

Single Shaft Shredder



Quality Shredders

MSA



Single Shaft Shredder

Enerpat Jiangsu Environmental Protection Industry Co., Ltd.

Add: Changqing Town, Rugao City, Jiangsu Province, China

Email: dacy@enerpat.com

Tel: +8613524083356



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UK Enerpat F-Series Single Shaft Shredders are small to medium size reduction machines suitable for processing a wide range of materials to a uniform particle size. The products can often be sold as is, or be sent for further processing through additional equipment. Through outputs typically range between 300kg/hr – 5,000kg/hr+ depending on the model.

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I. Material type and application as below:

Plastic Lumps 	Plastic Pipes 	PE Film 
Waste Cables 	Light Metals 	Aluminum Cans 
Waste Paper 	Waste Woods 	PET Bottles 
Wood Pallet 	Aluminum Swarf 	PCB Board 

- ✓ Plastics –Moulding, Purging/Lump, Profiles, Films etc.
- ✓ Timber/Wood – Pallets, Joiners Waste, Green Waste etc.
- ✓ Paper & Cardboard – Confidential Documents, Production Waste, Packaging Materials etc.

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- ✓ Copper Cable – Household, Telecoms and Industrial Cables including S.W.A
- ✓ Aluminum – Used Beverage Cans (UBC's), Swarf, Cables etc.
- ✓ Textiles – Carpet (Rolls & Tiles), Garments etc.
- ✓ Security Destruction – Counterfeit Items, Faulty Goods, Out of Date Stock etc.
- ✓ Foam – Production Waste etc

II. Standard Features



Rotor

- ✧ Chevron rotor design
- ✧ Rotor knives manufactured from special heat treated DC53 steel. They can be rotated and used on four edges before replacement
- ✧ Long life fixed blades that can be adjusted to maintain cutter clearance
- ✧ Wear resistant coating. Optional for applications involving abrasive material such as fibre glass

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Screen Basket

- ✧ Quick change screens for accurate particle size control (sizes 12-100mm)
- ✧ Safety limit switch fitted to screen access door to prevent machine operation whilst access door is open
- ✧ Cylinders access door opener mounted on F800-F1500 series for easy opening and access
- ✧ Star screen is available as an option for thin and/or flexible material such as film

Bearings

- ✧ Oversized, high quality spherical shaft bearings are isolated from the cutting chamber to prevent product migrations through the grease seals
- ✧ Bearing housing integral machined to ensure the longevity of the bearings
- ✧ Rotor water cooling. Optional water cooling through the bearing housing to the rotor

Ram

- ✧ Segmented shredding chamber floor with brass guides
- ✧ Machined, one-piece segmented floor
- ✧ Advanced adjustable sealing system for the pushing unit
- ✧ Fines discharge chute to collect the fines during shredding and to protect the hydraulic power pack

Drives

- ✧ Electric drive motors configured for Star/Delta starting. Fluid coupling mounted on F1200 and F1500
- ✧ Heavy duty reduction gearbox mounted directed onto the rotor shaft
- ✧ Shock absorbing gearbox mounting arrangement to reduce stress on drive components

Hydraulic System

- ✧ Twin speed hydraulics, faster speed for backwards to maximise the shredding throughput
- ✧ Integrated oil/air cooler to maintain temperature for continuous operation
- ✧ Optional cover insulator for applications that may eject hazard particles such as wood shredding.

Control Panel

- ✧ Standalone electrical control panel with Siemens PLC control system and

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- Schneider electrical components.
- ✧ Manual and automatic controls for rotor direction and hydraulic force feeding device
- ✧ Intelligent programming whereby the motor automatically reverses on overload and stops when the machine is idle

III. Technical Information

Model No.	MSA-F1500
Hopper Size	1300x1500mm
Discharge Height	565mm
Ram stroke	815mm
Rotating Dia.	Φ 400mm
Rotor Operation Length	1500mm
Rotor Speed	80rpm
Screen	Φ 20mm
Movable knife	70pcs
Fixed Knife	6pcs
Driven Power	75kw
Hydraulic Power	5.5kw
Hopper Volume	2430L
Machine Size	2800x2800x2100mm
Machine Weight	Approx. 6680kgs

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IV. Machine Details



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V. Enerpat Shredders Features

Power System	Motor+Gear Box
Shred Way	Shear shredder, which can shred flexible and hard materials, low noise, low dust
Blade Material	Imported NiCrMo high alloy steel, strong impact resistance is not easy to broken
Blade Repair	Repeatable surfacing repair tool (blade thickness greater than 30mm)
Blade installation method	The six-way design of the inner hole and the spindle surface of the tool ensures a good torque transmission and quick tool disassembly.
Shafts	High-strength spindle 42CrMoV tempered manufacturing, precision grinding
Sealing method	Four-bearing seal protection design, effective dustproof and waterproof, prolong the service life of the bearing, and can work normally under high dust and open air environment
Shock absorption	Shockproof pad shock absorption
control box	Schneider electrical components, stable control performance
Overload protection	Schneider PLC monitors the entire operation process of the equipment in real time. When the equipment is overloaded, the equipment automatically stops and reverses the unloading. After the unloading is completed, the equipment is automatically started and the equipment is normally broken.
Standard	CE
Structure	Modular assembly of castings for easy dis assembly and maintenance

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VI. Ending Products photos for reference



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