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阿斯瑞特
回收处理设备制造商

SHREDDER

www.aceretech.com

EASY RECYCLING
VALUABLE PLASTICS



In the whole A to Z process of plastic recycling, shapes and sizes of waste plastics vary greatly. In order to facilitate the recycling operation, plastics are usually processed in a uniform size, that is "size reduction", which helps a lot to further processing and transportation.

Generally process of size reduction is divided into two steps: pre-shredding and fine grinding. Large, thick and bulk materials need to be pre-shredded before further fine grinding. Fine crushing as second step, for size homogenization, which is convenient for transportation and subsequent operations.

As a professional manufacturer of plastic recycling equipment, ACERETECH provides series of single-rotor shredders and crushers for various plastic materials to get uniform size. With modular design and targeted rotor structure, it realizes uniformity, continuity and reliability of shredding and crushing.

According to different applications such as in-house recycling, post-consumer recycling, and with different shredding strength and motor power, ACERETECH provides LS series of small shredders for in-house recycling, MS medium-sized shredders for small capacity, HS heavy-duty shredders for high-molecular polymers and high capacity, Ultra heavy duty shredders general-purpose for metal, wood, plastics, and PS series especially for long pipes recycling business.



Design principle in full view:

MANUFACTURE AS NEEDED

ACERETECH specializes in design, planning and manufacturing overall plan for recycling plastics. We provide optimized solutions for different application scenarios, so that shredder and crusher meet actual needs, and can be friendly applied to related operations, which is the original intention of our design and manufacture shredders crushers.



Design advantages

1 Tough welded steel machine body

ACERETECH shredder's body is made of special high strength welded steel to prevent shell cracking and excessive stress damage while running.

2 Stable powertrain

The drive motor and gear box are of European brands, with high efficiency of energy utilization for long-term stable running.

3 Modular design and precision manufacture

We adopt advanced European design principle, modular design, quick disassembly and assembly. CNC machining center ensures high matching accuracy of the rotor in shredding chamber.

4 Targeted customized structure of rotary and fixed knives

We provide a variety of rotary and fixed knife modules. You can start a new operation only by replacing rotary and fixed knife modules on the same machine

5 More wear-resistant

Rotary and fixed knives are made by European supplier OEM. To meet higher wear resistance we have fully spray-welded alloy rotor and tungsten carbide knives.

6 With hydraulic push rod

You can choose horizontal push rod or arc swing arm for different materials, to increase feeding efficiency and to ensure uniformity of shredding.

7 Easy maintenance

Fast replaceable square rotary knives and knife base. Open and close of screen and maintenance door are controlled hydraulically.

8 Visual PLC control

8. We adopt PLC control with intuitive and friendly operation interface, and can communicate with the recycling system to realize data sharing and linkage.

HS series—large and efficient single shaft shredder



■ Technical details

Item	Unit	HS1200	HS1600	HS2000
Rotor diameter	mm	560	560	560
Number of rotor knives	pcs	105/112+29	136/148+38	180/192+49
Number of stator knives	pcs	2*3	2*4/2*3	2*5
Hydraulic feeding ram	kw	5.5	5.5	7.5
Feed opening	mm	1200*1850	1570*2025	1960*1570
Standard screen	mm	40-100	40-100	40-100
Chamber size	mm	800*1000	800*1290	800*1860
Motor	Kw	90	110	75*2
Machine weight	kg	9000	11000	13000
Machine Measure	Length a	mm	2245	2245
	Width b	mm	2570	2960
	Height c	mm	2390	2390

■ 40%

more space in the cutting chamber

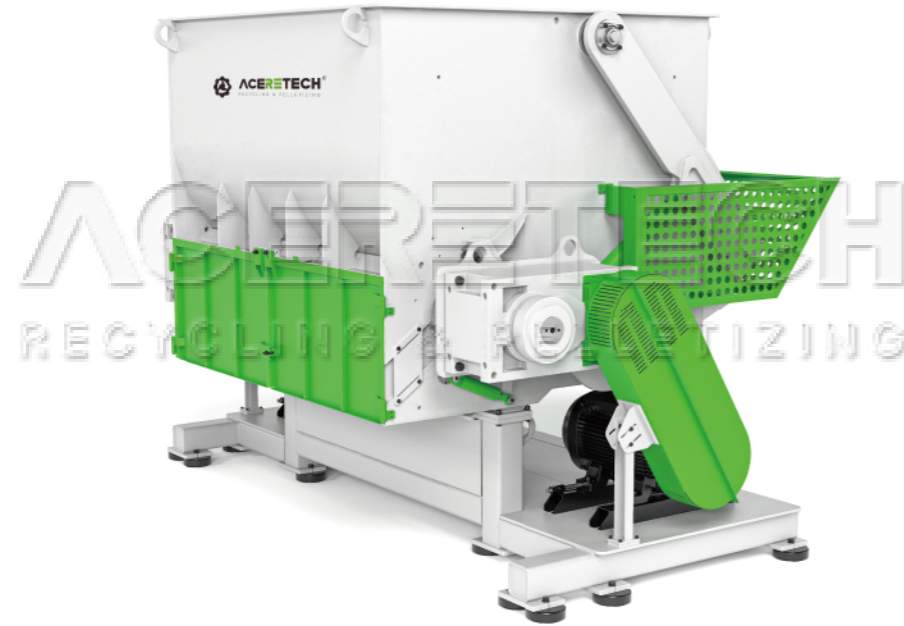
■ 85rpm

Ensure smooth operation with high torque

The HS series shredder is a single-shaft shredder. The newly designed pusher can increase the space of the shredder chamber by 40%. This new hydraulic pusher is matched with the large shredding space to make the pushing speed faster and shredding efficiency higher, can effectively avoid the occurrence of material blocking and the abrasion of internal guide rails. The rotor adopts a high-efficiency V-shaped design. The minimum width of the rotor is 1200mm, the maximum width is 2000mm, and the rotating diameter is 560mm. The gearbox is imported from Germany for strong power transmission. The low speed of 85rpm ensures smooth operation with high torque. The whole machine is welded by a special welding process, which can highly improve the stability of whole machine and effectively prevent material splashing. The HS series has all the advantages of other shredders, including a hydraulic workstation which is closely integrated with the shredder cavity, a special design of rotary blades and rotary blades plate, bearings, easier maintenance and intelligent control system.

The HS series shredder can meet most waste plastic recycling requirements, including plastic blocks, pipes, films, woven bags, as well as various electronic cable waste, ICB barrels, waste paper, waste wood and various organic material.

XS series—heavy single shaft shredder



■ Technical details

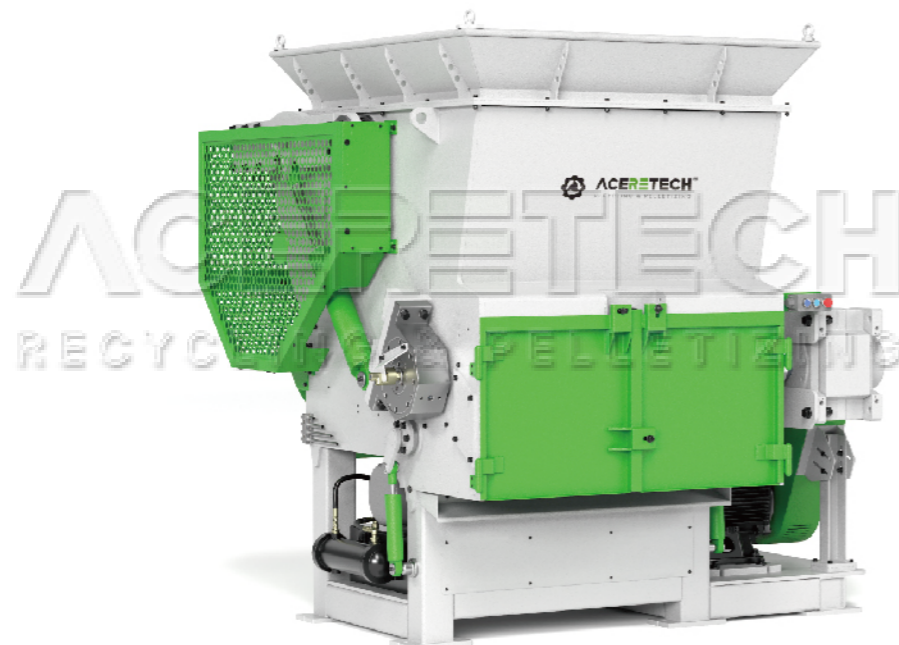
Item	Unit	XS1500	XS2000	XS3000
Feed opening	mm	2540*1620	2540*2020	2540*2820
Rotor diameter	mm	750	750	750
Rotor speed	rpm	52	52	52
Motor power	kw	2*75	2*90	2*132
Number of rotor knives	pcs	76	96	136
Number of stator knives	pcs	4	5	7
Hydraulic feeding ram	kw	11	11	11
Standard screen	mm	40-100	40-100	40-100
Chamber size	mm	1500*1490	1500*1900	1500*2700
Machine Measure	Length a	mm	3600	3600
	Width b	mm	3350	3350
	Height c	mm	3500	4000

■ **35-45%**
The crushing capacity is 35-45% higher than that of other brands

The XS series shredder is a heavy-duty single-shaft shredder. In order to avoid material blocking and reduce the wear of the internal guide rail effectively, a heavy-duty double-speed swing hydraulic pusher is specially designed. This model is welded by a special welding process, the mechanical structure is stronger, the machine crushing capacity is 35-45% higher than other series machines, and it is suitable for all kinds of waste plastic recycling operations. The rotor diameter is 750mm and rotor is driven by two German gearbox. The minimum width of the rotor is 1500mm and the maximum is 3000mm. The low speed of 45rpm can effectively ensure the smooth operation of the equipment under high torque conditions. The hydraulic workstation adopts a design that is closely integrated with the shredder cavity, which not only saves space, but also protects the hydraulic station, and is easy to replace and maintain. The XS series heavy-duty single-shaft shredder adopts an intelligent PLC control system. The rotor can be customized according to customer requirements to meet the characteristics of all kinds of materials. We also provide customers with water cooling system as an optional item.

The XS series of heavy-duty single-shaft shredders are suitable for recycling operations with high-volume requirements, especially some wide or thick waste cardboard, refrigerator shells, large household appliances shells, daily waste products, rubber products, automobile tires and etc.

MS series single-shaft shredder



■ 460mm

The diameter of V-shaped rotor

The MS series single-shaft shredder is developed for large recycling factories in order to avoid material blockage during shredding and reduce the wear of internal guide rails, whole complete series of machine are equipped with an adjustable hydraulic pusher. The rotor is V-shaped and smooth, the diameter of the rotor is 460mm, the minimum width of the rotor is 850mm, and the maximum is 2000mm. The maintenance cost of the standard V-shaped rotor, the equipped tools, the plate, the external bearings and hydraulic screen brackets are lower and more convenient. It saves a lot of space. For special process requirements, cooling system, rotor surface hardening treatment and other anti-wear devices are also optional.

■ 850mm-2000mm

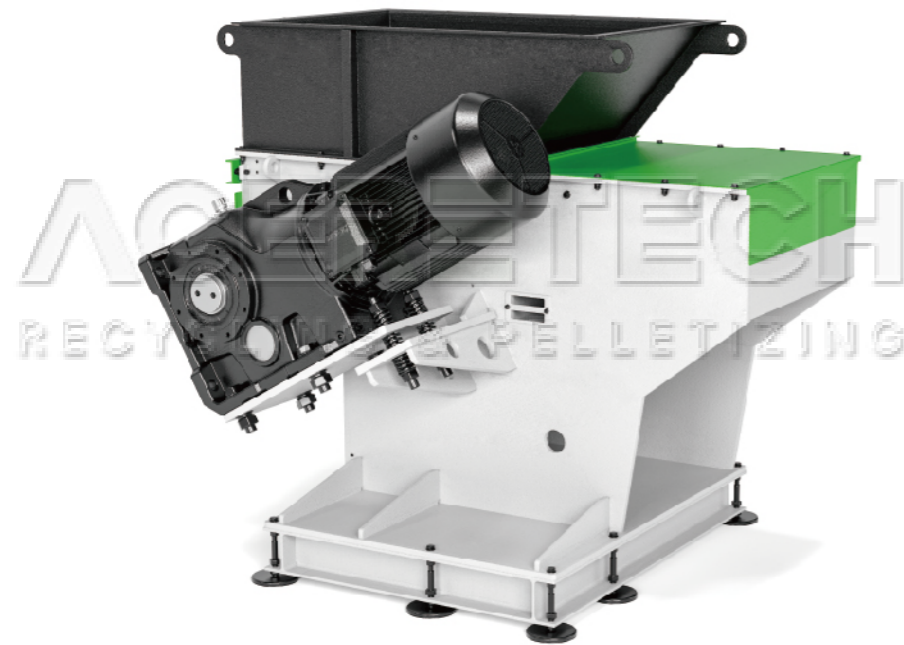
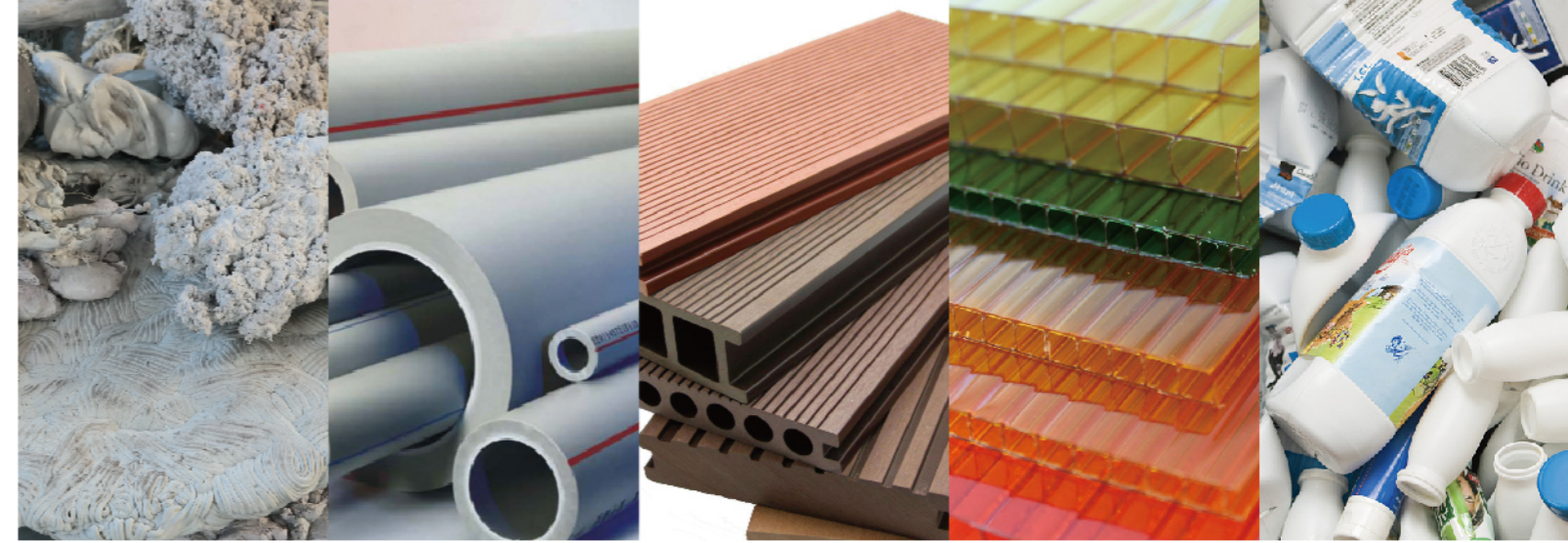
Rotor width

The MS series shredder can meet the requirements of various waste plastic recycling plants, such as all kinds of plastic blocks, plastic pallets, pipes, films, woven bags, as well as various electronic cable waste materials, ICB barrels, large home appliance shells, waste paper, waste wood and all kinds of organic materials. The size of the recycled material can be determined by selecting the appropriate screen according to the crushed material and the next processing requirements.

■ Technical details

Item	Unit	MS850	MS1200	MS1500	MS2000	
Feed opening	mm	840*1570	1120*1570	1400*1570	1960*1570	
Rotor diameter	mm	460	460	460	460	
Rotor speed	rpm	74	74	74	74	
Motor power	kw	37	55	75	2*55	
Number of rotor knives	pcs	60	81	102	144	
Number of stator knives	pcs	2*3	2*4	2*5	2*7	
Hydraulic feeding ram	kw	3.75	5.6	5.6	5.6	
Standard screen	mm	40~100	40~100	40~100	40~100	
Chamber size	mm	800*730	800*1000	800*1290	800*1860	
Machine Measure	Length a	mm	2085	2300	2300	2300
	Width b	mm	1940	2265	2590	3710
	Height c	mm	2435	2585	2585	2585

LS series small single shaft shredder



■ Technical details

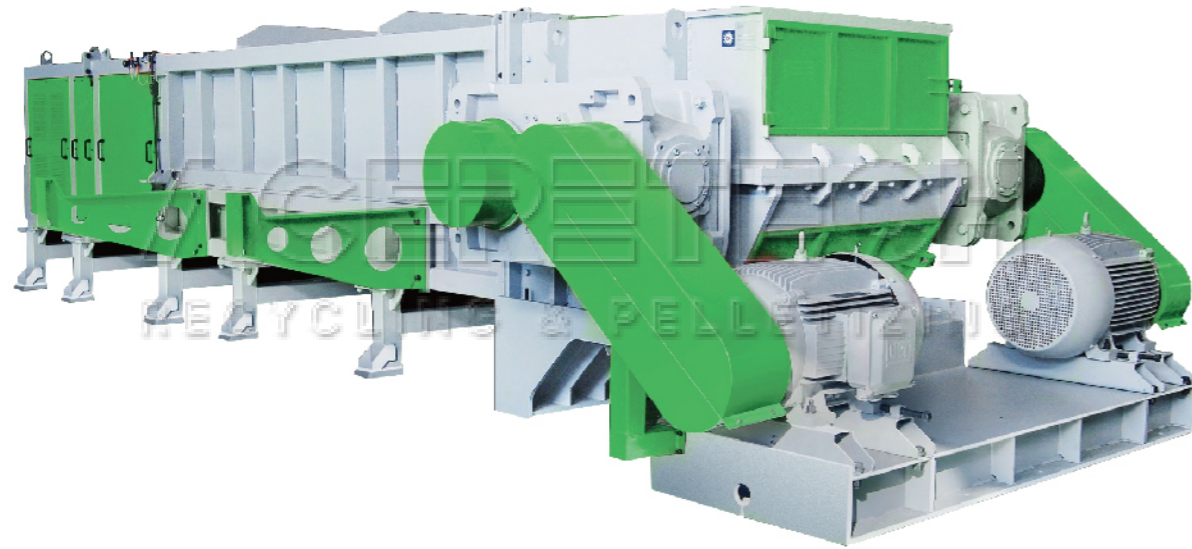
Item	Unit	LS600	LS800	
Feed opening	mm	580*1200	780*1200	
Rotor diameter	mm	250	250	
Rotor speed	rpm	61	61	
Number of stator knives	pcs	26	34	
Number of rotor knives	pcs	2*2	2*3	
Motor	kw	18.5	22	
Machine Measure	Length a	mm	1894	1800
	Width b	mm	1384	1500
	Height c	mm	580	1500

- **4** times
Used continuously

The LS series small single-shaft shredder is a new equipment customized for waste plastic products with small volume and wall thickness. It is equipped with an external bearing and an E-type smooth rotor. The rotor width is 600mm and 800mm with driving motor. The rotary knife is fixed on the rotor through the knife plate, which is easy to maintain. The rotary knife adopts a square knife with a groove in the middle. The 4 corners of the rotary knife can be used alternately. Each knife can be used 4 times continuously, and the service life is longer. The low speed of 60rpm combined with the compact design of the shredder makes it less noisy when it is working. The whole model adopts a plug-and-play intelligent control system, which can effectively ensure that the equipment when working in a ready state anytime and anywhere. Compared with other large shredders, the LS series occupies a small area, flexible to move, and more convenient to maintain.

The LS series shredder is specially designed for small and medium-sized blocks, such as: Small volume and thick-walled pipe; Waste hollows, sheets, plates from plastic production plants; Material from the extrusion line and etc.

PS series of Pipe Shredder

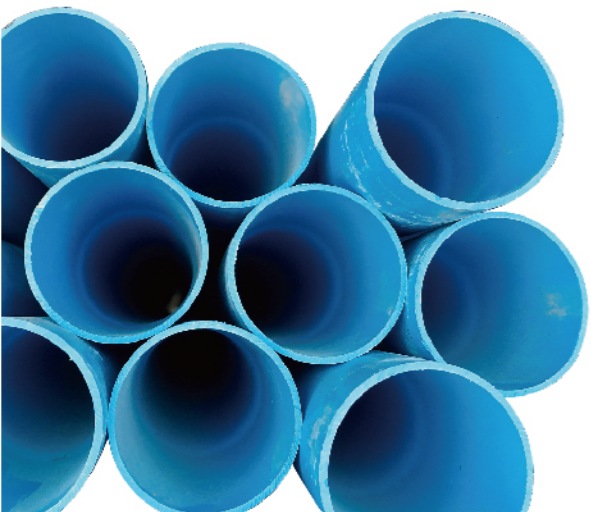


The PS series pipe shredder is suitable for material such as HDPE, PP, PVC, all kinds of small diameter pipes and profiles. According to the pipe diameter, the rotor diameter and width of the PS series shredder range from 800 to 1500mm. The standard designed hopper can meet the pipe shredding operation up to 3–6M. The whole machine adopts PLC control, low speed is supported by the hydraulic system, in order to ensure the safe and stable operation of the equipment. This shredder machine also suitable for other waste plastics, such as plastic blocks, plastic boxes, pallets and etc. It can also be used together with ACERETECH's crusher machine and pelletizing machine to increase the value of all the waste plastics.



■ Technical details

Item	单位	PS800	PS1000	PS1500	
Feed opening	mm	3860*700	6700*870	6700*1300	
Rotor diameter	mm	800	980	1430	
Rotor speed	rpm	40	36	23	
Motor power	kw	2*37	2*45	2*55	
Number of rotor knives	pcs	60	108	204	
Number of stator knives	pcs	3	4	5	
Hydraulic feeding ram	kw	11	15	15	
Machine weight	ton	11	20	25	
Chamber size	mm	3500*630	6000*800	6000*1200	
Machine Measure	Length a	mm	7700	11900	12200
	Length b	mm	1420	1540	1800
	Length c	mm	5060	8100	8100
	Height d	mm	3860	6700	6700
	Height e	mm	1730	1840	2320
	Height f	mm	2550	2970	3360
	Width g	mm	2570	2660	3150
	Width h	mm	975	1070	1070
	Width i	mm	590	590	590



Washing and pelletizing turn-key solution



Washing line

For the plastic recycling industry, ACERETECH can offer a series of well-developed recycling washing and pelletizing lines for the efficient recycling of all kinds of plastics material.

Recyclable material:

- PE/PP washing line
- LDPE film washing line
- PP woven/jumbo bags washing line
- PS/ABS washing line
- PET bottle washing line
- Other recyclable plastics