

MONSTER INDUSTRIAL™



Shredded and compacted food waste is dropped into the disposal bin.

Monster Solutions

Hawaii Food Producer Takes Big Bite Out of Waste Costs with a Monster Grinder

By Cynthia Guardia - Cia Communications, Inc.

Honolulu, Hawaii – HPC Foods, Ltd. is one of Hawaii's largest food manufacturers and distributors. Faced with escalating waste disposal haul-away costs, the company sought out a new solution with the 3-SHRED-H – a giant food waste processing grinder that literally chewed HPC's disposal costs in half.

Founded in 1946, HPC Foods produces a variety of products for the Taro Brand label, including poi, sprouts, cut fruits and vegetables. HPC also distributes various local and mainland products from its Oahu operation. The company's 13,000 square foot Produce Processing Center houses food manufacturing operations for both food service and retail customers. During the processing of the fresh produce crops, all trimmings are cut off and put into a barrel for disposal. A contracted company then hauls away the barrels of food waste for disposal. HPC's usage had reached 60 barrels a day.

"That number was really getting crazy," says Paul Tottori, Vice President of Maintenance and Operations. "Once we hit 60 barrels a day, the cost added up very quickly. We were just going through too many of them and knew we had to find a way to cut costs. So we began looking for compacting and size reduction solutions."

As a first step in improving the situation, HPC installed a screw compactor that would take the whole waste product and compact it. The problem with this method was that there was still some space throughout the waste product. The compactor alone was not enough. The next step in seeking a solution was to reduce the waste size.



PROBLEM: Escalating waste disposal haul-away costs

SOLUTION: 3-SHRED-H dual-shafted waste grinder

Tottori researched grinders online and saw JWCE's attention-getting silver Monster. He quickly realized that this is where the company needed to go. HPC selected the 3-SHRED-H dual-shafted grinder. The Monster features low-speed and high torque. The dual shafts offer more power than standard models and is capable of grinding a wider variety of solids than single shafted machines and macerators. The unit's sharp steel cutter teeth shred virtually any material it come across.

Once the Monster was installed and tested, Tottori then mated the compactor and the grinder together, resulting in the desired solution. The Monster first provides size reduction. Then the waste goes through the compactor where more free water is squeezed out of the product for optimum compression. From there, waste goes into barrels and is ready for disposal.

Using the compactor and the 3-Shred-H together proved to be the ideal solution and far exceeded expectations. "We ended up with a 50% reduction in waste handling, basically cutting barrel usage from 60 per day to about 30," explains Tottori. "We had wanted to reduce the waste handling by as much as we could. Initially, I was looking for a reduction of half, but I would have been happy with 25%!"

In addition to the significant savings in disposal costs, the new system also saves time. Previously the disposal method was a two-man operation. All the trimmings were cut off from the fresh crop and put into a clean barrel. The barrels

The 3-SHRED-H is considered one of the most reliable pieces of equipment in food waste and recycling industries



would be moved outside the processing area and loaded up onto a barrel dumpster, which was attached to the forklift. Disposal barrels could not be brought into the processing area because of contamination. One worker lifted up the clean barrel to a second worker who dropped it into the disposable barrels. This waste handling process would be performed every half hour on average.

Under the new system, only one person is needed in the waste handling process. That person puts the waste into smaller, 30-pound totes that can be stacked up on a dolly. He then rolls it out and dumps it into the reducing and compacting process. Once that's complete, the waste goes into barrels for haul away.

The more compact waste not only lowers disposal costs, as less waste material and water are sent to the landfill, but also keeps odors to a minimum and reduces waste handling labor. "Bottom line, it's cost savings – that's the benefit to the company," says Tottori.

Future plans

Based on the success of the new waste reduction solution, HPC plans to further expand this idea to their wastewater product operation. A drop-in grinder will be installed in the trench drains. Whatever ends up in the wastewater trench will get ground up and sent off to the common sump where it will be pumped, screened and conveyed to the sewer.

About HPC Foods, Ltd.

HPC Foods, Ltd. was founded in 1946 by Kakuichi Tottori as Honolulu Poi Company. It started as a small poi milling operation with 3 employees and has grown to be one of the state's largest poi manufacturers and a leader in the development of taro products. For more information, contact HPC Foods, Ltd., 288 Libby Street, Honolulu, Hawaii 96819, USA, Tel: (808) 841-8705, Toll Free: (877) 370-0919, Fax: (808) 842-1084, Web: www.hpcfoods.com, Email: email@hpcfoods.com

About JWC Environmental

Founded in 1973, JWC Environmental is a global leader in high-efficiency, dual-shafted waste grinders. We've built and shipped over 35,000 Monster shredders, screens and com-

action systems to customers around the world. We offer over 200 different shredder configurations. Our commitment to quality and reliability makes Monster grinders legendary in many industries.

Our line of HYDRO grinders are designed to reduce the size of solids in a liquid solution. Our SHRED series is built for reducing tough solids in wet or dry hopper fed systems. Our team will find, or custom build, the Monster Industrial shredder that's right for your application. Don't waste it – grind it with Monster Industrial. For further information contact JWC Environmental, 290 Paularino Ave., Costa Mesa, CA 92626, USA, Tel: 949-833-3888, Toll-free 800-331-2277, Fax: 949-833-8858, Web: www.jwce.com, E-mail: jwce@jwce.com.



The 3-SHRED-H chomps down on food processing waste material



JWCE's Monster chewed-up HPC's food waste, cutting costs by 50%

"We ended up with a 50% reduction in waste handling... with the integration of the 3-SHRED-H"



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