



SHRED SERIES

Industrial Shredders

Overview

JWC Environmental's SHRED series are high efficiency, dual-shafted waste shredders. These shredders are perfect for wet or dry applications. They come in various sizes to fit any application whether large or small. They can be used to reduce the size of waste, grind down solids to improve process performance, or destroy expired or obsolete materials.

1-SHRED

The 1-SHRED is a compact shredder that is tough on solids. It fits into areas with limited space requirements, while still providing the necessary power to cut down tough food waste, small bones, or even occasional silverware. The 1-SHRED is an ideal, low-cost solution that perfectly fits into food and animal processing plants, hotels/casinos/restaurants, on ships, and a variety of other applications.

3-SHRED

The 3-SHRED easily reduces troublesome solids. Its design easily shreds tough solids that typically cause problems, including drill cuttings, fish/seafood waste, food waste, and much more.

4-SHRED-1 and 7-SHRED-1

The 4-SHRED-1 and 7-SHRED-1 are designed for the most difficult grinding jobs. Strong shafts and heavy duty seals allow for high impact solids loading, shredding these items down to size. These shredders have been proven in numerous applications including shredding for recycling, preconditioning of organics for waste-to-energy operations, hazardous waste disposal, seafood processing and destruction of off-specification or contraband products, just to name a few.

Features & Benefits

Dual-Shafted Shredder

- Low-speed, high-torque shredders handle rocks, wood, clothing, plastics, bone and various other materials.
- Capable of shredding a wider variety of solids than single-shafted machines and macerators.
- Require less maintenance than other technologies.

Compact and Efficient Design

- Adapts to many applications with little or no modification
- Custom stainless steel hoppers and stands allow easy installation in processing facilities.

Hardened Steel Cutters

- Standard cutters from 3mm - 36mm thickness.
- Standard cutters: 3, 7, 11, 13, 17 and 23 tooth.
- Can reduce solids down to 13mm or smaller particle size*.
- Custom cutters including stainless steel are available.

Automated Monitoring and Controls

- Auto load sensing and reversals reduce interrupts and optimize the shredder's performance.



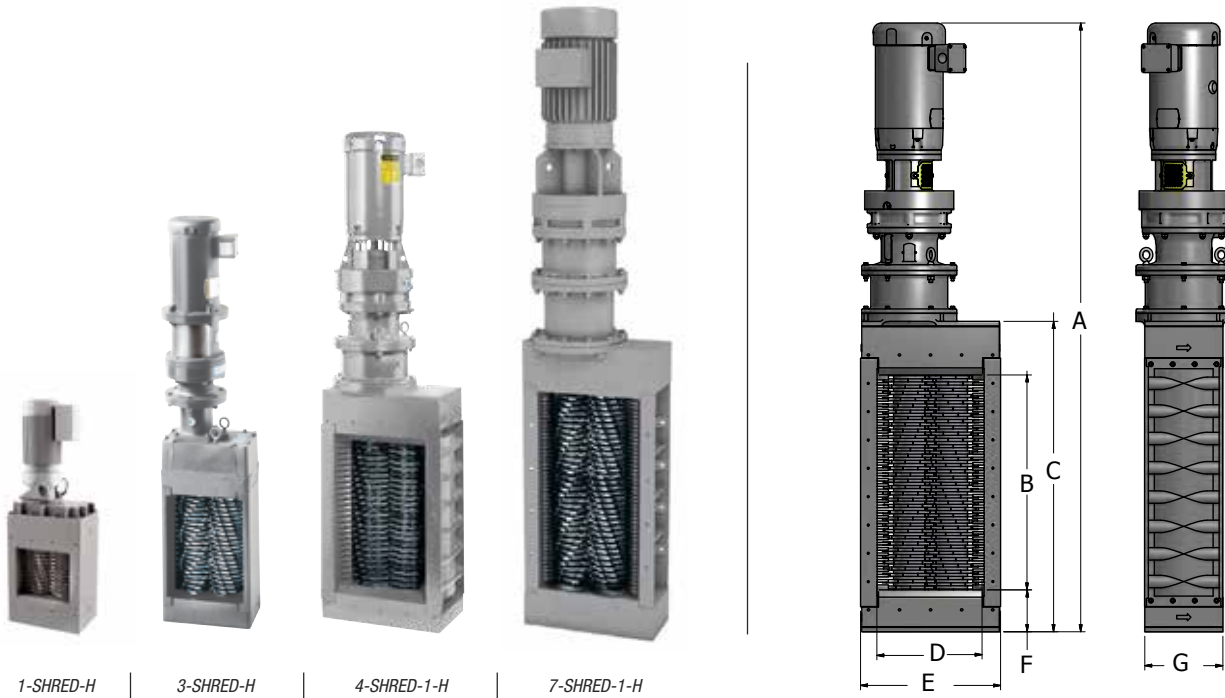
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*Particle size dependent on feed stock.

SHRED Models

Applications include:

- Food processing plants for food waste, including produce/animal/fish processing.
- On ships to meet MARPOL food waste disposal requirements.
- At facilities such as hotels, resorts, restaurants to reduce size of post-consumer food waste.
- Pre-conditioning of feedstock for waste to energy plants or biogas digesters.
- Product destruction of non-conforming consumer products.



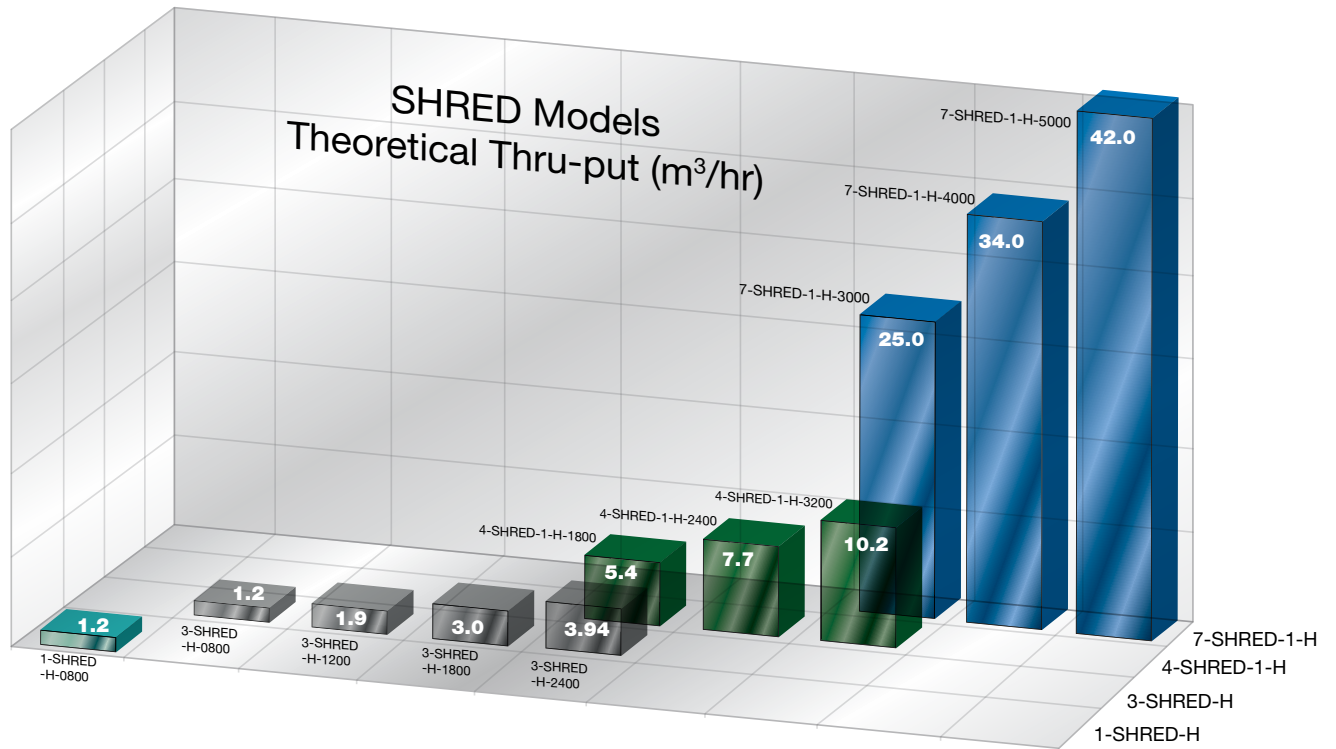
Shred Model	Thru-put m ³ /hr****	Standard Dimensions mm							Approximate Net Weight kg*****
		A	B	C	D	E	F	G	
1-SHRED-H-0800 ¹	1.2*	1124 ¹	185	474	220	305	114	210	143
3-SHRED-H-0800 ²	1.2*	1254 ²	203	495	216	298	86	178	150
3-SHRED-H-1200 ²	1.9*	1359 ²	305	600	216	298	86	178	168
3-SHRED-H-1800 ²	3.0*	1508 ²	457	746	216	298	86	178	193
3-SHRED-H-2400 ²	3.94*	1654 ²	609	895	216	298	86	178	218
4-SHRED-1-H-1800 ³	5.4**	1772 ³	457	768	371	502	114	279	892
4-SHRED-1-H-2400 ³	7.7**	1949 ³	610	946	371	502	114	279	976
4-SHRED-1-H-3200 ³	10.2**	2118 ³	813	1114	371	502	114	279	1068
7-SHRED-1-H-3000 ⁴	25.0***	2848 ⁴	772	1232	533	695	229	302	2563
7-SHRED-1-H-4000 ⁴	34.0***	3115 ⁴	1040	1499	533	695	229	302	2862
7-SHRED-1-H-5000 ⁴	42.0***	3339 ⁴	1262	6172	533	695	229	302	3084

Notes: * Gear Ratio 25:1. ** Gear Ratio 35:1. *** Gear Ratio 87:1. **** Actual thru-put depends on the type of material to be shredded. ***** Weight includes grinder & motor only.

• Consult factory for final analysis of application.

1. Drive dimensions are a maximum based on a unit with a TEFC 2.2 kW drive. | 2. Drive dimensions are a maximum based on a unit with a TEFC 4 kW drive.

3. Drive dimensions are a maximum based on a unit with a TEFC 11 kW drive. | 4. Drive dimensions are a maximum based on a unit with a TEFC 22 kW drive.



Note: Actual Thru-put depends on drive selection and type of material to be Shredded. Consult factory for final analysis of application.



4-SHRED-H with Custom Hopper and Discharge Chute



Shredding Food Waste



Customized Hopper Variations



- Solid Waste Reduction
- Waste to Energy



- Biogas Digester
- Waste To Energy
- Seed Destruction



- Fish Waste Grinding
- Solid Waste Volume Reduction



- Product Destruction
- Zero Waste / Recycling

Motor Options

Motors

- TEFC: Totally Enclosed Fan Cooled Electric
 - 1-SHRED: 1.5-2.2 kW drive
 - 3-SHRED: 1.5-4 kW drive
 - 4-SHRED-1: 11-30 kW drive
 - 7-SHRED-1: 22-75 kW drive
- ATEX: Explosion proof & IP68.

Hydraulic Power Packs

- Available for 3-SHRED: 11 kW



Optional Hydraulic Motors with or without a hydraulic power pack.



Standard Electric Motors

Cutters

- 3, 7, 11, 13, 17 and 23 tooth options.
- Special Cutter designs for unique needs.
- Cutter thickness range (3 - 36mm).
- Optional: stainless steel cutters.



7-Tooth



11-Tooth



13-Tooth



17-Tooth



23-Tooth

Custom Hoppers & Stands

- Custom made to fit application.
- Available in carbon steel, 304 stainless steel or 316 stainless steel.



Custom Hoppers



Custom Stands

Seal Types

- Rugged, industrial Mechanical Seals (1 & 3-SHRED).
- Heavy duty, high impact loading Lip Seals (4 & 7-SHRED-1).

PLC Machine Controllers

- Load sensing control system automatically reverse to clear jams.
- 1 & 3-SHRED Standard: IP65 enclosure with 3-position switch and status indicators.
- 4 SHRED-1 Standard: IP65 enclosure with 3-position switch, status indicators, disconnect and short circuit protection.
- 7-SHRED-1 Standard: IP65 stainless steel enclosure with Operator Interface Terminal (OIT), allows remote troubleshooting, hopper spray wash control, disconnect & short circuit protection.



Model PC2200 Standard Enclosure



Standard Scrapers

Scrapers

- Integrated steel scrapers increase throughput and help cutters clean-out faster. Standard for all SHRED models.
- Improves performance of hopper fed applications.



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