

SHREDDERS FOR MARPOL-Compliant Waste Disposal

Overview

Garbage from ships can be just as deadly to marine life as oil or chemicals. The purpose of MARPOL Annex V is to reduce and eliminate the amount of waste being discharged into the sea from ships. In recent years, the International Maritime Organization (IMO) strengthened its MARPOL Annex V Resolution around food waste disposal. Annex V applies to all ships operating in the marine environment, from merchant ships to fixed or floating platforms such as oil rigs to non-commercial ships such as pleasure crafts and yachts.

Regulations require food waste to be ground to 1-inch (25 mm) chunks or smaller before disposal. Ground food waste can be discharged if the ship is three nautical miles or more from land and outside of defined "special areas" or 12 nautical miles or more from land if the ship is in a specially designated area. Although unprocessed food waste may be discharged beyond 12 nautical miles, it is recommended that grinders are utilized even at this distance as they hasten assimilation of waste into the marine environment.

JWC has helped numerous marine operators stay in compliance with its Monster Industrial® SHRED and HYDRO grinders. JWC's grinders have received multiple certifications from the American Bureau of Shipping (ABS) including a product Type Approval and a certification of compliance for meeting MARPOL Annex V. This aids designers in specifying Monster Industrial SHRED products and gives operators confidence in their compliance with regulations.

The Monster Industrial 1, 3 and 4 series grinder solutions are the most powerful available for ship-based food waste disposal. Two shafts of sharp steel cutters use slow-speed, high-torque power to slice through mountains of tough food waste including T-bone steaks, ribs, corn cobs, pineapples and whole chickens. It is also available in a packaged solution with the hopper, grinder, control panel and discharge tubing all designed and built by JWC to fit inside a compact corner onboard the vessel.

JWC's Monster Industrial food waste shredders, certified by the American Bureau of Shipping (ABS), support compliance with MARPOL Annex V food waste disposal requirements.

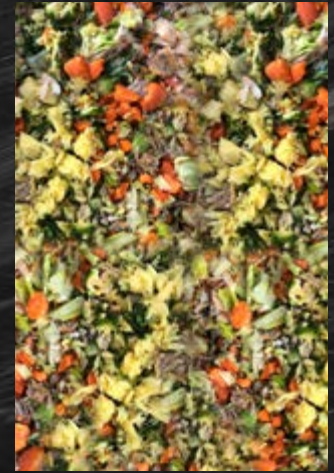


Benefits

- Fulfill requirements for onboard garbage management plan
- Shred tough debris to keep operations running smoothly
- If a grinder is used prior to compaction, the compaction ratio can be increased, and storage space decreased
- Shreds a wider variety of solids compared to single-shafted machines and macerators
- Load-sensing and reversal mechanism reduces interrupts and optimizes the shredder's performance
- Can be used with onboard solutions such as dehydrators and incinerators for faster, more efficient processing



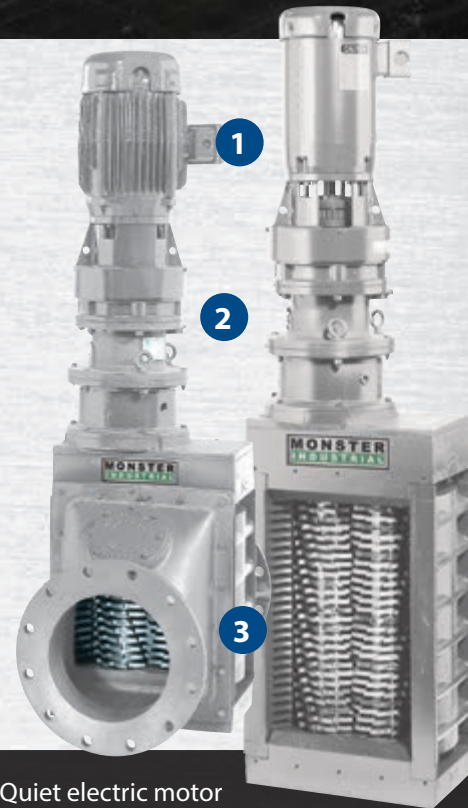
Before



After

Typical Applications

- Passenger ships including cruise lines and ferries
- Merchant vessels
- Offshore platforms
- Fish and seafood processing boats



- 1 Quiet electric motor
- 2 Gear reducer for slow-speed, high-torque cutting
- 3 Two rows of hardened steel cutters shred solids

- Automated PLC monitoring and control panels
- Custom hoppers and stands are available



JWC
Environmental®
A Sulzer Brand

Headquarters
2850 Red Hill Ave., Suite 125
Santa Ana, CA 92705 USA
toll free: 800.331.2277
phone: 949.833.3888
fax: 949.833.8858
email: jwce@jwce.com



www.jwce.com