

Vertical High-speed Rotary Pulverizer

Specially Developed Pulverizer for Treating Waste

Features

- This is a vertical-type pulverizer that can dispose of a wide range of waste. It features a simple construction and uses gravity feed.
- Thanks to its high-speed rotation, the equipment generates a large volume of discharged air and avoids the accumulation of gas that might cause an explosion.
- The direction of rotation of the equipment can be changed at the flip of a switch and only the worn or damaged parts of the hammer need to be replaced.

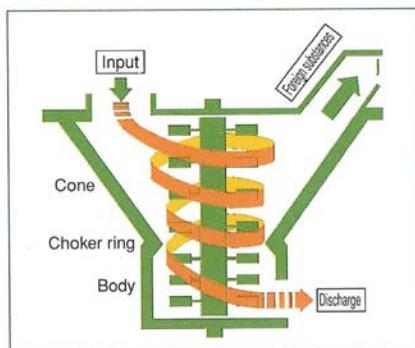


Image of Pulverizing Process



Hammer Assembly of Type-58 Pulverizer

Overview (Technical principles, operations, etc.)

Handles a Wide Range of Waste

Any waste material that is loaded into the upper part of the equipment is gravity fed through the conical section and roughly crushed.

Foreign materials that cannot be crushed are removed naturally from the equipment via the ejection outlet.

The waste material is finely pulverized in the choker ring section where the space between the hammer and inner wall is narrowest. The waste material is further pulverized between the hammer and body liner at the bottom of the equipment and then discharged from the outlet.

Waste loaded into the upper part is pulverized in steps, so no supply feeder to control the feed rate, or prior crushing of bulky material to reduce the volume of the waste, is required.



Kyokuto-Tremache Type-58 Pulverizer

Extremely Safe

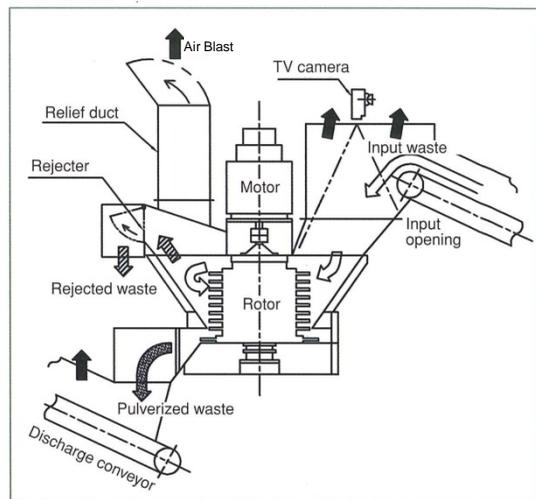
The overwhelming cause of pulverizer explosions is the ignition of combustible gas that has accumulated inside the machine. The hammer of the Kyokuto-Tremache Type-58 Pulverizer rotates at high speed and generates large air current discharges, thus ensuring that the interior is well ventilated.

The structure of the pulverizer resembles a fan and is one of the features of this equipment.

Operability and Maintainability

The direction of rotation of the equipment can be changed at the flip of a switch, which makes it possible to use both edges of the hammer and liner evenly. In addition, a TV camera can be used to monitor the interior of the equipment, making it possible to understand the pulverization of the waste and enable the early detection of problems such as fires thus allowing the equipment to be operated safely.

The hammer, which is the part of the equipment that suffers the most noticeable wear, consists of a hammer arm and a hammerhead that are joined by a hammer peg. Only the hammer head needs to be replaced when it becomes worn making the equipment easy to maintain and economical.



Construction Diagram of Pulverizer

Extremely Mobile Lineup

- The equipment can be trailer-mounted, moved to a waste site, and the installation can be completed in a minimum of three days.
- Equipped with a diesel generator, can be operated independently even where there is no power. In addition, it also supports an external power supply.



Transportation State



Set up for Operation State

Introductory Track Record

- In Japan over 135 units of the “Kyokuto-Tremache Pulverizer” have been installed.
- In China installation of the “Kyokuto-Tremache Pulverizer” started in 2012.

Effects

Low Cost and Energy Saving

The pulverizer does not require incidental equipment, such as vibrating conveyors, feeders, or anti-vibration devices, thus reducing initial installation costs. Furthermore, the running cost is low and energy savings can be realized because the equipment is able to use a low-capacity motor for the following reasons .

- (1) Waste is finely pulverized in steps, which is unlikely to cause temporary mechanical overloads.
- (2) Waste is gravity-fed through so no extra power is required to stir it.
- (3) Running costs for the incidental equipment are not incurred.

Furthermore, only the worn head part of the hammer needs to be replaced, which ensures that the maintenance of the equipment is economical.

Inquiries

Kyokuto Kaihatsu Kogyo CO., Ltd.

Environmental Plant Division, Sales Department

<http://www.kyokuto.com/>

E-mail z-ktp@kyokuto.com

6-1-45 Koshienguchi, Nishinomiya-shi, Hyogo 663-8545 Japan

TEL +81-798-66-1010 FAX +81-798-66-3432