

## Large, Heavy-Duty Dual Shaft Shredder

**Designed to reduce large quantities of waste at low speed, high torque, and with minimum noise, dust and energy consumption.**

Comet's CSL-DS series dual shaft shredders are designed for continuous shredding of large quantities and volumes or when pre-shredding is required for further procedures. The design is based on a proven rotor-shearing/cutting principle – material is captured by the knife hooks, pulled in, and cut between the blades of the two opposing shafts. The two powerful cutting rotors can handle all materials, even those that are difficult to shred or are bulky and voluminous. Due to its slow rotation speed and high torque, the CSL-DS works at low noise and dust levels while achieving high throughput rates.

### Features

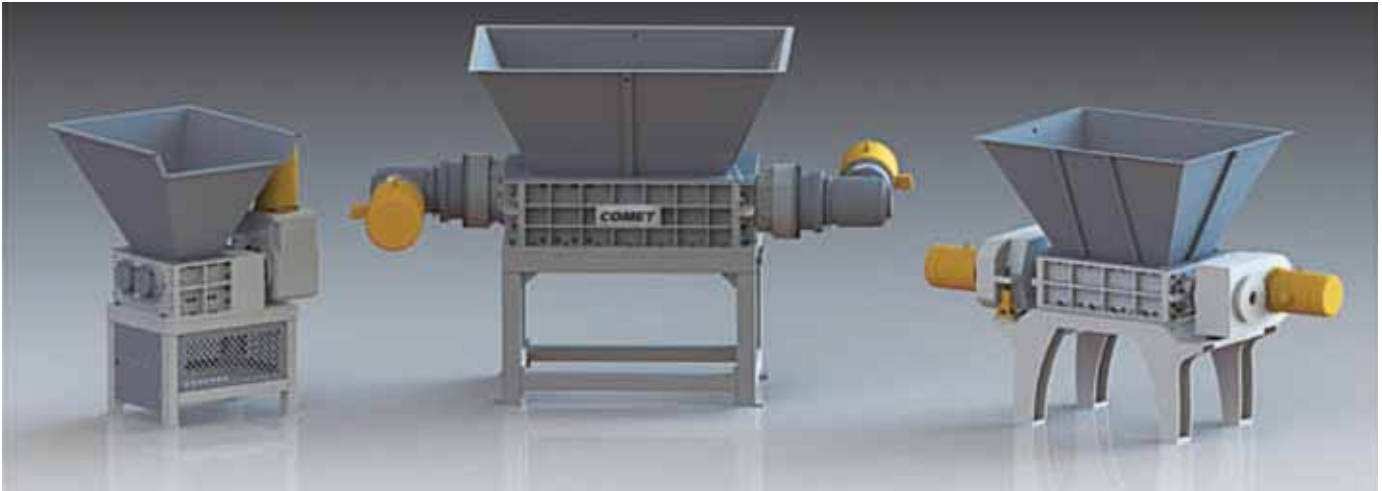
- Economical, rugged, low maintenance design using the proven rotor-shearing/cutting principle.
- Low power consumption and noise levels without creating dust and flying particles.
- Blades are manufactured from high quality steel, suitable for shredding tough materials and for extra long life.
- Side barrier walls and seals prevent fines, dirt, and dust from entering the bearings and gearboxes.
- Two piece, split bearing housing arrangement enables quick access to bearings and rotor.
- Shock absorbing gearbox mounting arrangement reduces stress on drive components.
- Adjustable sealing system prevents product migration and ensures a long bearing service life.
- Segmented shredding chamber floor with brass guides and PU slides.
- Stand alone electrical control panel with Siemens PLC control system.
- Auto reverse system for overload protection that automatically stops and reverses the shredding action in the event of a system overload.



***Tested, approved, and certified to applicable CE safety standards.***

### Typical Applications

- **Plastics:** purgings and films, extruded sheets, plastic drums, containers, truck and car tires
- **Electronic Waste or Scrap:** components, subassemblies and consumables
- **Waste:** production, medical, organic
- **Wood:** pallets, scrap wood
- **Paper & Packaging Materials:** paper/ cardboard, books, confidential documents
- **Metals:** lead, aluminum, copper, cable, barrels, sheet scrap
- **Textiles:** rags, garments, carpet



## Options



### Rotor Screen

Because shreds from dual-shaft shredders are irregular, a cylindrical rotor screen, placed around the cutting chamber, is used to control the size of the shred. The rotor screen runs at a low speed so any oversized shreds are returned to the cutting chamber for another shredding pass.



### Hydraulic Crammer

Shredding very large volumes of hollow materials, like drums, is difficult with small to medium shredders. A hydraulic crammer, mounted on the hopper, presses the material to the center of the chamber so the two rotors can cut large volumes of material easily and also helps with throughput and performance.



### Rotor Knives

Rotor knife selection is important for shredding different types of material. Cutting results depend on the blade thickness and number of hooks. The blade thickness controls the width of the fraction; the number of hooks controls the length.

## Specifications

Model	CSL-DS300	CSL-DS400	CSL-DS600	CSL-DS800	CSL-DS800T	CSL-DS1000	CSL-DS1200
Dimensions (LxWxH) (in)	57 x 42 x 69	62.5 x 42 x 73	100.75 x 42 x 73	111 x 42 x 73	115 x 73 x 86.5	123 x 73 x 86.5	131 x 73 x 86.5
Chamber Width (in)	19	19	19	19	30	30	30
Chamber Depth (in)	12	16	24	3	31	39	47
Blade Diameter (in)	11	11	11	11	17	17	17
Rotor Speed (RPM)	17	17	15	14	14.5	14.5	14.5
Number of Knives (pcs)	15	20	30	40	40	40	40
Drive Power (hp)	10	10	7.5 x 2	10 x 2	20 x 2	25 x 2	30 x 2
Hopper Volume (L)	480	550	650	750	950	1130	1360
Approx. Weight (lbs)	~2,866	~3,306	~4,850	~5,511	~9,480	~11,464	~14,115

We reserve the right to change specifications without prior notice.

