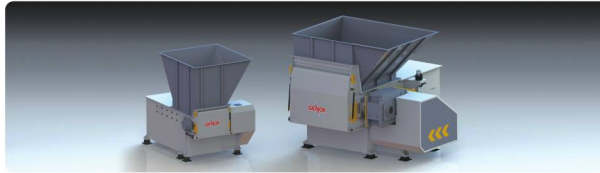


DESIGN & FEATURES

TECHNICAL DATA



| Model | V500 | V600 | V800 |
|-----------------------------|-----------------------|----------------------|-----------------------|
| Dimension L / W / H (mm) | 1,820 x 1,200 x 1,730 | 1,820 x 1,300 x 1730 | 2,800 x 1,780 x 2,080 |
| Hopper Inlet (mm) | 660 x 500 | 660 x 600 | 1,080 x 800 |
| Discharge Height (mm) | 490 | 490 | 565 |
| Ram Travel (mm) | 500 | 500 | 815 |
| Rotor Diameter (mm) | | Ø 220 | Ø 400 |
| Rotor Operation Length (mm) | 500 | 600 | 800 |
| Rotor Speed (rpm) | 80 | 80 | 80 |
| Screen (mm) | Ø 40 | Ø 40 | Ø 40 |
| Rotor Knives (pcs) | 19 + 4 | 23 + 4 | 35 + 4 |
| Counter Knives (pcs) | 2 + 2 | 2 + 2 | 2 + 2 |
| Drive Power (kW) | 15 | 18.5 | 37 |
| Hydraulic Power (kW) | 2.2 | 2.2 | 3.75 |
| Hopper Volume (litres) | 490 | 670 | 1,220 |
| Approximate Weight (kg) | 1,500 | 1,650 | 3,980 |

| Model | V1000 | V1200 | V1500 |
|-----------------------------|-----------------------|-----------------------|-----------------------|
| Dimension L / W / H (mm) | 2,800 x 1,980 x 2,080 | 2,800 x 2,500 x 2,130 | 2,800 x 2,750 x 2,130 |
| Hopper Inlet (mm) | 1,080 x 1,000 | 1,080 x 1,200 | 1,080 x 1,400 |
| Discharge Height (mm) | 565 | 565 | 565 |
| Ram Travel (mm) | 815 | 815 | 815 |
| Rotor Diameter (mm) | | Ø 400 | |
| Rotor Operation Length (mm) | 1,000 | 1,200 | 1400 |
| Rotor Speed (rpm) | 80 | 80 | 80 |
| Screen (mm) | Ø 40 | Ø 40 | Ø 40 |
| Rotor Knives (pcs) | 45 + 4 | 55 + 4 | 78 + 4 |
| Counter Knives (pcs) | 2 + 2 | 3 + 3 | 3 + 3 |
| Drive Power (kW) | 45 | 55 | 75 |
| Hydraulic Power (kW) | 3.75 | 5.5 | 5.5 |
| Hopper Volume (litres) | 1,440 | 1,660 | 1,880 |
| Approximate Weight (kg) | 4,290 | 5,300 | 6,680 |

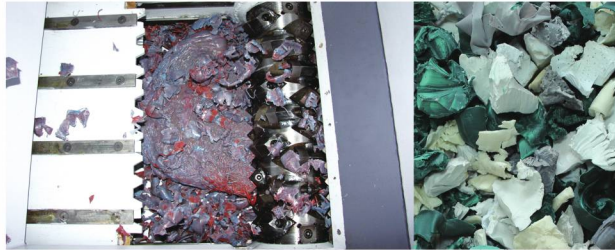
Please Note: Technical data provided is indicative only and may be subject to change without notice

VISION



V SERIES SINGLE SHAFT SHREDDERS

APPLICATIONS



V Series Single Shaft Shredders are small - medium size reduction machines suitable for processing a wide range of materials to a uniform particle size. The output products created can often be sold as is, or be sent for further processing through additional equipment (granulators briquetters etc). Throughputs typically range between 300kg/hr – 5,000kg/hr+ depending on the machine model, material type, screen size and application.



Typical applications for this versatile range of shredders include:

- Plastics – Mouldings, Purgings / Lump, Profiles, Films etc.
- Timber / Wood – Pallets, Joiners Waste, Green Waste etc.
- Paper & Cardboard – Confidential Documents, Production Waste, Packaging Materials etc.
- Copper – Household, Automotive, 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 Stocks etc.
- Foams – Production Waste, Insulation Materials, Product Fillings etc.

DESIGN & FEATURES



1 Rotor

- V-Cutting Rotor Design -- with staggered cutter positioning
- Heat Treated Rotor Knives -- special DCS3 steel (hardened) four edges use before replacement
- Long Life, Adjustable Fixed Blades -- cutter clearance can be maintained
- Wear Resistant (Optional) -- tungsten surface coating for abrasive applications



2 Classifier Screen

- Quick Change Screens -- accurate particle size control
- Access Door Limit Switch -- ensures safety of personnel
- Assisted Screen Opening -- on V800+ models for easier access
- Various Screen Designs -- specially developed screens for flexible materials such as films



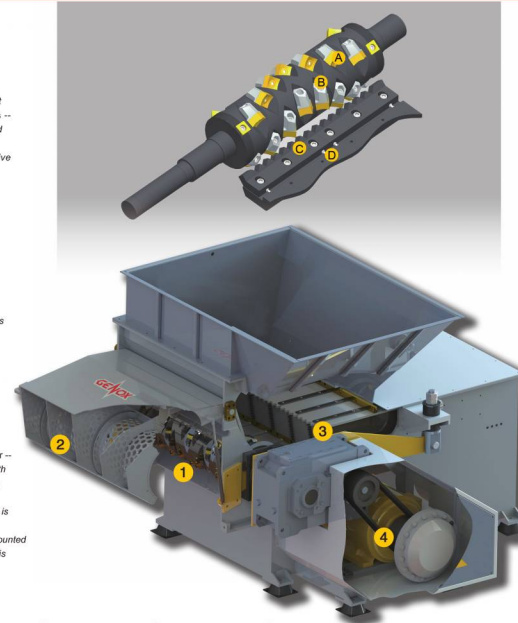
3 Force Feeding Ram

- Segmented Shredding Chamber Floor -- precision machined chamber base with adjustable / replaceable brass guides
- Ram Bypass Discharge Chute -- material that passes by the ram seals is automatically discharged to a single collection point, protecting the rear mounted hydraulic power unit from dust & debris



4 Driving System

- Powerful Electric Drive Motors -- configured for Star/Delta starting
- Heavy Duty, Oversized Gearboxes -- mounted directly on the rotor shaft
- Shock Absorption System -- reduces stress on drive components
- Fluid Coupling (V1200 & V1500 Models) -- improves performance and reduces current during start-up & reversals



Sectional View & Explanation of Functions

A force feeding ram (3) pressurized by the hydraulic unit (5) forces the material to be processed against the rotor shaft (1) which is powered by the drive system (4). The rotor is equipped with multiple knife inserts (A) screwed into the knife supports (B). These blades shred the material against the counter knives (C) as the shaft rotor turns. Clearance between the rotor knives and counter knives can be maintained by loosening the counter knives securing bolts and adjusting the position of the support screws (D). Shredded fractions, when small enough, fall through the classifier screen (2). Output product size is determined by the size of the holes in the classifier screen.



Bearings

- High Quality, Oversized Shaft Bearings -- spherical bearings mounted outboard from the cutting chamber to prevent product migration through the grease seals
- Integral Machined Bearing Housing -- ensures bearing reliability and longevity
- Rotor Shaft Cooling (Optional) -- water cooling of the rotor shaft through the bearing housing is possible



Hydraulic Power Unit

- Dual Speed Hydraulics -- adjustable forward speed, and fast return of the ram to maximise machine throughput
- Integrated Oil / Air Blast Cooler -- maintains the oil temperature for continuous operation and prolonged service life
- Isolation Cover (Optional) -- prevents build up of dust & debris on system components to ensure effective cooling.



Pre-Press (Optional)

- Hydraulic Controlled Pre-Press -- actively forces the feed material down into the shredding chamber and onto the rotor from above. Prevents material from bouncing, and therefore positively improves the shredding efficiency of the machines
- Automatic Operation -- automatic press and retract to allow continuous feeding of materials



Electrical Control Panel

- Stand Alone Control Cabinet -- incorporating Siemens PLC controller and Schneider & ABB components
- Dual Mode Operation -- "Manual" & "Automatic" modes for rotor motion and force feeding ram direction control
- Intelligent Programming -- auto-reverse during overload scenarios & auto-shutdown when idle for prolonged periods