




Customer Projects




Solid Waste: Cable Wires  
Usage: Cable Granulator  
Project: Uniaxial crushing, Conveyor output  
Area: USA




Solid Waste: Aluminum Swarf  
Usage: Briquetting  
Project: Uniaxial crushing, Conveyor output  
Area: South Africa




Solid Waste: Steel sheet scrap  
Usage: Reduce Volume  
Project: Uniaxial crushing, Conveyor output  
Area: Korea




Solid Waste: Aluminum cans bale  
Usage: Resource reuse  
Project: Uniaxial crushing, Conveyor output  
Area: Canada




Solid Waste: PE Film  
Usage: Plastic reuse  
Project: Uniaxial crushing, Conveyor output  
Area: China



Solid Waste: waste foam  
Usage: baling, resource reuse  
Project: Uniaxial crushing, Conveyor output  
Area: Korea



Solid Waste: wood pallet  
Usage: wood pellet  
Project: Uniaxial crushing, Conveyor output  
Area: Australia



Solid Waste: PET bottles  
Usage: plastic reuse  
Project: Uniaxial crushing, Conveyor output  
Area: USA

Technical Information	MSA-F600	MSA-F800	MSA-F1000
Inlet Size mm	800×600	1300×800	1300×1000
Shaft Length mm	600	800	1000
Output Height mm	490	565	565
Ram Stroke mm	500	815	815
Movable Blade QTY pcs	23	35	45
Fixed Blade QTY pcs	4	4	4
Motor Power kw	18.5	37	45
Hopper Capacity l	760	1500	1760

Machine Size			
Length mm	1800	2800	2800
Width mm	1300	1800	2000
Height mm	1700	2100	2100
Gross Weight:kgs(approx)	1650	4000	1760

Optional			
Feeding Belt	YES	YES	YES
Output Belt	YES	YES	YES
Ex-protection	YES	YES	YES

Technical Information	MSA-F1200	MSA-F1500	MSA-F2000
Inlet Size mm	1300×1200	1300×1500	1675×2000
Shaft Length mm	1200	1500	2000
Output Height mm	565	565	720
Ram Stroke mm	815	815	1100
Movable Blade QTY pcs	55	70	95
Fixed Blade QTY pcs	6	6	8
Motor Power kw	55	75	55+55
Hopper Capacity l	1760	1760	5500

Machine Size			
Length mm	2800	2800	3700
Width mm	2500	2800	4200
Height mm	2100	2100	2500
Gross Weight:kgs(approx)	2030	2430	14500

Optional			
Feeding Belt	YES	YES	YES
Output Belt	YES	YES	YES
Ex-protection	YES	YES	YES



Single Shaft Shredder





# More demand, More growth

Enerpat provides professional recycling solutions and technical supports

## Plastic Lumps



## Plastic Pipes



## PE Film



## Cables



## Light metals



## Aluminum cans



## Waste paper



## Waste woods



## PET Bottles



## Wood pallet



## Aluminum swarf



## PCB



After the solid waste enters the single shaft shredder through the hopper, the pusher pushes the solid waste to the cutter shaft under the driving of the hydraulic cylinder. The rotation of the motor is transmitted to the reducer through the transmission of the belt. The operation of the reducer drives the cutter shaft to rotate, and the cutter is broken by the fixed cutter and the movable cutter, and the finished product conforming to the screen size is dropped by the screen. The movable knife is fixed on the seat of the cutter shaft by bolts. When the equipment is running, the feed material is shredded by the cutting and breaking of the movable knife and the fixed knife, and the gap between the movable knife and the fixed knife can be adjusted by adjusting the bolt. The shredded material particles are extruded through a screen, and the particle size of the discharge is determined by the mesh size of the screen.



### 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



### 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 V800-V1500 series for easy opening and access
- Star screen is available as an option for thin and/or flexible material such as film



### 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 V1200 and V1500
- Heavy duty reduction gearbox mounted directed onto the rotor shaft
- Shock absorbing gearbox mounting arrangement to reduce stress on drive components



### Bearing/Bearing Base

- The high-strength and high-quality bearings are independently installed on the outside of the box to prevent the materials in the crush box from entering the bearing.
- The overall machining of the bearing housing ensures the long service life of the bearing
- Knife Roll Water Cooling Device - When handling low melting point materials, water cooling device can be selected through the bearing block through the knife roll



### Control Panel

- Standalone electrical control panel with Siemens PLC control system and 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



### Hydraulic System

- Twin speed hydraulics, faster speed for backwards to maximize 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.



### Hydraulic press

- Hydraulic press is controlled by hydraulic system - mounted on the top of the chassis
- Mainly used for shredding large pieces, hollow materials
- Fully automatic control - automatic material feeding for continuous feeding