

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 and 3-SHRED-2

The 3-SHRED reduces troublesome solids. Its design easily shreds tough solids that typically cause problems, including drill cuttings, fish/seafood waste, food waste, and much more. The 3-SHRED-2 with its 10 hp motor and severe duty seals applies double the torque for those extremely tough applications.

4-SHRED-1 and 7-SHRED-1

The 4-SHRED-1 and 7-SHRED-1 are designed for the tougher and higher volume solids reduction applications. 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, 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 singleshafted 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

- Exclusive process produces cutters with a Rockwell Hardness of 45-52 HRC.
- Available in various thicknesses and tooth combinations to optimize particle output.
- Can reduce solids down to 1/2" 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.



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.

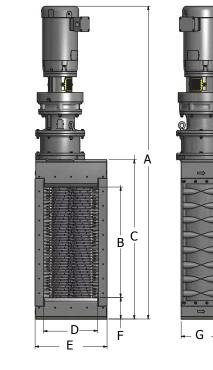


1-SHRED-H



3-SHRED-H 3-SHRED-2-H





Shred Model	Thru-put ft³/hr (m³/hr)****	Torque lb-ft (N-m)****	Standard Dimensions inches (mm)							Approximate Net Weight Ibs (kg)*****
		. ,	Α	В	С	D	E	F	G	
1-SHRED-H-08001	43* (1.2)	264 (358)	44-1/4 (1124) ¹	7-1/4 (184)	18-3/4 (476)	8-3/4 (222)	12 (305)	4-1/2 (114)	8-1/4 (210)	314 (143)
3-SHRED-H-0800 ²	43* (1.2)	436 (591)	48-5/8 (1235) ²	8 (203)	19-1/2 (495)	8-3/4 (222)	12 (305)	6-3/8 (162)	7 (178)	330 (150)
3-SHRED-H-1200 ²	70* (1.9)	436 (591)	53 (1346) ²	12 (305)	23-5/8 (600)	8-3/4 (222)	12 (305)	6-3/8 (162)	7 (178)	370 (168)
3-SHRED-H-1800 ²	105* (3.0)	436 (591)	59 (1499) ²	18 (457)	29-1/2 (746)	8-3/4 (222)	12 (305)	6-3/8 (162)	7 (178)	425 (193)
3-SHRED-H-2400 ²	140* (3.9)	436 (591)	65-1/8 (1654) ²	24 (609)	35-1/4 (895)	8-3/4 (222)	12 (305)	6-3/8 (162)	7 (178)	480 (218)
3-SHRED-2-H-18005	105* (3.0)	858 (1163)	68-7/8 (1749)⁵	18 (457)	30-5/8 (778)	8-1/2 (216)	12 (305)	6-1/4 (159)	7 (178)	665 (302)
3-SHRED-2-H-24005	140* (3.9)	858 (1163)	74-1/2 (1892)5	24 (609)	36-1/4 (921)	8-1/2 (216)	12 (305)	6-1/4 (159)	7 (178)	720 (327)
4-SHRED-1-H-1800 ³	190** (5.4)	1919 (2602)	69-3/4 (1772) ³	18 (457)	30-1/4 (768)	14-5⁄8 (371)	19-3/4 (502)	4-1/2 (114)	11 (279)	1966 (892)
4-SHRED-1-H-2400 ³	271** (7.7)	1919 (2602)	76-3/4 (1949) ³	24 (610)	37-1/4 (946)	14-5⁄8 (371)	19-3/4 (502)	4-1/2 (114)	11 (279)	2150 (976)
4-SHRED-1-H-3200 ³	361** (10.2)	1919 (2602)	83-3/8 (2118) ³	32 (813)	43-7/8 (1114)	14-5⁄8 (371)	19-3/4 (502)	4-1/2 (114)	11 (279)	2353 (1068)
7-SHRED-1-H-3000 ⁴	891*** (25.0)	7786 (10556)	112-1/8 (2848) ⁴	30 (762)	48-1/2 (1232)	21 (533)	27-3/8 (695)	9 (229)	11-7/8 (302)	5648 (2563)
7-SHRED-1-H-40004	1226*** (34.0)	7786 (10556)	122-5/8 (3115) ⁴	40 (1016)	59 (1499)	21 (533)	27-3/8 (695)	9 (229)	11-7/8 (302)	6308 (2862)
7-SHRED-1-H-50004	1504*** (42.0)	7786 (10556)	131-7/16 (3339)4	50 (1270)	67-13/16 (1722)	21 (533)	27-3/8 (695)	9 (229)	11-7/8 (302)	6798 (3084)

Notes: * Gear Ratio 29:1. ** Gear Ratio 43:1. *** Gear Ratio 87:1. **** Actual thru-put depends on the type of material to be shredded. ***** Weight includes grinder & motor only.

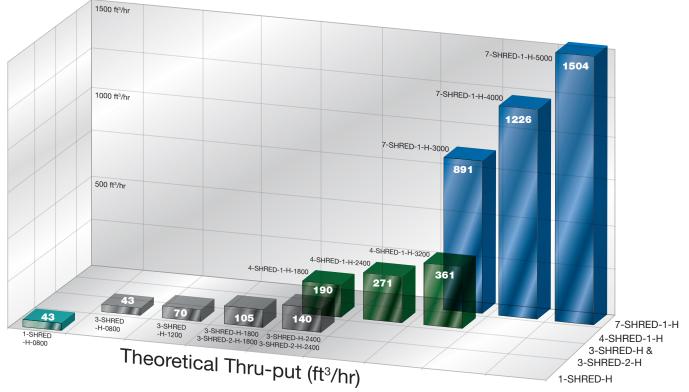
Consult factory for final analysis of application.

1. Drive dimensions are a maximum based on a unit with a TEFC 3 HP (2.2 kW) drive. | 2. Drive dimensions are a maximum based on a unit with a TEFC 5 HP (3.7 kW) drive.

3. Drive dimensions are a maximum based on a unit with a Severe TEFC 15 HP (11 kW) drive. | 4. Drive dimensions are a maximum based on a unit with a Severe Duty TEFC 30 HP (22 kW) drive.

5. Drive dimensions are a maximum based on a unit with a TEFC 10 HP (7.5 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



Solid Waste Reduction

• Waste to Energy



Shredding Food Waste



- Biogas Digester
- Waste To Energy
- Seed Destruction



Fish Waste Grinding

Solid Waste Volume Reduction



Product Destruction

• Zero Waste / Recycling



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Motor Options

Motors

- TEFC: Totally Enclosed Fan Cooled Electric
 - 1-SHRED: 2-3 HP (1.5-2.2 kW) drive
 - 3-SHRED: 3-5 HP (2.2-3.7 kW) drive
 - 3-SHRED-2: 10 HP (7.5 kW) drive
- Severe Duty TEFC: Severe Duty Totally Enclosed Fan Cooled Electric 4-SHRED-1 Drive: 15-40 HP (11-30 kW)
 - 7-SHRED-1 Drive: 30-100 HP (22-75 kW)
- XPFC: Explosion Proof Fan Cooled Electric

Hydraulic Power Packs

Available for 3-SHRED 15 HP (11 kW)

Cutters

- 3, 7, 11, 13, 17 and 23 tooth options.
- · Special Cutter designs for unique needs.
- Optional: stainless steel cutters.
- Through-hardened alloy steel and stainless steel.

Scrapers

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

Custom Hoppers & Stands

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

Seal Types

- Industrial Mechanical Seal Cartridges (1 & 3-SHRED).
- Severe Duty Mechanical Seal Cartridges (3-SHRED-2).
- High Impact Dry Seal Cartridges (4 & 7-SHRED-1).

MONSTER Industrial

PLC Machine Controllers

- · Load sensing control system automatically reverse to clear jams.
- 1-SHRED, 3-SHRED & 3-SHRED-2 Standard: NEMA-4X FRP enclosure with 3-position switch and status indicators.
- 4 SHRED-1 Standard: NEMA-4X FRP enclosure with 3-position switch, status indicators, disconnect and short circuit protection.
- 7-SHRED-1 Standard: NEMA 7 stainless steel enclosure with Operator Interface Terminal (OIT), allows remote troubleshooting, hopper spray wash control, disconnect & short circuit protection.





Custom Hoppers





Standard Scrapers



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Model PC2200

Standard Enclosure



Standard Electric

Motors



23-Tooth

Custom Stands



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Optional Hydraulic Motors with or



