

Small to Medium Single Shaft Shredder

Ideal for general purpose size reduction of plastic waste and other materials.

Comet's CSS-SS series single shaft shredders have a smaller footprint and are suitable for shredding a wide range of materials to a uniform particle size. Input materials can be all types and forms of plastics such as purgings, rejected parts, trim scraps, plastic profiles and film; copper cables, confidential documents, production waste, packaging materials, used beverage cans, various textiles like carpet, etc.

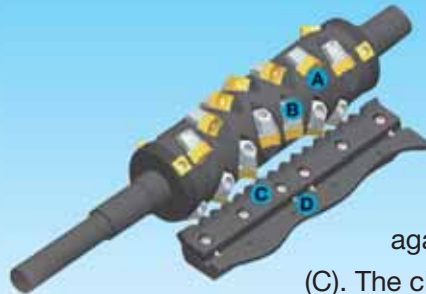
Throughputs typically range between 660-11,020+ lbs./hr. (300-5,000 kg/hr+) depending on the model, application, and material type.

Features

- Energy efficient coupled with maximum cutting force and productivity.
- Shock absorbing gearbox to reduce stress on drive components.
- Rotor knives can be rotated (4-ways) and used on all four edges before replacement.
- Long lasting counter knives can be adjusted to maintain cutter clearance.
- Quick change screens for accurate particle size control.
- Segmented shredding chamber floor with brass guides and PU slides.
- Twin speed hydraulics with integrated air cooler for continuous operation.
- Stand alone electrical control panel with Siemens PLC control system and Intelligent Programming (motor automatically reverses on overload and stops when the machine is idle).
- Manual and automatic controls for rotor direction and hydraulic force feeding device.
- Tested, approved, and certified to the applicable CE safety standards.



CSS-SS800



The rotor is equipped with rotor knives (A) screwed to the knife supports (B) to shred material against the counter knives (C). The clearance between the rotor knives and counter knives is maintained by adjusting the counter knives support screws (D).





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Rotor

- Chevron rotor design
- Rotor knives manufactured from special heat treated DC53 steel. Can be rotated and used on 4 edges before replacement
- Long life fixed blades can be adjusted to maintain cutter clearance
- Wear resistant coating



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Ram

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



2

Screen Basket

- Quick change screens for accurate particle size control (sizes 12-100mm)
- Safety limit switch fitted to screen access door prevents machine operation when access door is open
- Cylinder's access door opener mounted on CSS-SS800 - CSS-SS1500 series for easy opening and access



Bearings

- Oversized, high quality spherical shaft bearings are isolated from the cutting chamber to prevent product migration through grease seals
- Bearing housing machined integrally to ensure the longevity of the bearings
- Rotor water cooling



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 like wood shredding



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Drive System

- Electric drive motors configured for Star/Delta starting. Fluid coupling mounted on CSS-SS1200 and CSS-SS1500
- Heavy duty reduction gearbox mounted directly on the rotor shaft
- Shock absorbing gearbox mounting arrangement to reduce stress on drive components

Specifications

Model	CSS-SS500	CSS-SS600	CSS-SS800	CSS-SS1000	CSS-SS1200	CSS-SS1500
Dimensions (L x W x H) (mm)	1780 x 1192 x 1686	1780 x 1292 x 1686	2665 x 1760 x 2087	2665 x 1960 x 2087	2665 x 2500 x 2087	2665 x 2805 x 2137
Hopper Inlet (mm)	790 x 500	790 x 600	1300 x 800	1300 x 1000	1300 x 1200	1300 x 1500
Discharge Height (mm)	447	447	565	565	565	615
Ram (mm)	500	500	815	815	815	815
Rotor Diameter (mm)	φ220			φ400		
Rotor Operation Length (mm)	500	600	800	1000	1200	1500
Rotor Speed (RPM)	80	80	80	80	80	80
Screen (mm)	φ40	φ40	φ40	φ40	φ40	φ40
Rotor Knives (pcs)	19	23	35	45	55	70
Counter Knives (pcs)	4	4	4	4	6	6
Drive Power HP (kW)	20 (15)	25.75 (18.5)	49.50 (37)	60 (45)	73.75 (55)	100.50 (75)
Hydraulic Power HP (kW)	2 (1.5)	2 (1.5)	3 (2.2)	3 (2.2)	7 (5.5)	7 (5.5)
Hopper Volume (L)	660	760	1500	1760	2030	2430
Approx. Weight (kg)	~1500	~1650	~3650	~4250	~5050	~6300

We reserve the right to change specifications without prior notice.

