

enma
GRANULATOR

BestgrindTech

Two 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-ETS Two Shaft Shredder - Make you profit from use.
High output requirements;
High stable running;
Low maintenance cost operation.**





**Our market,
Our Expertise,
Your Success.**



Documents & Paper -safe & Efficient

ETS series of two-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.



ETS Two Shaft Shredder

Advantage

- High output

General Description

Large output and continuously shredded two shaft cutting world, the key to the success of ENMA two shaft shredder lies in the design and cutting technology of rotor tools. For many years, it has been devoted to the research and innovation of perfect coarse shredding.

The material is touched by the rotor and cutter of ETS, which unceremoniously pulls the material into the cutting chamber of the machine, then shredding it between the blades on two opposite shafts. Electronic garbage or large objects-even hard to shred, mass materials can't resist these two powerful knife shafts, fibers, plastics, elastomers and rubber materials to ensure that they are cut perfectly. The running mode of slow speed equipment is ETS two shaft shredder also has quiet and high output dust-free cutting effect, but also can be equipped with ENMA EFS four-shaft shredder to further refine your material.

Applications

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

Special recycling – battery, toxicant chemical waste, general infectant material, etc.

Metal granulating – aluminum, iron material, nonferrous metal, metal edge, steel barrel, etc.

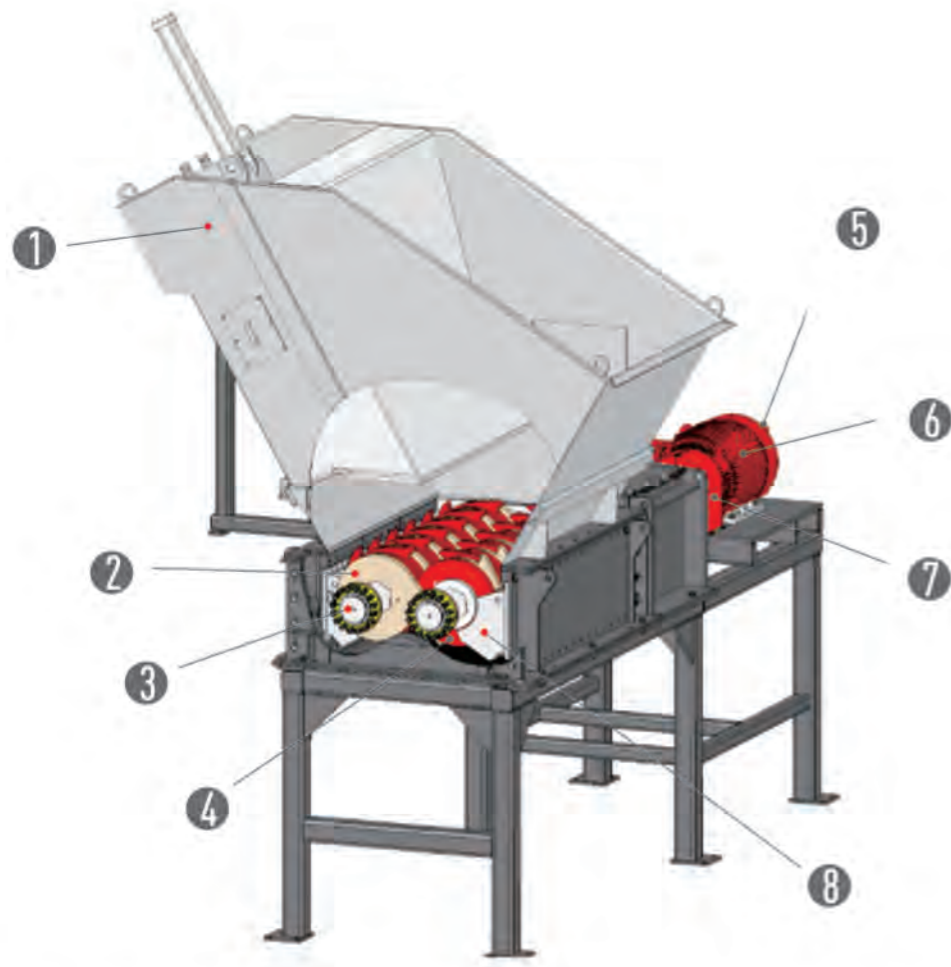
Tire recycling – car tire, truck tire, vehicle tire, etc.

Plastic recycling – plastic lumps, plastic roller, plastic plate, plastic film unqualified plastic products, etc.

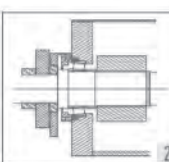


- ◆ Fig.1 / Box type dual-driving
- ◆ Fig.2 / Force feeding system
- ◆ Fig.3 / Disassembly knife
- ◆ Fig.4/5 / Planetary reducer driven
- ◆ Fig.6 / Integral type knife
- ◆ Fig.7 / Removable knife
- ◆ Fig.8 / Heavy duty rotor

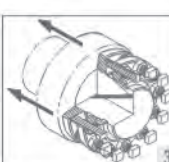
	ETS1200	ETS1400	ETS1600
Cutting chamber in mm	1200X1500	1400X1900	1600X1900
Hopper opening in mm	1650X220	1755X2440	2400X3660
Power range in KW	45-55	55-75	75-110
Cutter thickness in mm	40-60	40-60	40-60



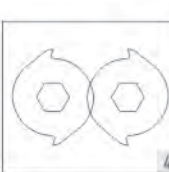
HOPPERS
Application-specific feed hoppers available, including force feeding ram assist.



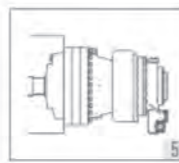
SEAL&BEARING PROTECTION
Proprietary "multiple-barrier" system, including a mix of conventional and labyrinth seals to prevent contamination.



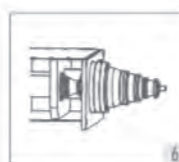
CUTTER
ENMA's "Advanced Cutter Locking System" maintains a tight cutter stack, minimizing maintenance requirements and prolonging cutter life.



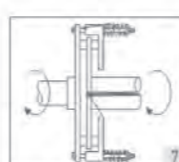
CUTTER CONFIGURATION
Application-specific cutter configurations.



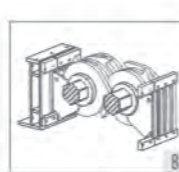
DRIVE CONFIGURATIONS
Electric, hydraulic and box type options available to suit specific needs.



DIRECT DRIVE
Planetary gear boxes are splined directly into the drive shaft, amplifying torque and allowing greater flexibility of applications.



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)



CLEANING FINGERS
Placed between each cutter and fitting closely around each spacer, the cleaning fingers keep shredded material from clogging the cutting chamber.

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.