



**BestgrindTech**



**BestgrindTech**

**Single Shaft Shredder**



[www.enma.fr](http://www.enma.fr)

**Single Shaft Shredder**







CEO of ENMA FRANCE: Vincent Dome

Constantly create high quality products,  
continuous innovation, conserve natural habitats.

Insist on to creative high quality products by the  
cohesion from ENMA individual. As a leader to  
protect the environment around us.



## Welcome to the world of BestgrindTech!

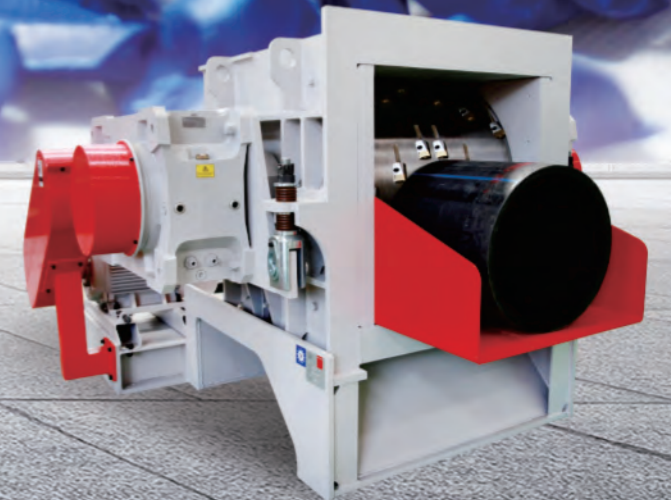
### From Present to Future

Since Foundation in France, ENMA has been focused on exploring materials for 20 years, including wood, plastics, paper, biology, household waste, business waste, industrial waste, And other special areas of crushing and recycling technologies. We work to develop sustainable environmental technologies to maximize recycling and reproduction of these materials or wastes. We define our products as shredding, granulating, transporting, screening, Any ENMA customer can find a satisfactory recycling solution from a single machine or complex system produced by ENMA or from the entire plant recycling system. With the development of the company and the expansion of the market, European companies have been unable to meet the needs of production. In 2008, ENMA of France moved factory to Shanghai, China, and set up ENMA Granulator(China) Co., Ltd. And in China to continue to create sustainable development of environmental technology this dream. ENMA has kept its "BestgrindTech" promise, which means we will do our best to be more reliable than any other supplier. This applies to all ENMA products and services, and for our customers it means choosing ENMA products is the best decision they can make.





Provide you  
plastic granulating technology with  
quality of France.







## ELS Single Shaft Light Shredder

### Advantage of ELS Single Shaft Shredder

- Affordable solution for small lumps, economic and practical
- Easy to move and place
- Small footprint
- Simple upgrade for existing granulation system
- Tangential in-feed avoids the need for a hydraulic pusher
- Low power consumption

### General Description

ELS series shredder is single shaft shredder with a tangential in-feed to eliminate the need for a hydraulic feeding system. The space saving and maneuverable design combined with the plug and play controls make this machine very flexible and ready to go in no time. Comparing with EMS series, it is equipped with outboard bearing, 250 mm diameter flat E rotors with 600 or 800 mm width driven by an oversized geared motor. Utilizing the proven ENMA knife holder and knife design. The user friendly design makes cleaning and maintenance work a breeze. The low speed of 60 rpm combined with the compact design of ELS shredder makes it possible to shred lumps at a relatively low noise level. The machines can be fed manually or by conveyor, material discharge can be done via conveyor or into a drop box.

### Applications

ELS shredder has been designed for in house recycling of small lumps and purges from injection and blow molding processes. The typical input materials are small and medium sized parts such as lumps. The material can be shred to reduce the volume or processed further in a granulator to be reintroduced into the production process immediately. The machine also can be used to destroy sensitive products or to recycle small batches of low volume products to avoid contamination of the main product line.



- ◆ Fig.1 / V type knife design
- ◆ Fig.2 / Direct connection driving
- ◆ Fig.3 / Adjustable hydraulic system
- ◆ Fig.4 / Small sized lumps solution
- ◆ Fig.5 / Screw outputting device is available
- ◆ Fig.6 / Even and ordered outputting

	ELS 600	ELS800
Machine weight in kg approx	1150	1500
Machine Measure in mm approx	1500x1000x1200	1800x1500x1500
Capacity appro	300-500	500-800
Feed opening in mm approx	550x550	830x550
Standard motor in kW	18.5	22
Number of rotor knives	28	40
Number of stator knives	2x2	2x2
Rotor diameter in mm	260	260





## EMS Medium Sized Shredder

### Advantage of EMS Single Shaft Shredder

- Low speed, high torque gear driven
- Easily in-feed with inclined pushers
- Adjustment speed hydraulic comes standard
- Powerful hydraulic inclined type pusher
- Bolted in drive shafts, easy replacement
- Open board for easy replacement of cutting blade
- Multiple rotor designs and materials

### General Description

EMS shredder is single shaft shredder with a powerful two speed swing ram design eliminating the risk of blocking and wearing out of internal guide rails. The machine is very versatile and can be used for shredding of all kinds of input materials and is well suit for different industries. The 450mm diameter rotors ranging from 1000mm to 2000 mm width are driven by one or two oversized gearboxes. The hydraulic power pack is well integrated into the machine housing to save space and protect it from damage but still easy to access or remove for maintenance. The standard "V" rotor features the proven ENMA knife and knife holder design, as well as outboard bearings and a hydraulic operated screen cradle are highly appreciated by customer. The machines can be tailored to various applications with cooling or hard facing and other wear options.

### Applications

EMS shredder has been designed for a wide array of applications and industries like in house and general recycling, electronic waste and post consumer waste handling. Input materials can be all kinds of plastics like lumps, pipes, film, woven bags; electronic waste like cables and ICs, paper, wood and other organic materials. Depending on input material and the following process the shred material as defined by the used screen size can be directly used or go into the next step of size reduction for example in GE series granulator.



- ◆ Fig 1 / Inclined pushing system
- ◆ Fig 2 / Design of open type body makes it easier to replace blade and clean crushing chamber.
- ◆ Fig 3 / High torque Box-type Reducer Driven
- ◆ Fig 4 / Integral screen.
- ◆ Fig 5 / High efficiency rotor design

	EMS1000	EMS 1300	EMS 1600	EMS 2000
Machine weight in kg approx	4800	5500	6500	8500
Machine Measure in mm approx	3500x1500x1900	3500x1800x1900	3500x2100x1900	3500x2700x1980
Capacity approx	500-800	600-900	1000-1500	1500-2000
Feed opening in mm approx	1340x1000	1570x1300	1570x1600	1570x1900
Standard motor in kW	45	55	75	2x55
Number of rotor knives	69	93	117	141
Number of stator knives	2x3	2x4	2x5	2x6
Rotor diameter in mm	400	400	400	400
Rotor speed in rpm	74	74	74	74
Motor of hydraulic device in kW	3.75	3.75	5.5	5.5
Screen sizes in mm	> 40 mm	> 40 mm	> 40 mm	> 40 mm





## EBS Big Sized Shredder

### Advantage of EBS Single Shaft Shredder

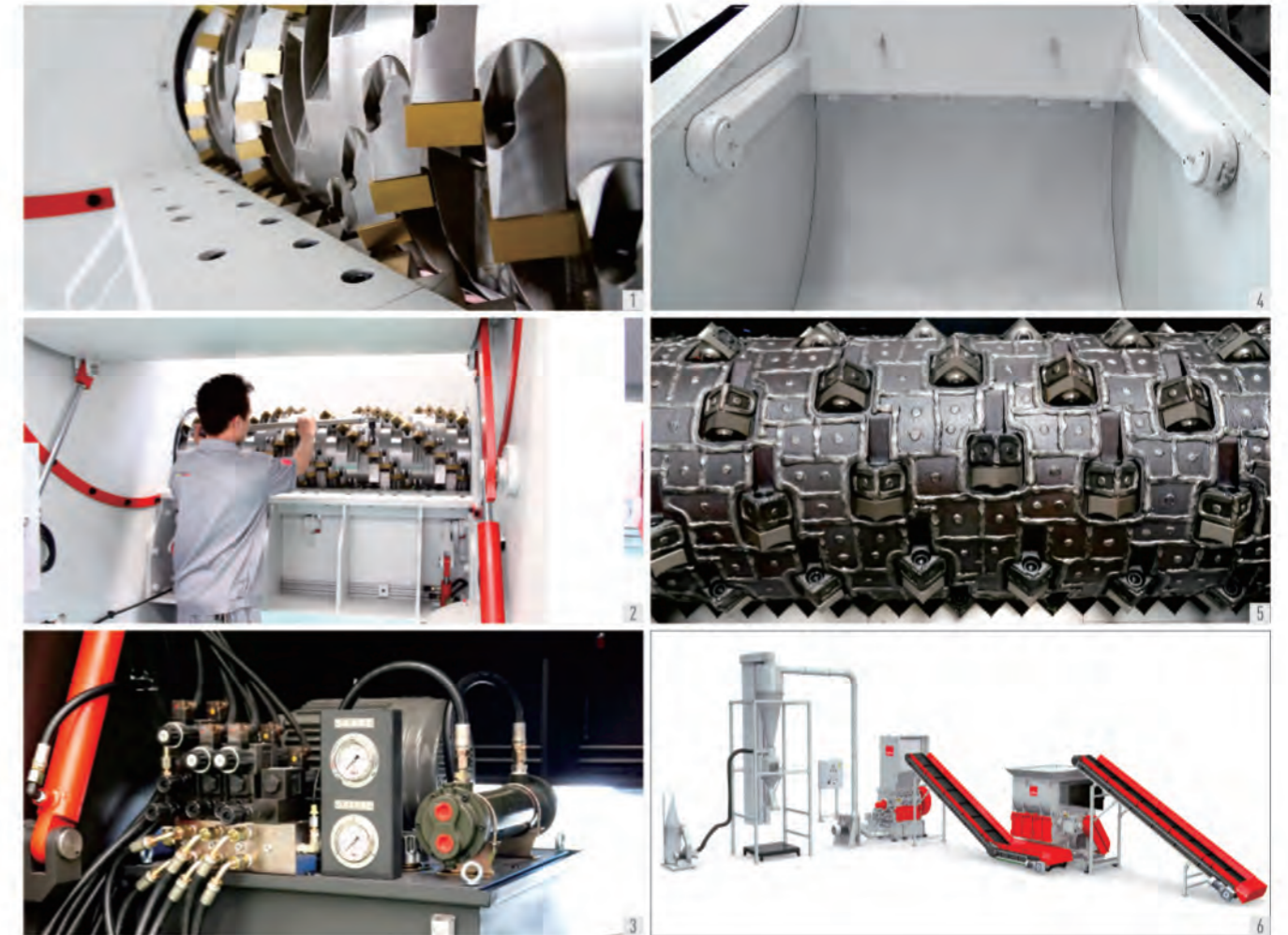
- 35% more internal volume compared to the first generation of EBS series
- Smaller footprint compared to traditional shredder with horizontal pusher
- Opening housing body makes changing and cleaning blade easily
- Choosing different size blades upon different materials
- Internal hydraulic pusher
- Variable faster pusher movement
- Multiple rotor and blade section

### General Description

EBS series shredder is single shaft shredder with a large internal volume. The redesigned hydraulic pusher system creates about 35% more space in the cutting chamber while increasing the power and speed of the ram itself. The shredder is equipped with diameter 600mm ENMA effective "V" type rotor with width ranging from 1000mm to 2500mm. The rotor is driven via an oversized gearbox. The completely closed welded steel housing increases the stability and avoids material spillage. EBS inherits all of the advantages of the ENMA knife and knife holder design as well as standard features such as outboard bearings, hydraulic screen cradle, it's easy maintain ability and advanced controls.

### Applications

EBS series shredder is designed to meet the requirements of waste recycling in various industries, including general waste recycling, electronic waste recycling and domestic waste recycling, etc. There are a wide variety of recyclable materials, such as various plastic products, including bulk materials, etc. Pipes, films, woven bags, and all kinds of electronic cable scrap, ICB buckets, waste paper, used wood and various organic materials. According to the crushing materials and the next step of processing needs to choose the appropriate size of sieve mesh to determine the size of the recycled material. Some materials can be directly recycled after shredding, others can be transported to GH series granulator and other equipment for further refinement.



- ◆ Fig.1 / High efficiency universal rotor
- ◆ Fig.2 / Convenient knife exchanging design
- ◆ Fig.3 / Adjustable hydraulic system
- ◆ Fig.4 / Adjustable feeding system
- ◆ Fig.5 / Wearable rotor
- ◆ Fig.6 / Complete design

	EBS 1200	EBS 1600	EBS 2000	EBS 2500
Machine weight in kg approx	9000	11000	13000	16000
Machine Measure in mm approx	2245x2570x2390	2245x2960x2390	2245x3300x2390	2245x3795x2390
Capacity approx	800-1000	1000-1500	1200-1800	1500-2000
Feed opening in mm approx	1200X1850	1600X1850	2000X1850	2500X1850
Standard motor in kW	90	110	2x75	2x90
Number of rotor knives	105/112+29	140/152+39	180/192+49	225/242+60
Number of stator knives	2x3	2x4/2x3	2x5	2x6
Rotor diameter in mm	560	560	560	560
Rotor speed in rpm	85	85	85	85
Motor of hydraulic device in kW	5.5	5.5	7.5	7.5
Screen sizes in mm	> 40 mm	> 40 mm	> 40 mm	> 40 mm





## EPS Shredder for Large Caliber Pipe

### Advantage of EPS Pipe Shredder

- Handle large diameter pipes up to 1200mm without pre-cutting
- Low power consumption
- Bundles of smaller pipes and profiles be fed
- Automation operation, high security
- High output
- Big diameter rotor (Max. to 1500mm)

### General Description

EPS shredder is the global first and registered single shaft shredder able to handle large diameter pipes up to 1200mm without the need for pre-cutting. Since their introduction they became the super star standard for pipe shredding and are used by the leading pipe manufacturers all over the world. More than 150 installations demonstrate our technological leadership in this industry and continuing innovation based on market demands and customer feedback. Depending on the pipe diameter the EPS rotor diameter and width range from 800mm to 1500mm. The standard hopper fits all pipe lengths of up to 3-6m. The combination of advanced controls, low rotor speed and smooth hydraulics create a reliable and easy to use system.

### Applications

The main focus of the EPS shredder is the shredding of large diameter pipes or bundles of smaller pipes and profiles made from HDPE, PP and all kinds of PVC. Furthermore, the machine can be used for recycling of other plastic parts, such as large lumps, stacked wheelie bins and pallets. In combination with other ENMA size reduction equipment such as granulator and pulverizer, we are able to provide a complete turn key recycling solution.



- ◆ Fig.1 / Complete pipe recycling system
- ◆ Fig.2 / Size reduction of large caliber pipe
- ◆ Fig.3 / Dual-driving
- ◆ Fig.4 /Hydraulic automatic security plate
- ◆ Complete pipe recycling system
- ◆ Hydraulic opening safety door system
- ◆ Adjustable hydraulic propulsion system

	EPS800	EPS1000	EPS1500
Machine weight in kg approx	11000	16000	26000
Machine Measure in mm approx	10800x2500x2500	11890x2900x2600	12180x3270x3060
Feed opening in mm approx	3860x850	6420 x 980	6420 x 1300
Standard motor in kW	2x30	2 x 45	2 x 55
Number of rotor knives	57	96	204
Number of stator knives	4x1	5x1	7x1
Rotor diameter in mm	850	980	1430
Rotor speed in rpm	40	33	23
Motor of hydraulic device in kW	11	15	15



There is enough spares in stock at ENMA  
 With appropriate workers to deliver by air, by sea or by express, etc.  
 We suggest clients to have quantities of delicate spares in stock at factory,  
 Such as blade, screen and so on for exchanging in time  
 And guarantee the machine running normally.



## ENMA Product list

 BestgrindTech Granulator	 BestgrindTech Shredder	 BestgrindTech Two Shaft Shredder	 BestgrindTech Four Shaft Shredder
 BestgrindTech Pulverizer	 BestgrindTech ENMA TOOLS ENMA TOOLS ENMA TOOLS	 BestgrindTech Original Spare Part	 BestgrindTech

ENMA Granulator(China)Co.,Ltd  
 Add:No.121,5888#,Baoqian Road  
 Jiading District,Shanghai,China  
 Tel:+86-21-69932999  
 Fax:+86-21-59589222  
 www.enma.cn.com  
 www.enma.fr

**Not all products listed in this product manual are supplied to all countries and territories.**

This product manual may refer to parts that are not standard equipment but are purchased only as optional equipment. In order to see the parts of the machine more clearly, the protective housing part on the picture has been opened or removed, and the dimensions are retained, design and equipment modification rights. All the information in the manual is pure information and is not legally binding. Our quotation or order is an authoritative document.