



BestgrindTech

Four Shaft Shredder



www.enma.fr



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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.

ENMA-EFS Four Shaft Shredder solution.
Perfection is not only the pursuit,
It is the possibility as well.





Our market, Our Expertise, Your Success.



Documents & Paper -safe & Efficient

EFS series of four-shaft shredder is specially developed for efficiently destroying confidential documents from banks, offices and government to keep them from being disclosed. ENMA will find solutions for you to size-reducing CDs, engineering drawings, DVDs, data carriers, disks, USB disk and documents.

MATERIALS TO BE HANDLED

- Documents & paper
- Blueprints
- Cardboards
- Disposable industrial paper
- Bank check
- CDs



ENMA injects new life into plastics

Developing shredders and granulators successfully, ENMA can find different solutions for you on rotors and knives in the field of recycling purging materials, off-cuts, PET bottles and PE/PP films. V-shape alignment on knives installation ensures higher output, lower energy consumption with similar final granules.

MATERIALS TO BE HANDLED

- Mixed plastics
- Discarded films
- PET bottles
- Plastic pipes
- Defectives or imperfections
- Containers
- Fibers



Woods – potential resource in the future

Being one of the recycling resources, woods are becoming more and more important in the field of reprocessing. They can be treated through our shredders or granulators for remaking composite boards, wooden products, furniture and so on.

MATERIALS TO BE HANDLED

- Tree roots
- Stumps
- Wooden furniture
- Fiber boards
- Barks
- Logs
- Bamboos
- Pallets



Advanced household electrical appliances recycling system

ENMA adopted two-shaft, four-shaft shredding technology for household electrical appliances. Blade made of high strength alloy steel, it has the feature of high wear resistance and strength. Four shaft operate differently in speed, with the function of tearing extrusion and occlusion. Electrical parts using Siemens electrical components programming control, with features of auto - overload protection. It is suitable for shredding materials of big volume and difficult to crush. And it has the advantage of discharging uniformity and size controllable. For example: it is used for shredding car shell, gear, plastic drums, plastic boxes, plastic bottle, metal cans, metal drums, woven bags, refrigerators, circuit board and cardboard boxes, etc. with high efficiency, low speed, high torque and low noise.

MATERIALS TO BE HANDLED

- Appliance
- Gear
- Melt drums
- Auto part



High quality tire recycling equipment

ENMA successful develop the waste tire recycling equipment, granulating, grinding, the production of waste tire fine rubber powder, wire, fiber products, and waste tire processing equipment production line Assembly. Recovery and utilization of waste tire 100%

Particularly crushed all steel radial tire into 40-120 Purpose of fine rubber powder, the wire and nylon fibers in tires of all automated separation and recycling.

Production line structure is compact, footprint small, production process is simple.

- Equipment energy consumption low, invest in high cost performance
- Very high degree of automation and less production line operators.



EFS Four Shaft Shredder

General Description

ENMA-EFS series four shaft shredder has been tested and recognized by the market. It also plays a very good cutting effect and high reliability for the materials that are difficult to deal with. ENMA-EFS four shaft shredder is widely used. Processing uniaxial and biaxial non-cutting materials, its strong design and strong cutting technology make it more powerful in recycling industry.

EFS is especially flexible in use due to modular design and various combination of cutting units. In addition, it can adjust speed, torque, seals, cutting devices and increasing the length of the equipment. You can do exactly what you want, which ensures maximum flexibility and reliability.

EFS operates at a low speed system. If a special foreign body is added, the machine stops immediately if the cutting disk detects the foreign body. This prevents damage to the cutting device. In addition, the drive allows frequent commutations. This is especially beneficial for shredding problematic materials. Integrated screen designs can be quickly replaced, and four shaft shredder can be equipped with additional separation and delivery systems.

Applications

Alternative fuel/Fuel derives from rubbish – post consumer waste handling, industrial waste, recycled wood, paper, tyre, plastics, carpet, fiber, etc.

Material sorting & recycling – e-waste, plastics, aluminum material, drinking bottle, iron/steel barrel, car, wood, etc.

Product/files crushed for security – file document, PC, unqualified & overdue products, recycled medicine, e-waste, plastics part, etc.

General recycling – treating medical waste, radioactivity material, organic waste, paper fiber, post consumer waste, industrial waste, etc.



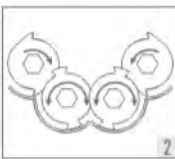
- ◆ Fig.1 / Various types of knife array
- ◆ Fig.2 / Wearable knife
- ◆ Fig.3 / Removable screen
- ◆ Fig.4 / Integral type reducer driven
- ◆ Fig.5 / Complete shredder project
- ◆ Fig.6 / Integral design

	EFS1000	EFS1200	EFS1400	EFS1600	EFS2000
Cutting chamber in mm	1000 x 785	1200x1025	1400x1315	1600x1600	2000x1900
Hopper opening in mm	1430 x 1290	1825x1700	2055x2010	2190x2210	2800x2745
Power Range in KW	37-45	55-75	90-132	160-300	250-450
Cutter thickness in mm	30-150	30-150	30-150	40-200	50-200



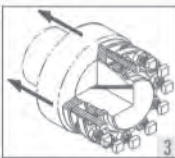
HOPPERS

Application-specific feed hoppers available, including force feeding ram assist.



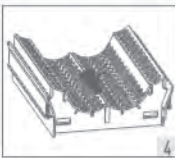
SELF-CLEANING DESIGN

The lower and upper shafts sweep each other as well as the screen, reducing material build-up.



TOOL INSTALLATION

ENMA's "Advanced Cutter Locking System" maintains a tight cutter stack, minimizing maintenance requirements and prolonging cutter life.



REMOVABLE SCREEN

The "slide-out" screen can be easily removed and replaced, allowing users to change output sizes.



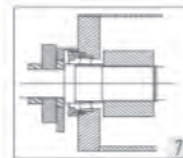
LOWER CUTTERS

Bi-directional cutters process material when moving in either direction, eliminating "lost production" during shaft reversals.



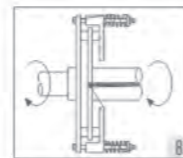
UPPER CUTTERS

These pierce-point cutters facilitate recirculation of shredded material and increase the number of cuts per shaft revolution. More cutting action=more throughput.



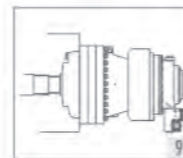
SEAL & BEARING PROTECTION

Proprietary "multiple-barrier" system, including a mix of conventional and labyrinth seals to prevent contamination.



SAFETY DEVICE

ENMA's "Severe Shock Protection" system protects the drive system from damage during an event that instantaneously stops shredder shafts. (electric models only)



MULTIPLE DRIVE CONFIGURATIONS

Electric, hydraulic and Box type options available to suit specific needs.

ENMA Product list



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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.