets
Blade Specification	φ180×10 mm	φ180×10 mm	φ200×20 mm	φ200×20 mm
Chamber Size	300×200 mm	400×200 mm	500×250 mm	600×400 mm
Overall Machine Dimensions	1200×500×1300 mm	1400×500×1450 mm	1600×600×1550 mm	2000×660×1800 mm

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Heavy Duty Shredder

重型撕碎机

- 低转速 Low speed
- 高扭矩 High torque
- 大剪切力 Large shear force

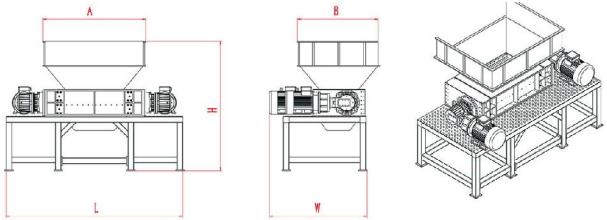


性能特点 FEATURES

专门为体积大、整体性强的大件固废处置而设计的重型撕碎机，能够有效减小各种废旧家具、旧沙发床垫、废弃电器、废弃办公用品等的尺寸，缩减空间占用，降低处置成本，提高运送效率，促进回收利用。

The heavy shredder specially designed for large solid waste disposal with large volume and strong integrity can effectively reduce the size of various waste furniture, old sofa mattresses, waste electrical appliances and waste office supplies, reduce space occupation, reduce disposal cost, improve transportation efficiency and promote recycling.

- 精 材质 Fine Material
- 细 加工 Fine Processing
- 稳 运行 Run Smoothly
- 高 效率 High Efficiency
- 便 操作 Easy Operation



技术参数 TECHNICAL PARAMETERS

Model	D800	D1000	D1200	D1400	D1600	D1800
Motor	30KW,2 Sets	37KW,2 Sets	55KW,2 Sets	75KW,2 Sets	90KW,2 Sets	110KW,2 Sets
Reducer	JZQ650,Sets	ZSY315,2 Sets	ZSY400,2 Sets	ZSY450,2 Sets	ZSY500,2 Sets	ZSY560,2 Sets
Blade Specification	φ400×40 mm	φ400×40 mm	φ400×50 mm	φ500×40 mm	φ600×60 mm	φ700×60 mm
Chamber Size	800×740 mm	1000×740 mm	1200×740 mm	1400×850 mm	1600×1100 mm	1800×1300 mm
Overall Machine Dimensions	3450×1650×2000 mm	4000×17000×2350 mm	4600×2000×2450 mm	4900×2000×2450 mm	5800×2400×2800 mm	6000×3410×3750 mm

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Solid Waste Whole Line

固废回收生产线

性能特点 FEATURES

固废回收生产线，全称固体废物回收资源化利用生产线，是一套由多台自动化设备串联组成的工业化处理系统，专门用于将各种固体废弃物（垃圾）通过破碎、分选、净化等物理工序，转化为可再次利用的再生原材料（如金属、塑料、骨料、纸浆等）。

A solid waste recycling production line, officially known as a solid waste recycling and resource utilization production line, is an industrial processing system consisting of multiple automated devices connected in series. It is specifically designed to transform various solid wastes (garbage) into reusable recycled raw materials (such as metals, plastics, aggregates, pulp, etc.) through physical processes such as crushing, sorting, and purification.

NO.1 架构稳定 STABLE ARCHITECTURE

NO.2 操作简单 THE OPERATION IS SIMPLE

NO.3 品质保障 QUALITY ASSURANCE

NO.4 支持定制 SUPPORT CUSTOMIZATION

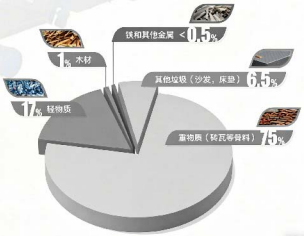


Construction waste is difficult to dispose of, but the market potential is huge.

装修垃圾难以处理 市场前景大

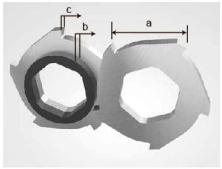
主要组成部分:
重物质/轻物质/木材/铁和其他金属
沙发床垫等

Main components: Heavy materials/Light materials/Wood/Iron and other metals
Sofas, mattresses, etc.



FACTORS AFFECTING THE OUTPUT SIZE

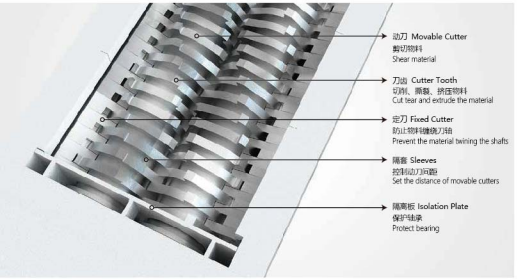
影响物料撕碎的因素





1、刀片上刀齿的距离（a）和数量
2、刀片齿间与另一轴间的距离（b）
3、刀片的厚度和形状（c）

1.Distance betwwen cutter tooth (a) on the cutter and quantity of the cutter tooth.
2.Distance betwwen the head of cutter tooth and another sleeve (b).
3.Thickness and shape of cutters (c).



产品特点
Product features

本产品应用所需的适宜热处理硬度：
HRC52-54
刀具的总重量取决于其尺寸。

Suitable heat treatment hardness for this product application: HRC52-54
Gross weight will depend on the the size of knife.



材质优势
Material advantages

这种钢材具有良好的淬透性和抗热裂性。它含碳量和钒含量高，耐磨性好，韧性相对较弱，耐热性好，高温下强度和硬度良好，具有优异的综合力学性能和良好的抗回火稳定性。

This steel has high hardenability and resistance to thermal cracking. It contains a high content of carbon and vanadium, good wear resistance, relatively weakened toughness, good heat resistance, good strength and hardness at higher temperatures, high wear resistance and toughness, excellent comprehensive mechanical properties and high anti-tempering stability.









刀箱、刀片具体细节局部图
Specific details of the local map

自动过载保护 带反转开关

AUTOMATIC OVERLOAD PROTECTION with reversing switch

发生过载时，左侧的切割和清扫盘与右侧的切割和清扫盘会根据哪一对轴承受的负载更大而独立反转。这样可以减轻轴上的负载，并重新定位待粉碎的物料，以实现最佳粉碎效果。

In the event of an overload, the cutting and clearing discs on the left and the cutting and clearing discs on the right reverse independently of each other, depending on which pair of shafts is subjected to the greater load. This removes the load from the shafts and repositions the material to be shredded for optimum shredding.



APPLICATIONS SHREDDER
应用领域



木头 Wood

如果你想以一种环保的方式从废物中产生能量，你就不能没有木材作为原材料。木材废料被切碎后，可以直接用于烧木炉产生热量，也可以用于生产压块。

If you want to generate energy from your waste in an environmentally friendly way, you can't do without wood as a raw material. The wood waste, which is shredded into chips, can be used for direct heat generation in wood burning oven or for the production of briquettes.





塑料 Plastics

"由于世界上有大量的塑料垃圾，可持续处理的概念尤为重要，而粉碎是其基础。"

"With the high volumes of plastic waste in the world, sustainable disposal concepts are particularly important, and shredding is the foundation for this."



废物和替代燃料 Waste and substitute fuel

强大的设计前后撕碎机毫不费力

粉碎工业和商业废物、城市废物以及大件和家庭废物。输出材料是生产高热量垃圾衍生燃料(RDF)的理想材料。

Robustly designed pre-and post-shredders effortlessly

shred industrial and commercial waste, municipal waste as well as bulky and household waste. The output material is ideal for producing high-calorific refuse-derived fuel (RDF).





纸张和纸板 Paper and cardboard

与金属和塑料一样，纸浆是回收利用的重要先驱，而且比以往任何时候都更加重要。在网上贸易蓬勃发展的时代，瓦楞纸板的可持续处理变得越来越重要。最常见的应用包括废纸、文件、纸卷、纸板、滤纸、标签、书籍和包装。

Like metals and plastics, pulp is a key pioneer in recycling, and more so than ever before. In an era of booming online commerce, the sustainable handling of corrugated cardboard is becoming increasingly important. The most common applications include waste paper, documents, paper rolls, cardboard, filter paper, labels, books, and packaging.

核心应用领域
Core application areas

撕碎机是固废资源化、减量化处理的核心设备，通过剪切、撕裂、挤压等方式将大体积物料破碎为小尺寸颗粒，广泛覆盖工业、环保、再生资源等多个行业，不同物料对应不同类型的撕碎机。

Shredders are core equipment for the resource recovery and volume reduction of solid waste. They break large-volume materials into small-sized particles through shearing, tearing, and extrusion, and are widely used in various industries such as industry, environmental protection, and recycling. Different types of shredders are used for different materials.



金属 Metal

在进一步处理大块的金属屑、铣削废料、锡箔、罐头和冲压废料之前，它们通常必须被粉碎成均匀的材料尺寸。

Before bulky metal chips, milling waste, foil, cans and punching waste can be processed further, they usually have to be shredded to a homogeneous material size.